

Six Monthly EC Compliance Report



GHARDA CHEMICALS LIMITED

**Plot No: 3525, 3512 –A, GIDC Estate Panoli – 394 116
Gujarat, India**

Environment Clearance Compliance Report for the period

April 2024 to September 2024



SIX MONTHLY ENVIRONMENT CLEARANCE (EC)

CONSOLIDATED COMPLIANCE REPORT

(April 2024 to September 2024)

Submitted to:

PARIVESH

The Ministry of Environment, Forests & Climate Change



GHARDA CHEMICALS LIMITED

PROGRESS THROUGH INNOVATIVE PRODUCTS & SERVICES

P.B. No.: 20, Plot No. 3525 & 3512-A, GIDC Estate, Panoli - 394 116. Dist.: Bharuch, Gujarat (India)
Tel : + 91-2646-272152, 272386 Fax : +91-2646-272186
Web : www.ghardapigments.com Web : www.gharda.com
CIN - U24110MH1967PLC013688



Date: 03/12/2024

To,
The Chief Conservator of Forest (Central)
The Ministry of Environment, Forests & Climate Change
Regional Office, Western Region,

Sub: Six Monthly Compliance Report of period (April- 2024 to September-2024)

Respected Sir,

We have submitted duly filled datasheet for Six Monthly EC Compliance Report (April- 2024 to September-2024) for implementation of stipulated conditions of our Environment Clearance (No. SEIAA/GUJ/EC/5(f)/678/2018) dated 30.06.2018 together with point wise compliance status of various stipulations.

Yours faithfully,

M/s. Gharda Chemicals Ltd.

Authorized Signatory.

Encl: Six Monthly Compliance Report (April- 2024 to September-2024)

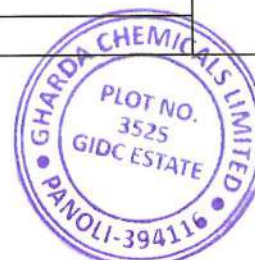
Six Monthly EC Compliance Report

ANNEXURE LIST

Sr. No	Annexure	Content	Page No.
1	Annexure 1	Solvent Recovery Data	39
2	Annexure 2	LDAR SOP	41
3	Annexure 3	Details of Hazardous Waste Management	44
4	Annexure 4	ETP/STP/RO/MEE Block Diagram	48
5	Annexure 5	Form No. 37	52
6	Annexure 6	Flue Gas and Ambient Air Monitoring Report	54
7	Annexure 7	Hazardous waste disposal details	57
8	Annexure 8	List of First Aid Boxes & Location	58
9	Annexure 9	Noise Monitoring report	59
10	Annexure 10	Membership Certificate	60
11	Annexure 11	PLI Policy/PESO License Copy	63
12	Annexure 12	Fire and Safety Details	66
13	Annexure 13	Chemical storage Tank details	67
14	Annexure 14	Module Of Safety Training	68
15	Annexure 15	Form Nos. 32 & 33	69
16	Annexure 16	Factory License Copy	71
17	Annexure 17	CSR Activity	72
18	Annexure 18	Press Notice	73
19	Annexure 19	Process stack details	74
20	Annexure 20	Flue gas stack details	75
21	Annexure 21	Environment Audit Report submitted to GPCB	76
21	Annexure 22	GPCB CCA	77
22	Annexure 23	Allocation made for environmental management plans	90

Photograph List

Sr. No	Photograph	Content	Page No.
1	Photo -1	Solvent Storage area	92
2	Photo -2	Double Earthing pump	
3	Photo -3	Breather Valve	
4	Photo -4	Close System SFD	
5	Photo-5	Reflux Condenser	93
6	Photo -6	Mechanical seal pump	
7	Photo-7	First Aid Box	
8	Photo-8	Exit and entry Board	94
9	Photo-9	Dyke wall	
10	Photo-10	PPE Cabinet	
11	Photo-11	Pucca Flooring	
12	Photo-12	Green Belt	



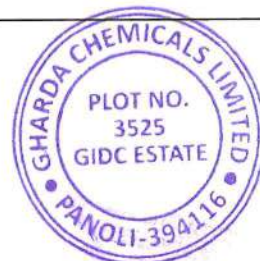
Forved,

Six Monthly EC Compliance Report

Part - 1

From: 01.04.2024 to 30.09.2024

1	Project Type : River-Valley / Mining Industry / Thermal / Nuclear / other (Specify)	:	Industry (Pigments, Intermediate and Polymers) :(Sch. 5(f) Cat. B)
2	Name of the Project	:	Expansion in manufacturing of 'Synthetic Organic Chemicals (Pigments, Intermediate and Polymers)' plant at Plot No. 3525 & 3512-A, Notified GIDC Industrial Estate, Panoli, Pin 394116 Dist.-Bharuch. Gujarat
3	Clearance Letter(s)/ OM No. & Date	:	SEIAA/GUJ/EC/5(f)/678/2018 dated 30-06-2018
4	Location		
	a]. District (s)	:	Bharuch
	b]. State (s)	:	Gujarat
	c]. Latitude / Longitude	:	21.5463/ 72.9849
5	Address for Correspondence	:	Plot No. 3525 & 3512-A, Notified GIDC Industrial Estate, Panoli, Pin. 394116 Dist.-Bharuch. Gujarat
	a]. Address of Concerned Project Chief Engineer with Pin code & Telephone / Telex / Fax Numbers.	:	Mr. Bikas S Phaujdar (Site Head) Ph. : 02646 672202, Mobile – 9913861744



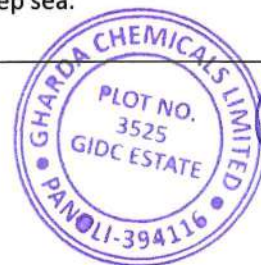
Handwritten signature

Six Monthly EC Compliance Report

	b]. Address of Executive Project Engineer / Manager (with Pin code / Fax Number)	:	Mr. Bikas S Phaujdar (Site Head) Ph. : 02646 672202, Mobile – 9913861744
6	Salient Features		
	a]. Of the Project	:	Expansion in manufacturing of 'Synthetic Organic Chemicals (Pigments, Intermediate and Polymers) Manufacturing Unit from present capacity of 68.3 MT/Month to 1088.3 MT/Month. Please refer Part - A
	b]. Of the Environmental Management Plans	:	Adequate environment protection facilities are provided along with experienced staff to comply with the applicable norms and preserve the environment. Please refer Part- B.

A. Salient Features of project:

Components	:	Proposed Scenario
EC No.	:	SEIAA/GUJ/EC/5(f)/678/2018 dated 30-06-2018
Environmental Clearance accorded for -	:	Expansion in manufacturing of 'Synthetic Organic Chemicals (Pigments, Intermediate and Polymers) Manufacturing Unit from present capacity of 68.3 MT/Month to 1088.3 MT/Month.
Power Requirement	:	3000 KVA
Source of Power	:	Dakshin Gujarat Vij Co. Ltd.
Fresh Water requirement	:	In CTO: GPCB has granted Consent to Operate (CTO) Amendment no. AWH-121537 on 20 th September 2022 Copy of the same attached as Annexure- 21 . Water Consumption as per CTO is: Domestic :45 Kl/Day Industrial :1223 Kl/Day Gardening: 35 Kl/Day Total: 1303 Kl/Day.
Source of Water Supply	:	GIDC water supply
Wastewater Generation	:	Existing 286 KLD with Primary, Secondary & Tertiary treatment. Treated effluent from ETP is discharged into u/g pipeline connected to FETP of M/s. NCT for final disposal in deep sea.



Handwritten signature

Six Monthly EC Compliance Report

		<p>In CTO: GPCB has granted Consent to Operate (CTO) Amendment no. AWH-121537 on 20th September 2022 Copy of the same attached as Annexure- 21. Waste water generation as per CTO is: Total: 545 KLD (existing 286 KLD + 259 KLD Recycled)</p> <p>a. Domestic: 46 KLD b. Industrial: 606 KLD (Discharged 286 KLD + 259 KLD Recycled)</p> <p>Mode of disposal of Effluent:</p> <p>a) Existing 286 KLD industrial effluent discharged to NCT pipeline. b) 40 KLD domestic sewage shall be treated in STP (cap-110 KLD) & treated water shall be utilized for green belt maintenance. c) 259 KLD effluent generated from process will treated in upgraded ETP/MEE and will be recycled to maintain ZLD condition. d) Boiler blowdown & cooling tower blowdown will reused in process washing.</p>
Process Emissions	:	As per Annexure – 19 (List of Process stack)
Flue Gas Emission	:	As per Annexure – 20 (List of Flue gas emission stack)

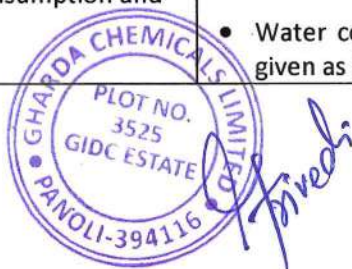


Handwritten signature

Six Monthly EC Compliance Report

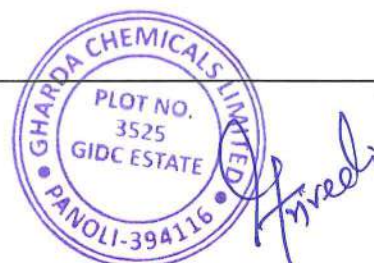
Environment Management Plan:

Sr. No.	Activity	Status																												
A	Formation of EHS cell Constitutes EHS in charge, ETP supervisors and operators, Lab chemist and assistants	Company for EHS cell recruits EHS staff. Site Head, Vice President- Environment & sustainability, (Corporate) Head – Environment Environment Engineer: 03 Officer:05 Lab Chemist: 03 Plant operator: 08 Plant Helper: 11																												
B	For Air Environment Management <ul style="list-style-type: none"> • To monitor the ambient air quality parameters and flue gas emissions within premises and in the nearby area regularly and to compare with the regulating standards so that any necessary corrective actions can be taken. • Work place monitoring to be carried out periodically to check fugitive emissions, if any. • To develop and maintain greenbelt, in and around the factory, for reducing the effect of air pollutants due to their deposition. • To follow proper loading and unloading practices to minimize dusting. • To maintain proper record for the fuel consumption, start-up time and duration of boiler operation towards energy conservation 	<ul style="list-style-type: none"> • Company maintains its own records and monitoring is done by NABL and Moef & CC approved laboratory (M/s. Aqua Air) appointed by Company. All parameters are within the limits. • Form-37 maintained regularly. • Green Belt area 33% is provided and maintained in and around the company. As per Photo - 12. • Closed material handling system is provided for the solid raw material. • Fuel consumption data are given as below: <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Month</th> <th>Coal Consumption (MT)</th> <th>Natural Gas Consumption (Nm3)</th> <th>HSD Consumption (Liter)</th> </tr> </thead> <tbody> <tr> <td>Apr-24</td> <td>815.54</td> <td>47052</td> <td>2802</td> </tr> <tr> <td>May-24</td> <td>1066</td> <td>56480</td> <td>168</td> </tr> <tr> <td>Jun-24</td> <td>861.245</td> <td>123859</td> <td>2019.82</td> </tr> <tr> <td>Jul-24</td> <td>1031.525</td> <td>64366</td> <td>268</td> </tr> <tr> <td>Aug-24</td> <td>937.145</td> <td>57007</td> <td>13053</td> </tr> <tr> <td>Sep-24</td> <td>1003.7</td> <td>60788</td> <td>17106</td> </tr> </tbody> </table> 	Month	Coal Consumption (MT)	Natural Gas Consumption (Nm3)	HSD Consumption (Liter)	Apr-24	815.54	47052	2802	May-24	1066	56480	168	Jun-24	861.245	123859	2019.82	Jul-24	1031.525	64366	268	Aug-24	937.145	57007	13053	Sep-24	1003.7	60788	17106
Month	Coal Consumption (MT)	Natural Gas Consumption (Nm3)	HSD Consumption (Liter)																											
Apr-24	815.54	47052	2802																											
May-24	1066	56480	168																											
Jun-24	861.245	123859	2019.82																											
Jul-24	1031.525	64366	268																											
Aug-24	937.145	57007	13053																											
Sep-24	1003.7	60788	17106																											
C	For Water Environment Management <ul style="list-style-type: none"> • To investigate possibilities of water reuse and recycling for reducing water consumption and wastewater generation 	<ul style="list-style-type: none"> • Reuse and recycling options are implemented and continued. e.g. STP water is reused in Gardening. • Water consumption & Effluent Generation data are given as below: 																												



Six Monthly EC Compliance Report

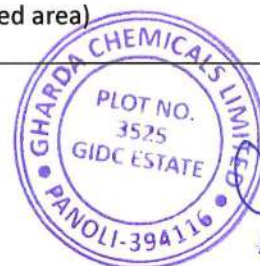
<ul style="list-style-type: none"> Records of water consumption, effluent generation, effluent discharge, water characteristics, treated and untreated effluent characteristics to be maintained. To monitor the adequacy and efficiency of ETP so that the effluent is given suitable treatment and the treated effluent meets specified norms of available CTO of GPCB The effluent collection and discharge drainages, effluent handling and treatment systems to be maintained and regularly monitored to prevent leakages or sudden breakdown. Proper housekeeping to be adopted to prevent spillages and contaminated surface runoff going to storm water drains. 	<table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th style="text-align: center;">Month</th> <th style="text-align: center;">Water Consumption (KL/M)</th> <th style="text-align: center;">Effluent Generation (KL/M)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Apr-24</td> <td style="text-align: center;">21351</td> <td style="text-align: center;">8978</td> </tr> <tr> <td style="text-align: center;">May-24</td> <td style="text-align: center;">25748</td> <td style="text-align: center;">11393</td> </tr> <tr> <td style="text-align: center;">jun-24</td> <td style="text-align: center;">23123</td> <td style="text-align: center;">11862</td> </tr> <tr> <td style="text-align: center;">Jul-24</td> <td style="text-align: center;">19596</td> <td style="text-align: center;">12197</td> </tr> <tr> <td style="text-align: center;">Aug-24</td> <td style="text-align: center;">17815</td> <td style="text-align: center;">10696</td> </tr> <tr> <td style="text-align: center;">Sep-24</td> <td style="text-align: center;">20850</td> <td style="text-align: center;">11368</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Record of the Treated effluent characteristics are maintained. Installed online TOC - TN meter, Temp., pH and flow meter in discharge line. ETP is operating efficiently and adequacy is verified and certified by GPCB Sh-1 Environment Auditor please refer annexure-21. Preventive maintenance of all EMS units is taken periodically and repairs are done immediately. Housekeeping is maintained regularly. 	Month	Water Consumption (KL/M)	Effluent Generation (KL/M)	Apr-24	21351	8978	May-24	25748	11393	jun-24	23123	11862	Jul-24	19596	12197	Aug-24	17815	10696	Sep-24	20850	11368
Month	Water Consumption (KL/M)	Effluent Generation (KL/M)																				
Apr-24	21351	8978																				
May-24	25748	11393																				
jun-24	23123	11862																				
Jul-24	19596	12197																				
Aug-24	17815	10696																				
Sep-24	20850	11368																				
<p>D For Hazardous / Non-hazardous waste management</p> <ul style="list-style-type: none"> Proper storage and handling arrangements in compliance to the conditions of authorization granted by SPCB. Proper signboards to be provided at relevant places. All the necessary regulatory procedures as per the amended Hazardous Waste Management & Handling Rules – 2016 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 	<ul style="list-style-type: none"> Proper storage and handling is done as per compliance conditions of authorization granted by SPCB – Photo No. – 1. Proper Sign Boards are provided in whole premises - Photo No.- 8 All necessary regulatory procedures are strictly followed as per amended Hazardous Waste Management & Handling Rules-2016. Transportation and disposal of hazardous waste is as per guidelines and GPCB – XGN. Form No.3, 4 & D2 (Monthly Patrak) are maintained regularly on GPCB XGN. 																					



Six Monthly EC Compliance Report

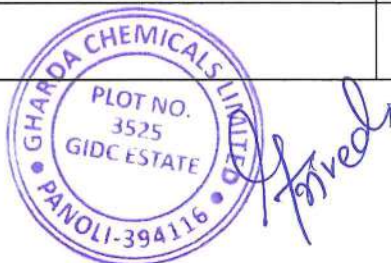
	format of Form-3 as per amended Hazardous Waste rules – 2016 and annual returns of disposal to be submitted to SPCB in prescribed Form – 4 and Form – 10	
--	--	--

7	Break Up of the Project Area	:	Project is located in Non-Forest area.
	a). Submergence area : forest & Non-forest		Plot No. 3525 & 3512-A, Notified GIDC Industrial Estate, Panoli, Dist.-Bharuch.
	b). Others		
8	Breakup of the project affected population with enumeration of those losing houses / dwelling units, only agricultural land, dwelling units & agricultural land & landless laborers / artisan.	:	Project site located in G.I.D.C Panoli so it is not applicable.
	a). SC, ST/ Adivasi	:	NA
	b). Others	:	NA
	(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)	:	NA
9	Financial Details:		
	a). Project cost as originally planned and subsequent revised estimates and the year of price reference	:	Original -Rs. 190 Cr, Supplemented val-Rs.56.20Cr, New - Rs.246.20 Cr.
	b). Allocation made for environmental management plans with item wise and year wise break-up.	:	Rs. 25 Lakhs spent on Solvent recovery systems.
	c). Benefit cost ratio / Internal rate of return and the year of assessment	:	---
	d). Whether (c) includes the cost of environmental management as shown in the above	:	----
	e). Actual expenditure incurred on the project so far	:	Rs. 232 Cr.
10	Forest land Requirement	:	Non Forest area - Unit is located in GIDC, Panoli (Notified area)



Six Monthly EC Compliance Report

	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 a forestation, if any	:	---
	d]. Comments on the viability & sustainability of compensatory a forestation programs in the light of actual field experience so far	:	---
11	The status of clear felling in non-forest areas (such as submergence area of reservoir, approach roads), if any with quantitative information.	:	Non Forest area - Unit is located in GIDC Panoli (Notified area)
12	Status of construction		
	a]. Date of commencement (Actual and / or Planned).	:	June 2018
	b]. Date of completion (Actual and / or Planned)	:	March 2025
13	Reasons for the delay if the project is yet to start	:	No delay.
14	Dates of site visits		
	a]. The dates on which the project was monitored by the Regional Office on Previous occasions, if any	:	The dates on which the Gujarat Pollution Control Board monitored the project on Previous occasions are as under, 28.06.2024. [Gujarat Pollution Control Board (GPCB)]
	b]. Date of site visit for this monitoring project	:	The dates on which the Gujarat Pollution Control Board monitored the project on Previous occasions are as under, 28.06.2024. [Gujarat Pollution Control Board (GPCB)]



Six Monthly EC Compliance Report

15	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	: No correspondence
	(The first monitoring report may contain the details of all the letters issued so far, but the later reports may core only the letters issued subsequently.)	: --



Six month EC Compliance report of April'23 to September'23

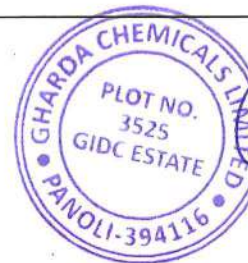
Compliance Report for Stipulated Conditions of Environmental Clearance

EC Order No. SEIAA/GUJ/EC/5(f)/678/2018 dated 30-06-2018

The proposal is for Environmental Clearance to M/s: Gharda Chemicals Limited for setting up of expansion in manufacturing of 'Synthetic Organic Chemicals (Pigments, Intermediate and Polymers)' plant at Plot No. 3525 & 3512-A, Notified GIDC Industrial Estate, Panoli, Dist.-Bharuch. It is an existing unit for manufacturing following products, which falls in the category-5(f) of the EIA Notification-2006.

➤ GPCB had approved amendment in consolidated consent & authorization no. 121537 on dated 20.09.2022.

Sr. no	Name of Product	Quantity as per EC	Quantity as per CTO	Actual Production (Avg. qty. MT/M)
		MT/MONTH		April'24 to September'24
1.	Gafast Pigment Violet 23	100	80	31.43
	Gafast Pigment Yellow 138			
	Gafast Pigment Violet 19			
	Gafast Pigment Red 122			
	Gafast Pigment Red 254 / 255			
	Gafast Pigment Yellow 139			
	Gafast Pigment Yellow 151 / 154			
2.	Pigment Violet-23	30	30	14.92
3.	Pigment Red	5.8	5.8	0
4.	Pigment Yellow	2.5	2.5	0
5.	Poly Ether Ketone(PEK)	50	10	0.98

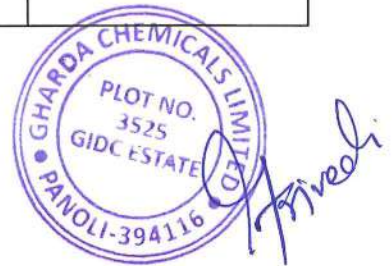


Handwritten signature/initials in blue ink.

GHARDA CHEMICALS LIMITED, PANOLI

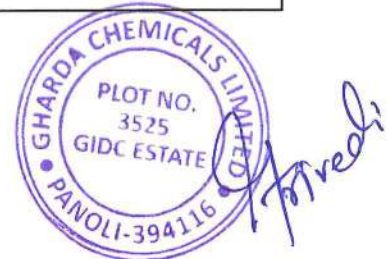
A CONDITIONS:		SPECIFIC CONDITION :		Compliance Status	
A.1					
1	Spent solvents (59595.15 MT/Month) shall be recovered by in-house distillation in such a manner that recovery shall not be less than 95 percent and recovered solvent shall be reused in the process.	Poly Ether Ketone Ketone(PEKK) Polybenzimidazole (ABPBI)	500	15	0.10
2	Unit shall comply all the conditions & recommendations mentioned in the guidelines for the management of the spent solvents published by GPCB in letter and spirit.	Poly ether sulfone (PES) Poly Sulfone (PSU) Polyphenyl Sulfone (PPSU)	200	10	0
3	Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines.	Chloranil	100	0	0
4	Entire quantity of Spent Acetic acid (360 MT/Annium), spent phosphoric acid (25848 MT/Annium), Ammonium acetate (510 MT/Annium), Sodium sulphate-10% (1372 MT/Annium), Sodium bisulfate (25-30%) (3386 MT/Annium), Calcium chloride-20-30 % (3832 MT/Annium), Aluminum Chloride 22% (4143 MT/Annium) and Calcium sulphate-92% (11917 MT/Annium) generated from the manufacturing	Di Methyl Succinyl Succinate(DMSS)	100	0	0
		Total	1088.3	153.3	47.44

Sr. No.	By Product	Name of End-user
1.	Phosphoric acid 18-22 %	M/s. Pharmavet Industries, GIDC Vapi. M/s. J J Corporation, Vapi. M/s. Thursday Chemicals, Vapi.

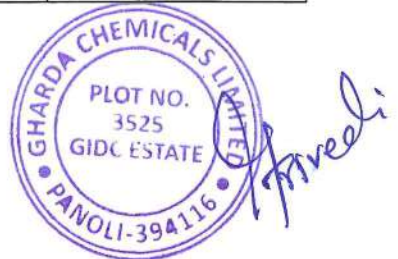


GHARDA CHEMICALS LIMITED, PANOLI

	<p>process shall be sold only to the potential users who are authorized under Rule 9 of the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 and its amendment time to time.</p>	<table border="1"> <tr> <td data-bbox="229 817 303 1164"></td> <td data-bbox="229 492 303 817"></td> <td data-bbox="229 163 303 492">M/s. Graddy Pharmachem, Ankleshwar.</td> </tr> <tr> <td data-bbox="303 817 343 1164">2.</td> <td data-bbox="303 492 343 817">Spent Acetic Acid</td> <td data-bbox="303 163 343 492">---</td> </tr> <tr> <td data-bbox="343 817 383 1164">3.</td> <td data-bbox="343 492 383 817">Ammonium Acetate 10%</td> <td data-bbox="343 163 383 492">---</td> </tr> <tr> <td data-bbox="383 817 422 1164">4.</td> <td data-bbox="383 492 422 817">Sodium sulphate-10%</td> <td data-bbox="383 163 422 492">---</td> </tr> <tr> <td data-bbox="422 817 462 1164">5.</td> <td data-bbox="422 492 462 817">Sodium bisulfite-28%</td> <td data-bbox="422 163 462 492">---</td> </tr> <tr> <td data-bbox="462 817 502 1164">6.</td> <td data-bbox="462 492 502 817">Calcium chloride- 20-30%</td> <td data-bbox="462 163 502 492">---</td> </tr> <tr> <td data-bbox="502 817 542 1164">7.</td> <td data-bbox="502 492 542 817">Aluminium Chloride-22%</td> <td data-bbox="502 163 542 492">---</td> </tr> <tr> <td data-bbox="542 817 550 1164">8.</td> <td data-bbox="542 492 550 817">Calcium Sulfate 92%</td> <td data-bbox="542 163 550 492">---</td> </tr> </table>			M/s. Graddy Pharmachem, Ankleshwar.	2.	Spent Acetic Acid	---	3.	Ammonium Acetate 10%	---	4.	Sodium sulphate-10%	---	5.	Sodium bisulfite-28%	---	6.	Calcium chloride- 20-30%	---	7.	Aluminium Chloride-22%	---	8.	Calcium Sulfate 92%	---				
		M/s. Graddy Pharmachem, Ankleshwar.																												
2.	Spent Acetic Acid	---																												
3.	Ammonium Acetate 10%	---																												
4.	Sodium sulphate-10%	---																												
5.	Sodium bisulfite-28%	---																												
6.	Calcium chloride- 20-30%	---																												
7.	Aluminium Chloride-22%	---																												
8.	Calcium Sulfate 92%	---																												
5.	<p>The unit shall submit the authorized end users of above-mentioned wastes along with MOU signed with them at least two months in advance prior to commencement of production. In absence of potential buyers of these items, the unit shall restrict the production of respective item.</p>	<p>Details of Hazardous Waste Management sheet attached and MOU are made with All end-users. Kindly refer as Annexure 3.</p>																												
6.	<p>Unit shall provide Continuous Emission Monitoring System [CEMS] and an arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB on real time basis.</p>	<p>We have installed CEMS on 15 TPH Coal fired boiler. CEMS connectivity given to online GPCB server.</p>																												
7.	<p>All measures shall be taken to prevent soil and ground water contamination.</p>	<p>RCC flooring is provided in process area to avoid ground water contamination. Separate storm water drain is provided.</p>																												
8.	<p>Unit shall not exceed waste water discharge quantity into CETP-FETP of M/s: NCT as mentioned in the existing CC&A.</p>	<p>Unit does not discharge exceed quantity to CETP NCT 286 KL/day. Month wise Discharge quantity is as below.</p> <table border="1"> <thead> <tr> <th data-bbox="1109 840 1165 1019">Sr. No</th> <th data-bbox="1109 660 1165 840">Month</th> <th data-bbox="1109 492 1165 660">Discharge Qty KL/Month</th> <th data-bbox="1109 302 1165 492">Discharge Qty KL/Day</th> </tr> </thead> <tbody> <tr> <td data-bbox="1165 840 1204 1019">1</td> <td data-bbox="1165 660 1204 840">Apr-24</td> <td data-bbox="1165 492 1204 660">7478</td> <td data-bbox="1165 302 1204 492">249</td> </tr> <tr> <td data-bbox="1204 840 1244 1019">2</td> <td data-bbox="1204 660 1244 840">May-24</td> <td data-bbox="1204 492 1244 660">8828</td> <td data-bbox="1204 302 1244 492">285</td> </tr> <tr> <td data-bbox="1244 840 1284 1019">3</td> <td data-bbox="1244 660 1284 840">Jun-24</td> <td data-bbox="1244 492 1284 660">8562</td> <td data-bbox="1244 302 1284 492">285</td> </tr> <tr> <td data-bbox="1284 840 1324 1019">4</td> <td data-bbox="1284 660 1324 840">Jul-24</td> <td data-bbox="1284 492 1324 660">8844</td> <td data-bbox="1284 302 1324 492">285</td> </tr> <tr> <td data-bbox="1324 840 1361 1019">5</td> <td data-bbox="1324 660 1361 840">Aug-24</td> <td data-bbox="1324 492 1361 660">8837</td> <td data-bbox="1324 302 1361 492">285</td> </tr> <tr> <td data-bbox="1361 840 1361 1019">6</td> <td data-bbox="1361 660 1361 840">Sep-24</td> <td data-bbox="1361 492 1361 660">8523</td> <td data-bbox="1361 302 1361 492">284</td> </tr> </tbody> </table>	Sr. No	Month	Discharge Qty KL/Month	Discharge Qty KL/Day	1	Apr-24	7478	249	2	May-24	8828	285	3	Jun-24	8562	285	4	Jul-24	8844	285	5	Aug-24	8837	285	6	Sep-24	8523	284
Sr. No	Month	Discharge Qty KL/Month	Discharge Qty KL/Day																											
1	Apr-24	7478	249																											
2	May-24	8828	285																											
3	Jun-24	8562	285																											
4	Jul-24	8844	285																											
5	Aug-24	8837	285																											
6	Sep-24	8523	284																											

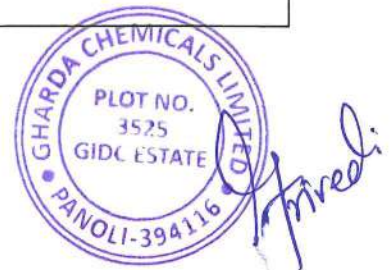


A.2	<p>WATER:</p> <p>Total Water requirement for the project shall not exceed 3515 KLD. Unit shall reuse 2065 KLD of wastewater (source of wastewater are domestic, processing + APCM, boiler, cooling and washing and its utilization area is processing and gardening) and hence, fresh water requirement shall not exceed 1450 KLD and it shall be met through GIDC water supply only. Prior permission from the concerned authority shall be obtained for withdrawal of water.</p>	<p>Complied. Fresh water consumption from April 2024 to September 2024 enclosed below.</p> <p>Following details are required: Total water consumption.</p> <table border="1" data-bbox="406 313 694 1030"> <thead> <tr> <th>Sr. No</th> <th>Month</th> <th>Water Consumption KL/Month</th> <th>Water Consumption KL/Day</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Apr-24</td> <td>21351</td> <td>712</td> </tr> <tr> <td>2</td> <td>May-24</td> <td>25748</td> <td>831</td> </tr> <tr> <td>3</td> <td>jun-24</td> <td>23123</td> <td>771</td> </tr> <tr> <td>4</td> <td>Jul-24</td> <td>19596</td> <td>632</td> </tr> <tr> <td>5</td> <td>Aug-24</td> <td>17815</td> <td>575</td> </tr> <tr> <td>6</td> <td>Sep-24</td> <td>20850</td> <td>695</td> </tr> </tbody> </table>	Sr. No	Month	Water Consumption KL/Month	Water Consumption KL/Day	1	Apr-24	21351	712	2	May-24	25748	831	3	jun-24	23123	771	4	Jul-24	19596	632	5	Aug-24	17815	575	6	Sep-24	20850	695
Sr. No	Month	Water Consumption KL/Month	Water Consumption KL/Day																											
1	Apr-24	21351	712																											
2	May-24	25748	831																											
3	jun-24	23123	771																											
4	Jul-24	19596	632																											
5	Aug-24	17815	575																											
6	Sep-24	20850	695																											
9.		<p>Following details are required: Wastewater recycle.</p> <table border="1" data-bbox="813 313 1125 1030"> <thead> <tr> <th>Sr. No</th> <th>Month</th> <th>Waste water recycle KL/Month</th> <th>Waste water recycle KL/Day</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Apr-24</td> <td>2163</td> <td>72</td> </tr> <tr> <td>2</td> <td>May-24</td> <td>2868</td> <td>93</td> </tr> <tr> <td>3</td> <td>jun-24</td> <td>3872</td> <td>129</td> </tr> <tr> <td>4</td> <td>Jul-24</td> <td>3848</td> <td>124</td> </tr> <tr> <td>5</td> <td>Aug-24</td> <td>3134</td> <td>101</td> </tr> <tr> <td>6</td> <td>Sep-24</td> <td>4353</td> <td>145</td> </tr> </tbody> </table>	Sr. No	Month	Waste water recycle KL/Month	Waste water recycle KL/Day	1	Apr-24	2163	72	2	May-24	2868	93	3	jun-24	3872	129	4	Jul-24	3848	124	5	Aug-24	3134	101	6	Sep-24	4353	145
Sr. No	Month	Waste water recycle KL/Month	Waste water recycle KL/Day																											
1	Apr-24	2163	72																											
2	May-24	2868	93																											
3	jun-24	3872	129																											
4	Jul-24	3848	124																											
5	Aug-24	3134	101																											
6	Sep-24	4353	145																											
10.	<p>The industrial effluent generation from the project shall not exceed 2338 KL/day after proposed expansion.</p>	<p>Complied. Effluent generation details from April 2024 to September 2024 enclosed below:</p> <table border="1" data-bbox="1228 313 1388 1030"> <thead> <tr> <th>Sr. No</th> <th>Month</th> <th>Qty KL/Month</th> <th>Qty KL/Day</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Apr-24</td> <td>8978</td> <td>299</td> </tr> <tr> <td>2</td> <td>May-24</td> <td>11393</td> <td>368</td> </tr> <tr> <td>3</td> <td>jun-24</td> <td>11862</td> <td>395</td> </tr> </tbody> </table>	Sr. No	Month	Qty KL/Month	Qty KL/Day	1	Apr-24	8978	299	2	May-24	11393	368	3	jun-24	11862	395												
Sr. No	Month	Qty KL/Month	Qty KL/Day																											
1	Apr-24	8978	299																											
2	May-24	11393	368																											
3	jun-24	11862	395																											



GHARDA CHEMICALS LIMITED, PANOLI

		4	Jul-24	12197	393		
		5	Aug-24	10696	345		
		6	Sep-24	11368	379		
Unit shall segregate industrial waste water as follows:							
11.	Effluent stream	Qty. in KLD	Treatment	Disposal	Segregation of wastewater and its treatment & disposal is being complied as per the conditions.		
	Effluent from pigment plant – for existing production capacity	286	Existing ETP	Treated effluent conforming to inlet norms of FETP as mentioned in CTO to be discharged a/g pipeline of GIDC for conveying to FETP of M/s. NCT, Ankleshwar. Treated effluent from FETP to be finally disposed into deep sea through u/g pipeline of NCT.			
	Additional wastewater from utilities after expansion	102	To be reused for washing and then sent to new ETP	Treatment in ETP			
	Effluent from pigment plant – for additional production capacity	213	To be treated in new ETP	Treated effluent to be subjected to Reverse Osmosis treatment in 2 nos. RO plant @ 50 m ³ /h capacity. RO permeate to be used in process and RO reject to be sent to MEE.			
Low COD effluent streams	749	To be subjected to Reverse Osmosis treatment in 1 no. RO plant @ 50 m ³ /h capacity + 1 no. 10 m ³ /h RO polisher	RO permeate to be used in process and RO reject to be sent to MEE.				
Treated effluent from new ETP	1303 (213 + 102 + 988)	To be subjected to Reverse Osmosis treatment in 2 nos.	RO permeate to be used in process and RO reject to be sent to MEE.				



GHARDA CHEMICALS LIMITED, PANOLI

14.	During monsoon season when treated sewage effluent may not be required for the plantation/ Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of wastewater outside the premises in any case.		During monsoon, treated sewage will be used for toilet flushing / other uses after RO.						
15.	Unit shall provide buffer water storage tank of adequate capacity for storage of treated wastewater during rainy days.		We have 72 hours storage capacity for storage.						
16.	Unit shall provide adequate STP, ETP, RO & MEE system to achieve norms prescribed by GPCB for discharge into FETP of M/s: NCT.		Complied. As per annexure ETP, STP, RO and MEE flow diagram attached along with Photograph. Kindly refer Annexure 4.						
17.	Proper logbooks of ETP, Chemical consumption, quantities and qualities of effluent discharge to CETP, power consumption etc. shall be furnished to the GPCB from time to time.		ETP logbook prepared and maintained. Monthly Patrak Submitted to GPCB XGN site.						
A 3	AIR:								
Unit shall not exceed fuel consumption as mentioned below.									
Sr. No.	Stack ID / Stack Attached to	Capacity / Remarks	Quantity of fuel used	Air Pollution Control Measures	Stack Height in Meter	Parameters	Permissible Limits	Unit	
As per Existing CTO									
1	36658 - Boiler	Boiler (Cap. : 5 TPH)	NG-325 Sm ³ /h OR FO-300 kg/h OR	Not	20	PM SO ₂ NOX	150 mg/NM3 100 ppm 50 ppm	mg/Nm ³ ppm ppm	
	72362 - Boiler	Boiler (Cap. : 5 TPH) Stand By	NG-325 Sm ³ /h OR FO-300 kg/h OR	Applicable					
18.	72953 -Fuel Heater (Thermic)	Thermic Fluid Heater-I (Cap. : 4 lakh kcal/h)	NG-325 Sm ³ /h OR FO-300 kg/h	Not	11	PM SO ₂ NOX	150 mg/NM3 100 ppm 50 ppm	mg/Nm ³ ppm ppm	
	72952 -Fuel Heater (Thermic)	Thermic Fluid Heater-II	NG-325 Sm ³ /h OR FO-300 kg/h	Applicable					

Month	Natural Gas (NM3)	HSD (Lit)
Apr-24	47052	2802
May-24	56480	168
Jun-24	123859	2019.82
Jul-24	64366	268
Aug-24	57007	13053
Sep-24	60788	17106

Complied.
Fuel consumption details from April 2024 to September 2024 enclosed below.



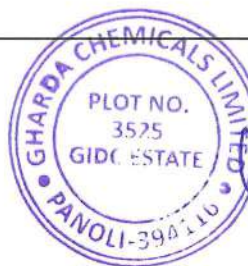
Stack Sr. No.	Stack Attached to	Air Pollution Control System	Height (m)	Air Emission	
				Parameter	Permissible Limit
1.	36661- Reaction vessels	Alkali Scrubber, Water Scrubber	12	HCL	20 mg/Nm ³
2.	36660- Reaction vessels	Alkali Scrubber, Water Scrubber		Cl ₂	09 mg/Nm ³
3.	Scrubber System-1 (HCl + SO ₂)	Water + Caustic scrubber	20	HCl	20 mg/Nm ³
				SO ₂	40 mg/Nm ³
4.	Scrubber System-2 (HCl + SO ₂)	Water + Caustic scrubber	20	HCl	20 mg/Nm ³
				SO ₂	40 mg/Nm ³
5.	Scrubber System-3 (HCl + SO ₂)	Water + Caustic scrubber	20	HCl	20 mg/Nm ³
				SO ₂	40 mg/Nm ³
6.	Scrubber System-4	Two stage Water + Caustic trap	20	HCl	20 mg/Nm ³
				Cl ₂	09 mg/Nm ³
7.	Scrubber System-5	Two stage Water + Caustic trap	20	HCl	20 mg/Nm ³

21.	Measures shall be taken to reduce the process vapors emissions as far as possible.				Effective scrubber is provided.
22.	The fugitive emission in the work Zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall be followed to reduce the fugitive emission. <ul style="list-style-type: none"> ➤ Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement. ➤ Air borne dust shall be controlled with water sprinklers at suitable locations in the plant. ➤ A green belt shall be developed all around the plant boundary and along the roads to mitigate fugitive & transport dust emission. 				Form no. 37 is maintained regularly for work area monitoring. Quarterly monitoring by the MoEF&CC and NABL Approved laboratories. As per Annexure-5. <ul style="list-style-type: none"> ➤ RCC internal roads and green belt developed to mitigate fugitive & transport dust emission.
23.	Solvent management shall be carried out as follows:				



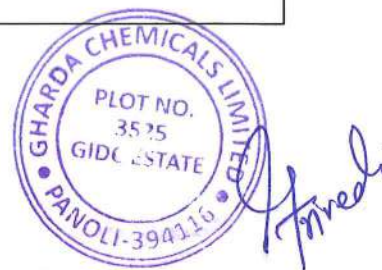
GHARDA CHEMICALS LIMITED, PANOLI

	<p>1) Reactor shall be connected to chilled brine condenser system condensate solvent vapors and reduce solvent losses.</p> <p>2) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.</p> <p>3) Solvents shall be stored in a separate space specified with all safety measures.</p> <p>4) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.</p> <p>5) Entire plant shall be flameproof. The solvent storage tanks shall be provided with breather valve to prevent losses.</p>	<p>1. Reactor is connected with chiller condenser system. Mechanical seal is provided to prevent leakage for all solvent handling pumps and reactors.</p> <p>2. Separate Solvent Storage Tank Farm is provided & it is approved by PESO. License No. P/HQ/GJ/15/5317 (P189393). (Photo -1)</p> <p>3. Double earthing (at 180 degree) is provided for all electrical equipment wherever solvent handling is done. (Photo-2)</p> <p>4. The solvents storage tanks are provided with breather valve to prevent solvent losses. (photo-3)</p>
24.	<p>Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.</p>	<p>Form no 37 maintain regularly. Quarterly monitoring by the MOEF and NABL Approved laboratories. As per Annexure 5.</p>
25.	<p>For control of fugitive emission, VOCs, following steps shall be followed:</p> <p>a) Closed handling and charging system shall be provided for chemicals.</p> <p>b) Reflux condenser shall be provided over Reactors / Vessels.</p> <p>c) Pumps shall be provided with mechanical seals to prevent leakages.</p>	<p>1. Close handling and charging systems are provided. (Photo-4)</p> <p>2. Reflux condensers are provided. (Photo-5)</p>

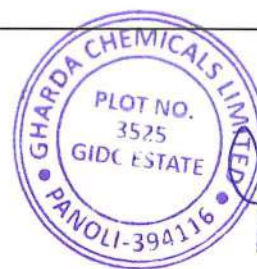


GHARDA CHEMICALS LIMITED, PANOLI

		<p>3. Pumps are provided with mechanical seals. (Photo-6)</p>																
26.	Airborne dust at all transfer operations / points shall be controlled either by spraying water or by providing enclosures.	Raw material transfer operations done in closed enclosures and water is sprinkled on ash and coal to avoid dusting.																
27.	Regular monitoring of ground level concentration of PM 10, SO ₂ , NO _x , HCL, CL ₂ , and VOC shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.	Regular quarterly monitoring by GPCB schedule 1 auditors and monitoring by NABL approved laboratories. Kindly refer Annexure 6 .																
A 4	SOLID / HAZARDOUS WASTE :																	
28.	Hazardous / Solid waste management shall be as below.																	
	<table border="1"> <thead> <tr> <th data-bbox="877 1713 981 1848">Sr. No.</th> <th data-bbox="981 1713 1141 1848">Type of Waste</th> <th data-bbox="1141 1713 1252 1848">Category (As Per SC)-2016</th> <th data-bbox="1252 1713 1329 1848">Mode of Treatment & Disposal</th> </tr> </thead> <tbody> <tr> <td data-bbox="981 1713 1141 1848">1.</td> <td data-bbox="1141 1713 1252 1848">Process waste sludge/ residue containing acid, Toxic metal. Organic compound</td> <td data-bbox="1252 1713 1329 1848">26.1</td> <td data-bbox="1329 1713 1436 1848">Process waste from pigment- Disposal by incineration in common incinerator of BELL, Ankleshwar OR co-processing at cement industry like Saurashtra Cement/ RSPL</td> </tr> <tr> <td data-bbox="1141 1713 1252 1848">2.</td> <td data-bbox="1252 1713 1329 1848">Empty barrels/ containers/ liners/ contaminated with hazardous chemicals/ waste</td> <td data-bbox="1329 1713 1436 1848">33.1</td> <td data-bbox="1436 1713 1540 1848">Disposal by sent it to authorized decontamination facility / recyclers or reuse, send back to supplier, or sent it to common TSDF BELL, Dahej.</td> </tr> <tr> <td data-bbox="1252 1713 1329 1848">3.</td> <td data-bbox="1329 1713 1436 1848">Chemical containing residue arising from decontamination</td> <td data-bbox="1436 1713 1540 1848">34.1</td> <td data-bbox="1540 1713 1596 1848">Other wastes, Contaminated Dust, Cotton Waste- Sent to TSDF site M/s. BELL, Ankleshwar</td> </tr> </tbody> </table>	Sr. No.	Type of Waste	Category (As Per SC)-2016	Mode of Treatment & Disposal	1.	Process waste sludge/ residue containing acid, Toxic metal. Organic compound	26.1	Process waste from pigment- Disposal by incineration in common incinerator of BELL, Ankleshwar OR co-processing at cement industry like Saurashtra Cement/ RSPL	2.	Empty barrels/ containers/ liners/ contaminated with hazardous chemicals/ waste	33.1	Disposal by sent it to authorized decontamination facility / recyclers or reuse, send back to supplier, or sent it to common TSDF BELL, Dahej.	3.	Chemical containing residue arising from decontamination	34.1	Other wastes, Contaminated Dust, Cotton Waste- Sent to TSDF site M/s. BELL, Ankleshwar	Hazardous waste disposal from April 2023 to September 2023 category wise attached as Annexure- 7 .
Sr. No.	Type of Waste	Category (As Per SC)-2016	Mode of Treatment & Disposal															
1.	Process waste sludge/ residue containing acid, Toxic metal. Organic compound	26.1	Process waste from pigment- Disposal by incineration in common incinerator of BELL, Ankleshwar OR co-processing at cement industry like Saurashtra Cement/ RSPL															
2.	Empty barrels/ containers/ liners/ contaminated with hazardous chemicals/ waste	33.1	Disposal by sent it to authorized decontamination facility / recyclers or reuse, send back to supplier, or sent it to common TSDF BELL, Dahej.															
3.	Chemical containing residue arising from decontamination	34.1	Other wastes, Contaminated Dust, Cotton Waste- Sent to TSDF site M/s. BELL, Ankleshwar															

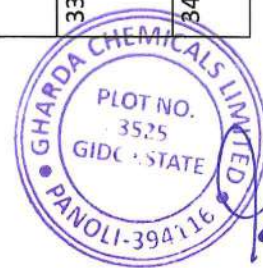


4.	Chemical sludge from waste water treatment	35.3	ETP sludge- Send to TSDF site M/s. BEIL, Dahej.
5.	Oil and grease skimming	35.4	Oily waste- Sent for common incinerator M/s. BEIL, Ankleshwar OR by co-processing at cement industry like Saurashtra Cement/ RSPL
6.	Used or Spent Oil	5.1	Disposed by reuse in plant & machinery as lubricant or sell it to authorized re-refiners/ recycler.
7.	Inorganic Acids (Spent Acids)	B15	Spent Acetic acid/ Phosphoric acid- Disposed by Sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste.
8.	Process Residue	36.1	Process Residue- Disposal by incineration in common incinerator of BEIL, Ankleshwar OR co-processing
9.	Spent Carbon or filter media	36.2	Spent Carbon- Disposal by incineration in common incinerator of BEIL, Ankleshwar OR co-processing
10.	Ammonium	A10	Ammonium acetate 10%- Disposed by Sell out to authorize users who is having authorization with valid CCA and rule 9 permission to receive this waste.
11.	Sodium sulphate-10%	---	Sodium sulphate-10%- Disposed by Sell out to authorize users who is having authorization with valid CCA and rule 9 permission to receive this waste.
12.	Metal hydrogen sulphates	B23	Sodium bisulfite (25-30%) - Disposed by Sell out to authorize users who is having authorization with valid CCA and rule 9 permission to receive this waste.
13.	Halogen- containing compounds which produce acidic vapor on contact with humid air or water e.g. silicon tetrachloride, aluminum chloride, titanium tetrachloride	B10	Calcium chloride- 20-30%- Disposed by Sell out to authorize users who is having authorization with valid CCA and rule 9 permission to receive this waste. Aluminum Chloride-22%- Disposed by Sell out to authorize users who is having authorization with valid CCA and rule 9 permission to receive this waste.



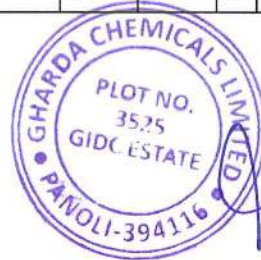
GHARDA CHEMICALS LIMITED, PANOLI

14. Calcium sulfate-92%	Calcium sulfate-92%- Disposed by Sell out to authorize users who is having authorization with valid CCA and rule 9 permission to receive this waste.	---	MOU made with authorized end users having permission under Rule-9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016. As per Annexure - 3.
29.	Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.		
A 5	OTHER:		
30.	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. Siddhi Green Excellence Pvt. Ltd., Ankleshwar and submitted by project proponent vide letter no. NIL dated 16/12/2017 and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.		Noted.
B.	GENERAL CONDITIONS :		
B. 1	CONSTRUCTION PHASE :		
31.	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.		Being followed.
32.	Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.		Guidelines are displayed & followed.
33.	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.		All sanitary and hygienic measures are provided and maintained.
34.	First Aid Box shall be made readily available in adequate quantity at all the times.		First aid box is available in adequate quantity at all the




GHARDA CHEMICALS LIMITED, PANOLI


		time as per Annexure 8 and Photo-7.
35.	The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local byelaws of concern authority shall be complied in letter and spirit.	Complied.
36.	Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.	Regular monitoring is being carried out and it will be continued. Results are As per Annexure 9.
37.	Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.	Acoustic enclosure and we conform to the EPA Rules for air and noise emission standards.
38.	Safe disposal of wastewater and municipal solid wastes generated during the construction phase shall be ensured.	Complied.
39.	All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.	Complied.
40.	Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed of with the approval of the component authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighboring communities.	Complied.
41.	Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete [RMC] and lead free paints in the project.	Complied
42.	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.	We will follow.
B. 2	OPERATION PHASE :	
B. 2.1	WATER :	
43.	The water meter shall be install and records of daily and monthly water consumption shall be maintain.	Unit has installed water meter and records maintained.



GHARDA CHEMICALS LIMITED, PANOLI


		Moreover, it shall continue after proposed expansion.	
44.	All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT), The unit shall continuously strive to reduce, recycle and reuse the treated effluent.	We have UF-RO and Multi effect evaporator with stripper and ATFD for Recycling of treated Effluent and reuse in utility and plant.	
B.2.2	AIR :		
45.	Acoustic enclosure shall be provided to DG sets (If applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.	Acoustic enclosure provided to DG sets to mitigate the noise pollution and we confirm to the EPA Rules for air and noise emission standards. Noise report Annexure – 9	
46.	Stack/vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for fuel gas emission/Process gas emission.	Complied.	
47.	Fuel gas emission & Process gas emission (If any) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.	NABL Approved Laboratory Monitoring report Attached Annexure – 6.	
48.	All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	Close system provided.	



		
<p>B. 2.3 49.</p>	<p>HAZARDOUS / SOLID WASTE : The company shall strictly comply with the rules and regulations with regard to handling and disposal of Hazardous waste in accordance with the Hazardous waste and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.</p>	<p>Company will strictly complied the condition.</p>



GHARDA CHEMICALS LIMITED, PANOLI

50.	Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility before its disposal.	 <p>Pucca bottom and leachate collection facility provided where hazardous waste is stored.</p>
51.	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)	Membership and acceptance letter is available. As per Annexure 10.
52.	Trucks / Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.	Motor Vehicle Act, 1988, and other applicable rules are followed.
53.	The design of the Trucks/tankers shall be such that there is no spillage during transportation.	Dedicated hazardous waste trucks approved by GPCB are used.
54.	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	Process waste send to cement Companies (J K Lakshmi Cement Sanghi Cement), and to the Alternative Fuel Resources industries. Like RSPL
55.	Management of fly ash (if any) shall be as per the fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	We dispose fly ash to authorized brick manufacturer having valid

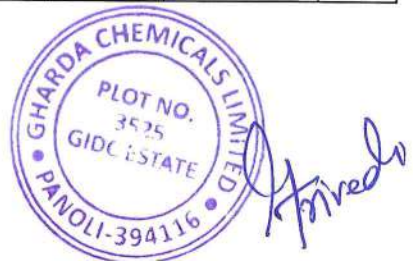


M. V. J.


GHARDA CHEMICALS LIMITED, PANOLI

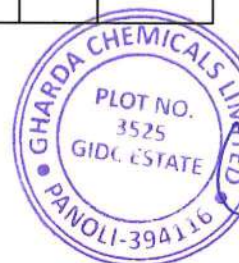
	Consolidated Consent & Authorization.
--	---------------------------------------



B.2.4	SAFETY :	Factory act 1948 followed for regular compliance. Regular third party safety audits are carried out.
56.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.	Unit shall comply with the given condition no 57. PII Policy & PESO license copies attached as Annexure 11.
57.	The project authorities shall strictly comply with the provisions made in manufacture, storage and import of hazardous chemicals Rules, 1989 as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.	Exit and entry boards are displayed in all process plant. (Photo – 8)
58.	Main entry and exit shall be separate and clearly marked in the facility.	Complied
59.	Sufficient peripheral open passage shall be kept in the margin area free movement of fire tender/emergency vehicle around the premises.	Separate tank farm, away from production area is provided
60.	Storage of flammable chemicals shall be sufficiently away from the production area.	Fire extinguishers are provided as per fire load. Details are attached as Annexure 12.
61.	Sufficient number of fire extinguishers shall be provided near the plant and storage area.	Complied. SOPs for handling & storage Haz. Chemicals,
62.	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.	

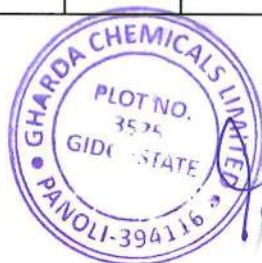


GHARDA CHEMICALS LIMITED, PANOLI

		Display boards etc. are available.
63.	All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	All the necessary permissions like permission from PESO is obtained. Kindly refer Annexure 11.
64.	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	Complied.
65.	Only flameproof electrical fittings shall be provided in the plant premises.	All the fittings in process area are flame proof. 
66.	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.	Complied. Kindly refer Annexure-13 for details of chemical storage tanks with capacity.
67.	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund / dyke walls shall be provided for storage tanks for Hazardous Chemicals.	Complied. (Photo-9) Dyke walls are available.
68.	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	Close chemical transfer systems and vent equalization systems are provided.




		
69.	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	<p>OHC is available. We have full time medical officers, round the clock male nurse and tie up with Sardar Patel hospital.</p> 
70.	Personal protective Equipment's shall be provided to workers and its usage shall be ensured and supervised.	<p>PPEs are provided to the workers as per the work requirements. (Photo-10)</p>
71.	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate	<p>Total 11 No. of first aid boxes provided. (Photo-7) Antidotes are available in OHC.</p>
72.	Training shall be imparted to all workers on safety and health aspects of chemicals handling.	<p>Regular training is provided and records are available. Kindly refer Annexure 14.</p>



GHARDA CHEMICALS LIMITED, PANOLI

73.	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.	Pre-employment and periodical medical checkup is done on regular basis. Kindly refer Annexure 15.
74.	Transportation of hazardous chemicals shall be done as per the provision of the Motor Vehicles Act & Rules.	Motor vehicle act followed.
75.	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	Shall be Complied.
76.	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	Complied. Necessary License/ permissions Such as factory license & PESO license are available. Annexure 11 & Annexure 16.
B.2.5	NOISE :-	
77.	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation, hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	Complied. Ambient noise monitoring carried out on quarterly basis. Annexure-6 is attached in this regard.
B.2.6	CLEANER PRODUCTION AND WASTE MINIMISATION:-	
78.	The unit shall under take cleaner production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.	Shall be done.




79.	<p>The company shall undertake various waste minimization measures such as:</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 materials substitutes. c) Use of automated and close filling to minimize spillages. d) Use of close feed system into batch reactors. e) Venting equipment through vapour recovery system. f) Use of high-pressure hoses for cleaning to reduce wastewater generation. g) Recycling of washes to subsequent batches. h) Recycling of steam condensate. i) Sweeping / mopping of floor instead of floor washing to avoid effluent generation. j) Regular preventive maintenance for avoiding leakages, spillage etc. 	<ul style="list-style-type: none"> a). quantities of active ingredients to minimize waste are controlled. b). Re use of by product from the process is done regularly. c). close filling system is installed. d). Automation of close filling system is available e). Secondary HE is provided for vapor recovery system. 	
B.2.7.	<p>GREEN BELT AND OTHER PLANTATION :-</p>	<ul style="list-style-type: none"> f). Recycling of washes to the next batch is done regularly h). Steam condensate is reused regularly. l). Sweeping and mopping is done regularly. j) Preventive maintenance is done regularly. 	
80.	<p>The unit shall develop green belt within the premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on roadsides and suitable open areas in GIDC</p>	<p>33.25% green belt is available. Total plot area- 2,02,285.92 m²</p>	



M. V. V. V.

GHARDA CHEMICALS LIMITED, PANOLI

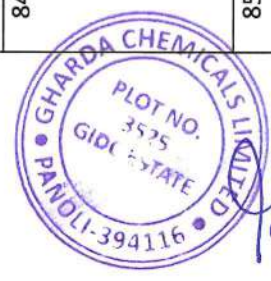
	<p>estate or any other open areas in consultation with the GIDC/GPCB and submit an action plan of plantation for next three years to the GPCB.</p>	<p>Total Green belt area- 67,262 m2.</p> 
81.	<p>Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.</p>	<p>Implemented</p>



Handwritten signature


GHARDA CHEMICALS LIMITED, PANOLI

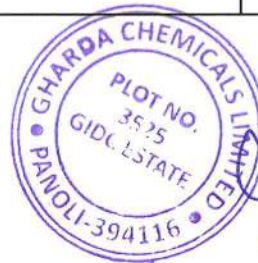
<p>B.3</p>	<p>OTHER CONDITION :-</p>	<p>Rainwater Harvesting implemented in company premises.</p> <p>1. Rainwater collected in sump and after sand filtration, Transferring to Cooling tower.</p> <p>2. From ETP-MEE plant and RO plant Roof surface Rainwater is collected in Ro permeate tank and use for cooling tower of MEE plant and Utility.</p>
<p>82.</p>	<p>Rainwater harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface, run off. Pre-treatment must be done to remove suspended matter.</p>	<p>We shall Join and participate in Industrial Association or GIDC or GPCB initiative for common environment facility or common infrastructure as when create.</p>
<p>83.</p>	<p>The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the Industrial Association or GIDC takes the same up or GPCB or any such authority created for this purpose by the Govt. / GIDC.</p>	<p>1. We are using solar. (1.3 MW). This will be utilized for lighting and other manufacturing purpose. We are exploring additional 1 MW solar power.</p>
<p>84.</p>	<p>Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall be provided.</p>	<p>Unit shall comply with the given condition.</p>
<p>85.</p>	<p>The area earmarked as green area shall be used only for plantation and shall not be alerted for any other purpose.</p>	<p>We will follow.</p>
<p>86.</p>	<p>All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered too.</p>	



Handwritten signature

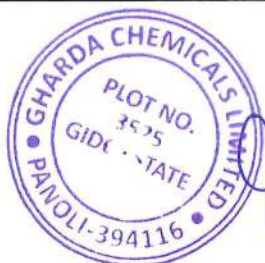
GHARDA CHEMICALS LIMITED, PANOLI

87.	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	We will follow.
88.	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	We will follow.
89.	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any stator authority.	We will follow.
90.	During material transfer, there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water.	Arrangements are made to contain all spillages with in process area and isolated from storm water drain.
91.	Pucca flooring / impervious bottom shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	Complied (photo -11)
92.	Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.	Complied. Mechanical seal pump is used. 
93.	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	Shall be ensured
94.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Noted
95.	The project proponent shall comply all the conditions mentioned in the "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	CSR activity followed. Kindly refer Annexure 17.



GHARDA CHEMICALS LIMITED, PANOLI

96.	The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and risk Assessment study report as well as proposed by project proponent.	Shall be ensured.
97.	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Complied.
98.	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may be seen at the Website of SEIAA / SEAC / GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied. Grant of Environment Clearance vide letter no. SEIAA/GUJ/EC/5(f)/678/2018 on dated 30 th June 2018 was advertised in local newspapers. Scanned copy of paper pages are also made available Kindly refer Annexure 18 .
99.	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned each year.	Half-yearly report for the Month October 2023 to March-2024 was submitted on PARIVESH.
100.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
101.	The project authority shall also adhere to the stipulations made by the Gujarat pollution control board.	Being Complied
102.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted



Handwritten signature

GHARDA CHEMICALS LIMITED, PANOLI

103.	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	Noted
104.	The project authority shall inform the GPCB, Regional office of MoeF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Informed regularly through half-yearly EC compliance report.
105.	This environmental clearance is valid for seven years from the date of issue.	Noted
106.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted
107.	Submission of any false or misleading information or data, which is material to screening or scoping or appraisal or decision on the application, makes this environmental clearance cancelled.	Noted



ANNEXURES

SOLVENT RECOVERY DATA

DMAC RECOVERY DATA IN PY-138								
MONTH	OPENING STOCK KG	ISSUE FROM STORE	TRANS. TO OTHER PLANT	USED IN PROCESS	RECOVERD	BALANCE	LOSS %	RECOVERY %
Apr-24	12,455	13,044	00	279900	2,75,750	21,349	4,150	1.48%
May-24	21,349	00	00	264350	2,60,125	17,124	4,225	1.60%
jun-24	17,124	11,450	00	264350	2,61,080	25,304	3,270	1.24%
Jul-24	25,304	1,041	00	311000	3,06,100	21,445	4,900	1.58%
Aug-24	21,445	00	00	233250	2,29,880	18,075	3,370	1.44%
Sep-24	18,075	00	00	233250	2,30,515	15,340	2,735	1.17%

DMAC RECOVERY DATA IN PR-122/PV-19								
MONTH	OPENING STOCK KG	ISSUE FROM OTHER PLANT	TRANS. TO OTHER PLANT	USED IN PROCESS	RECOVERD	BALANCE	LOSS %	RECOVERY %
Apr-24	25,920	1,033	50	2,26,800	2,22,879	22,982	3,921	1.73%
May-24	22,982	6,726	305	2,16,000	2,12,475	25,878	3,525	1.63%
jun-24	25,878	926	0	1,94,400	1,92,343	24,747	2,057	1.06%
Jul-24	24,747	5,033	0	2,37,600	2,35,495	27,675	2,105	0.89%
Aug-24	27,675	75	75	2,16,000	2,14,009	25,684	1,991	0.92%
Sep-24	25,684	942	132	2,05,200	2,03,384	24,678	1,816	0.88%



GHARDA CHEMICALS LIMITED, PANOLI

METHANOL RECOVERY DATA								
MONTH	OPENING STOCK KG	ISSUE FROM STORE	TRANS. TO OTHER PLANT	USED IN PROCESS	RECOVERD	BALANCE	LOSS %	RECOVERY %
Apr-24	2,815	00	00	124325	1,23,515	2,005	810	0.65%
May-24	2,005	4,997	00	164635	1,63,625	5,992	1,010	0.61%
jun-24	5,992	00	00	148120	1,47,185	5,057	935	0.63%
Jul-24	5,057	00	00	170950	1,69,885	3,992	1,065	0.62%
Aug-24	3,992	2,130	00	147155	1,46,340	5,307	815	0.55%
Sep-24	5,307	00	00	149580	1,48,630	4,357	950	0.64%



Leak Detection Analysis Report SOP:

GHARDA CHEMICAL LIMITED, PANOLI

WORK INSTRUCTION

Effective Date :- 01.01.2021	Rev no:02	Rev. Date :- 06.06.2023	Doc No ENV/WI/11
Title:- LEAK DETECTION AND REPAIR PROGRAMME (LDAR)			
Clause no: ISO9001: 7.5, ISO14001:4.4.,OHSAS18001:4.4.6			

1. Purpose	1.1 To eliminate/ minimize fugitive emissions and odour from operations 1.2 Statutory fulfilment / requirement as per Gujarat Pollution Control Board and Environment protection rules 1986.																																
2. Scope	2.1 This procedure is applicable for process plant/ Chemical storage and Hazardous waste handling and storage at Gharda Chemical Limited, Panoli.																																
3. Cross reference	3.1 ENV/SOP/11 Planning & process control of ETP																																
4. Abbreviations	4.1 ETP - Effluent Treatment Plant 4.2 LDAR- Leak Detection and Repair Program																																
5. Responsibility	5.1 Manager (Environment) 5.2 General manager Production 5.3 General manager Engineering																																
6. Description	<p>1. Applicability : LDAR programme shall be for following products/compounds: (i) hydrocarbon gases; (ii) light liquid with vapour pressure @20 °C >1.0 KPa. and (iii) Heavy liquid with vapour pressure @20 °C between 0.3 to 1.0 KPa</p> <p>2. Identification of components:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Name of Chemical</th> <th>Boiling point (°C)</th> <th>Flash point (°C)</th> <th>Vapour pressure (KPa)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Di Ethyle Glycol</td> <td>245.8</td> <td>CC- 138 OC-143</td> <td>0.0013 KPa@20 °C</td> </tr> <tr> <td>2</td> <td>Monochloro Benzene</td> <td>131</td> <td>CC- 29.44</td> <td>1.173 KPa@20 °C</td> </tr> <tr> <td>3</td> <td>Iso butyle alcohol</td> <td>108</td> <td>CC- 28 OC-37.7</td> <td>1.2KPa@20 °C</td> </tr> <tr> <td>4</td> <td>Dimethyl Acetamide</td> <td>163</td> <td>CC-66 OC-70</td> <td>0.2KPa@20 °C</td> </tr> <tr> <td>5</td> <td>Methanol</td> <td>64</td> <td>CC- 12</td> <td>12KPa@20 °C</td> </tr> </tbody> </table>			Sr. No.	Name of Chemical	Boiling point (°C)	Flash point (°C)	Vapour pressure (KPa)	1	Di Ethyle Glycol	245.8	CC- 138 OC-143	0.0013 KPa@20 °C	2	Monochloro Benzene	131	CC- 29.44	1.173 KPa@20 °C	3	Iso butyle alcohol	108	CC- 28 OC-37.7	1.2KPa@20 °C	4	Dimethyl Acetamide	163	CC-66 OC-70	0.2KPa@20 °C	5	Methanol	64	CC- 12	12KPa@20 °C
Sr. No.	Name of Chemical	Boiling point (°C)	Flash point (°C)	Vapour pressure (KPa)																													
1	Di Ethyle Glycol	245.8	CC- 138 OC-143	0.0013 KPa@20 °C																													
2	Monochloro Benzene	131	CC- 29.44	1.173 KPa@20 °C																													
3	Iso butyle alcohol	108	CC- 28 OC-37.7	1.2KPa@20 °C																													
4	Dimethyl Acetamide	163	CC-66 OC-70	0.2KPa@20 °C																													
5	Methanol	64	CC- 12	12KPa@20 °C																													
Action	Designation	Signature	Date																														
Prepared by	Manger - Environment	<i>[Signature]</i>	06.06.2023																														
Approved by	GM - Production	<i>[Signature]</i>	06.06.2023																														
Issued by	MR	<i>[Signature]</i>	06.06.2023																														



GHARDA CHEMICAL LIMITED, PANOLI

WORK INSTRUCTION			
Effective Date :- 01.01.2021	Rev no:02	Rev. Date :- 06.06.2023	Doc No ENV/WI/11
Title:- LEAK DETECTION AND REPAIR PROGRAMME (LDAR)			
Clause no: ISO9001: 7.5, ISO14001:4.4, OHSAS18001:4.4.6			

			OC-16
<p>3. Monitor Components: Components that shall be covered under LDAR programme include (i) Block valves; (ii) Control Valves; (iii) Pump seals; (iv) Compressor seals; (v) Pressure relief valves; (vi) Flanges – Heat Exchangers; (vii) Connectors – Piping; and (viii) Sampling connections. Equipment and line sizes more than 1.875 cm or ¾ inch are covered.</p>			
<p>4. Repair / Action plan</p> <ul style="list-style-type: none"> • Pipeline shall be tested before use & properly maintained. • Mechanical seals shall be provided in pumps and reactor's agitators. • Dry vacuum pumps shall be used • MOC of the equipment shall be as per compatibility of the chemicals • Gaskets shall be selected as per compatibility. • Leak detection sensors will be installed. • Leaks shall be attended immediately. • All the valves, pumps, connectors, open ended pipes etc. shall be inspected periodically to check any leaks • Monitoring instrument calibration and inspection shall be carried out regularly. • Preventive maintenance schedule shall be followed strictly. 			
<p>5 Record keeping:</p> <ul style="list-style-type: none"> • All records for inspection, findings and corrective & preventive actions to be maintained. • Monitoring instrument calibration records to be maintained. • Preventive maintenance records to be maintained. 			

Action	Designation	Signature	Date
Prepared by	Manger - Environment	<i>[Signature]</i>	06.06.2023
Approved by	GM - Production	<i>[Signature]</i>	06.06.2023
Issued by	MR	<i>[Signature]</i>	06.06.2023



GHARDA CHEMICAL LIMITED, PANOLI

WORK INSTRUCTION			
Effective Date :- 01.01.2021	Rev no:02	Rev. Date :- 06.06.2023	Doc No ENV/WI/11
Title:- LEAK DETECTION AND REPAIR PROGRAMME (LDAR)			
Clause no: ISO9001: 7.5, ISO14001:4.4, OHSAS18001:4.4.6			

6. Schedule for Inspection and monitoring	
Component	Frequency
Pump seals	Quarterly
Compressor seals	Quarterly
Pressure relief devices	Quarterly
Pressure relief devices (after venting)	Within 24 hours
Heat Exchangers	Quarterly
Process drains	Annually
Components that are difficult to monitor	Annually
Pump seals with visible liquid dripping	Immediately
Any component with visible leaks	Immediately
Any component after repair/ replacement	Within five days
Documentation	ENV/F/17

Action	Designation	Signature	Date
Prepared by	Manger - Environment	<i>[Signature]</i>	06.06.2023
Approved by	GM - Production	<i>[Signature]</i>	06.06.2023
Issued by	MR	<i>[Signature]</i>	06.06.2023



DETAILS OF HAZARDOUS WASTE MANAGEMENT

Sr. No.	Type of Waste	Sch.	Category (As Per SC)-2016	Quantity (MT/Annium)		Product from Waste generation	Name of GPCB End users	CTO Valid up to	MOU	RULE 9 Permission
				Existing CCA Qty	Total Qty after CTO amendment (Existing + applied)					
1.	Spent Acetic acid/ Phosphoric acid	II	B15	127.2	Spent Acetic acid- 307.2	Pigment Violet 23	---	---	Yes	Yes
4.	Ammonium acetate 10%	II	A10	---	255	Pigment red 122/ Pigment violet 19	M/s Pharmavet Industries, M/s J J Corporation, Graddy pharma	30/06/2027 31/03/2028 07/07/2026	---	---
5.	Sodium sulphate- 10%		---	---	341	Pigment violet 23	---	---	---	---
>	Sodium bisulfite (25-30%)	II	B23	---	677	PEK/PEKK/ ABPBI	---	---	---	---



GHARDA CHEMICALS LIMITED, PANOLI

A	Calcium chloride- 20-30%	II	B10	---	767	PEK/PEKK/ ABPBI	---	---	---	---
	Aluminum Chloride-22%			---	829	PEK/PEKK/ ABPBI	---	---	---	---
8.	Calcium sulfate- 92%	--	---	---	358	PEI	---	---	---	---



(Handwritten signature)

MOU and Rule 9 Application Copy J J Corporation for Reference

IN-GJ52328703850433V

₹300

₹300₹300₹300₹300



सत्यमेव जयते

INDIA NON JUDICIAL Government of Gujarat Certificate of Stamp Duty

Certificate No.	: IN-GJ52328703850433V
Certificate Issued Date	: 26-Apr-2023 03:55 PM
Account Reference	: IMPACC (SV)/ gj13039204/ ANKLESHWAR1/ GJ-BH
Unique Doc. Reference	: SUBIN-GJGJ1303920431371923887377V
Purchased by	: GOPAL RATHVA
Description of Document	: Article 5(h) Agreement (not otherwise provided for)
Description	: AGREEMENT
Consideration Price (Rs.)	: 0 (Zero)
First Party	: GHARDA CHEMICALS LTD
Second Party	: J J CORPORATION
Stamp Duty Paid By	: GHARDA CHEMICALS LTD
Stamp Duty Amount(Rs.)	: 300 (Three Hundred only)

₹300



IN-GJ52328703850433V



0038265833





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

NO. GPCB/CCA-VSD-231(2)/ID: 23650/

To,
M/S. J J CORPORATION,
PLOT NO: 193/3, PHASE-II,
GIDC ESTATE, VAPI- 396195,
TAL: PARDI, DIST: VALSAD.

SUB: Amendment (AWH- 98970) to Consolidated Consent & Authorization (CC & A) under various Environmental Acts/ Rules.

REF: 1) Your Application Inward No.146156 dated: 13/11/2018
2) CTE issued vide this office letter dated: 26/10/2018

Sir,

The Gujarat Pollution Control Board had granted Consolidated Consents & Authorization Order No. AWH- 95467 dated 27/08/2018 which is valid up to 31/03/2023. This order is served vide letter No. GPCB/CCA-VSD-231(2)/ID-23650/467317 dated: 31/08/2018 is further amended with respect of following conditions.

Sr. No.	Product	Quantity (MT/M)		
		Existing	Proposed	Total
1.	Di Basic Calcium Phosphate (I.P.)	80	45	125*

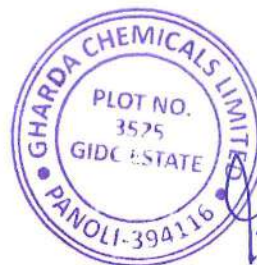
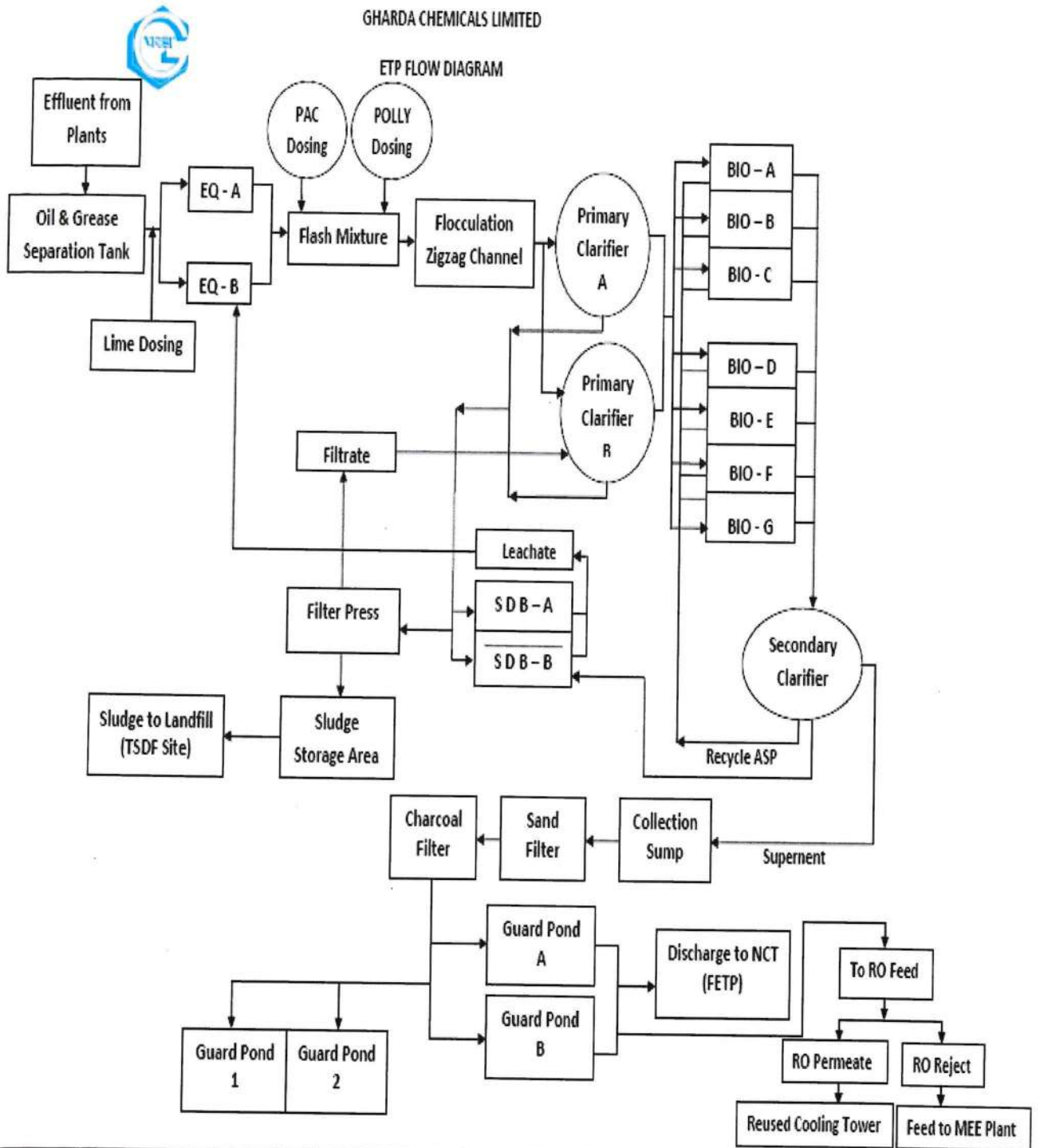
* Maximum production quantity from Rock Phosphate Route will be 70 TPM and balance i.e.55 TPM from phosphoric acid route.

1. CONDITIONS UNDER WATER (PREVENTION AND CONTROL OF POLLUTION) ACT 1974:

- 1.1 The quantity of total fresh water consumption shall not exceed 53 KLD for production of 125 TPM of Di Basic Calcium Phosphate (I.P.) through Dilute Phosphoric Acid Route as per break up mentioned in form D submitted for consent application under Water (Prevention and Control of Pollution) Act-1974. Source of fresh water shall be only from GIDC supply.
- a) Industrial: 52 KLD (8 KLD Fresh + 44 KLD recycled)
b) Domestic: 01 KLD
- 1.2 The quantity of generated industrial effluent from the manufacturing process and other ancillary industrial operation shall not exceed than 57 KLD.
- 1.3 44 KLD waste water shall be recycled.
- 1.4 13 KLD waste water shall be sent to CETP for further treatment & disposal.
- 1.5 The quantity of total fresh water consumption shall not exceed 94 KLD for production of 70 TPM of Di Basic Calcium Phosphate (I.P.) through Rock Phosphate Route & 55 TPM through

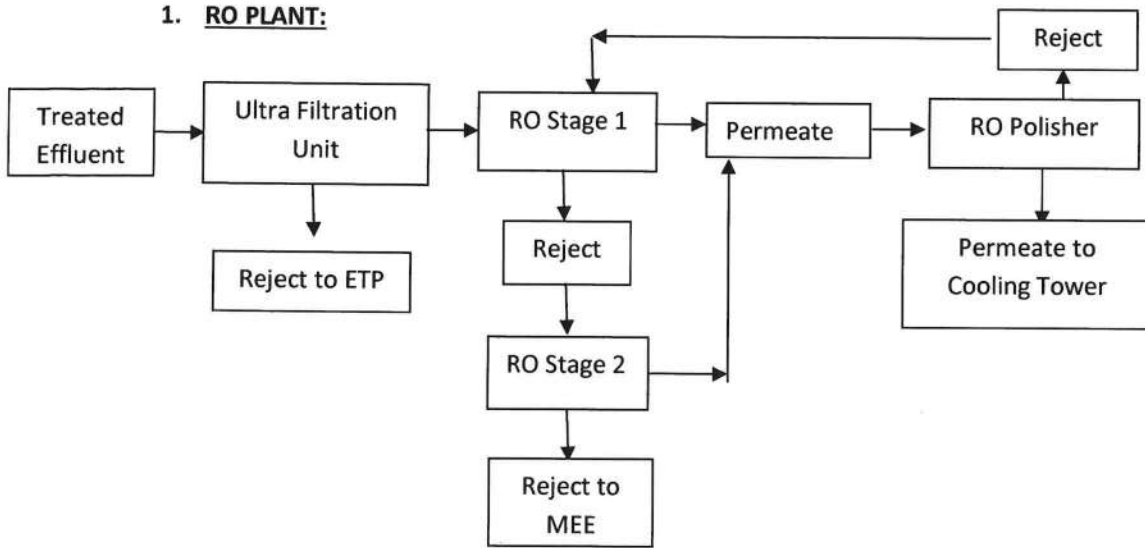


(ETP DIAGRAM)

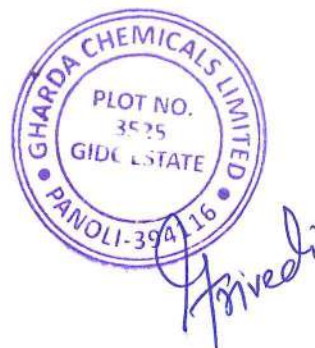
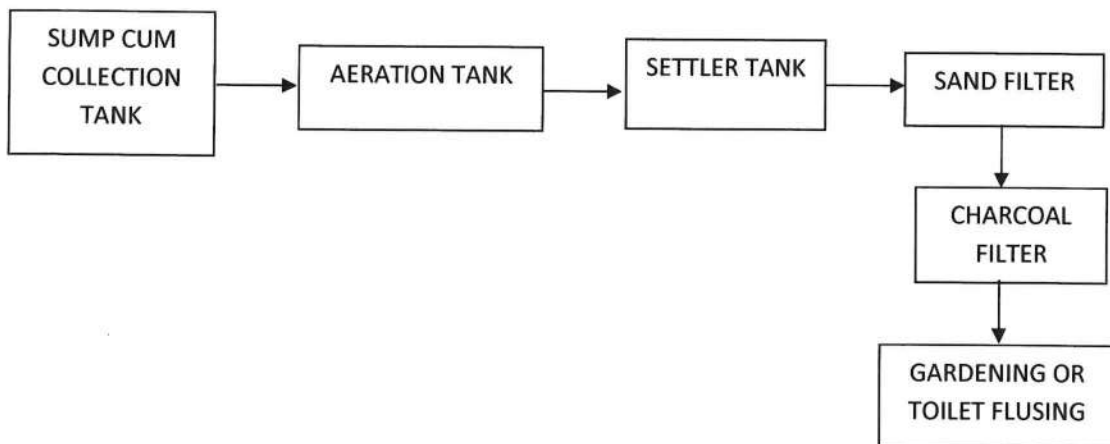


(RO & STP DIAGRAM)

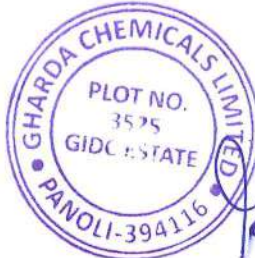
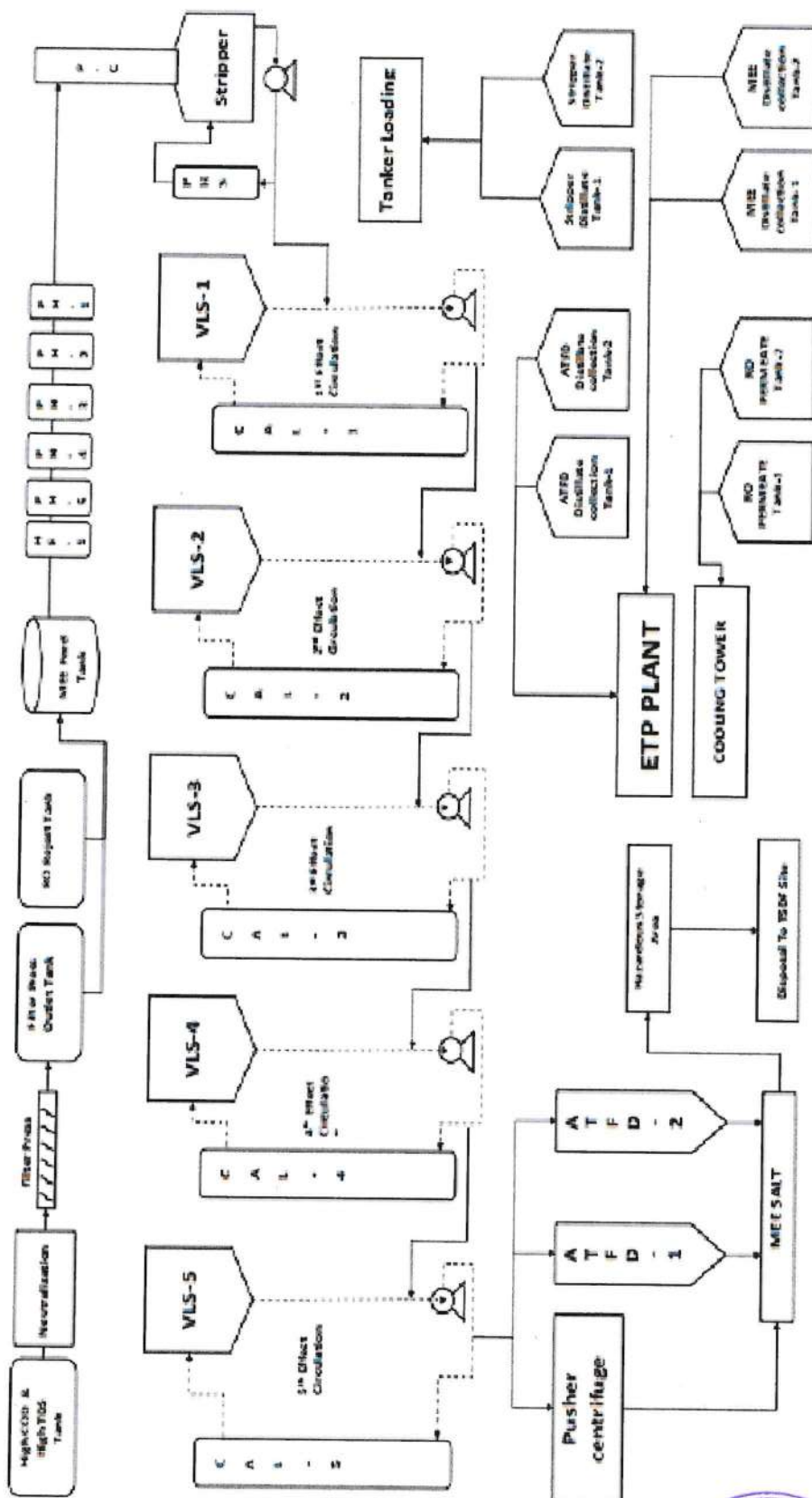
1. RO PLANT:



2. STP PLANT:







MEE PLANT LAYOUT



Handwritten signature

Photograph of ETP, STP, RO, MEE

<p style="text-align: center;">ETP Plant</p> 	<p style="text-align: center;">STP Plant</p> 
<p style="text-align: center;">RO Plant</p> 	<p style="text-align: center;">MEE Plant</p> 



Arvedi

WORK PLACE MONITORING FORM 37

Laboratory Department
Aqua-Air[®] Environmental Engineers Pvt. Ltd.
 (Pollution Control Consultants & Engineers)

ISO 9001:2015 Registered Schedule-III Environmental Auditor • ISO 45001:2018 Certified Company • ISO 9001:2015 Certified Company
 NABL Accredited EIA Consultant • NABL Accredited Testing Laboratory • MOEFCC Approved Environmental Laboratory



ISSUE DATE 02.07.2024
 REF. NO. AEE/140-A-8(A)/2024

FORM No.37

(Prescribed under Rule 12-B)
 Register containing particulars of monitoring of Environment
 required under section 7-A (a) (e)

NAME OF INDUSTRIES : M/s. GHARDA CHEMICALS LTD.

Address of the Industry : Plot No. 3525, 3512-A, GIDC Estate,
 Panoli-394 116, Taluka: Ankleshwar,
 Dist. Bharuch, Gujarat, INDIA

Name of Monitoring Party : Aqua-Air Environmental Engineers Pvt. Ltd.,
 Surat (GPCB Approved Monitoring Party)

Date of Sampling : 26th June, 2024

Time of Sampling : 09:50 hrs. TO 10:20 hrs.

Duration of Sampling : 30:00 min.

Location ID Code : 45-A/LB/24/WP₁

1. NAME OF DEPARTMENT : **PLANT-1A (FIRST FLOOR)**
NR.R-1007/1008

2. Raw Material, By-products & Finished products involved in the process : **Major Raw Material:** PR-122 Crude
 W/Cake & IBA+ Water
 : **Byproduct:** None
 : **Finished Products:** PIGMENT RED-122/PIGMENT VIOLET-19

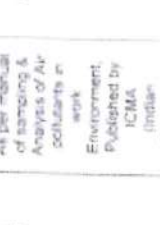
3. Particulars of Sampling : Isobutyl Alcohol



Arved

Aqua-Air

PARTICULARS OF SAMPLING:

Sr No.	Location/ Operation Mentioned	Identified Contaminant	Sampling Instrument used	Airborne Contamination		Average Concentration as given in 1 st Schedule	Reference method	No of workers exposed at the location being monitored	Remarks/ Activity in progress in the time of sampling	Signature of Person taking Samples	Name (in Block Letter)
				No of Samples	Range						
1	2	3	4	5	6	7	8	10	11	12	13
1	PLANT-1A (FIRST FLOOR) NR R-1007/1008	Isobutyl Alcohol (45-AI.B/24/ WP.- Isobutyl Alcohol)	Benzene & Carbon Monoxide Sampler- AAS-172 (Make Ecolab Instruments) 1-LB-60	31 No	2.9 ppm	2.9 ppm	As per manual of sampling & Analysis of Air pollutants in work Environment. Published by ICMA (Indian Chemical Manufacturing Association) using Benzene Sampler- AAS-172 (Make Ecolab Instruments) 1-LB-60 (Absorption extraction followed by GC/GCMS)	3 Workers	Pigmentation		LALJI LAJUMDAR (SR SCIENTIST)



*As per OSHA Time-Weighted Average (TWA) for General Industry @ factory act limit. RUL. Below Detectable Limit



M. V. Redi

THIRD PARTY AMBIENT AIR MONITORING REPORT

Laboratory Department
Aqua-Air® Environmental Engineers Pvt. Ltd.
(Pollution Control Consultants & Engineers)



GPCB Recognized Schedule 4 Environmental Auditor • ISO 45001:2018 Certified Company • ISO 9001:2015 Certified Company
NABE I-QCI Accredited EIA Consultant • NABL Accredited Testing Laboratory • MOEFCC Approved Environmental Laboratory

F-LB-15/5.10/01-4

TEST REPORT

Customer's Name and Address

M/s. GHARDA CHEMICALS LTD.
Plot No.: 3525, 3512-A, GIDC Estate,
Panoli-394 116, Taluka: Ankleshwar, Dist.: Bharuch,
Gujarat, INDIA

ISSUE DATE	02.07.2024
REF. NO.	AEE/140-9/2024
ULR NO.	--

Description of sample	: Gaseous Sample of Ambient Air	Lab ID Code	: 45/LB/24/AM
Date of Sampling	: 26-27.06.2024	Sampling Time	: 10:55 am to 10:55 am
Description of Location	: NR. OHC	Duration of Sampling (Hrs)	: As per Result Table
Sample Collected By	: AEEPL TEAM (Mr. Lalji Ladumor, Sr. Scientist)	Sampling procedure	: As per IS method (As Listed Below)
Packing/Seal	: Sealed With Proper Identification	Protocol (Purpose)	: Monthly Monitoring (June-2024)
Test Parameters	: AS PER CC & A (GPCB)	Date of Starting of Test	: 28.06.2024
Sample Receipt Date	: 28.06.2024 (10:10 am)	Date of Completion of Test	: 01.07.2024
Quantity/No. of Sample (Preservation)	: Filter Paper: PM ₁₀ , PM _{2.5} , Abs. Soln. (30 mL/Parameter (Temp. 4 °C ± 2))		

Sampling Environmental Condition:

Temperature (°C)	: 30.4	Humidity (%)	: 48.0	Barometric Pressure (mm Hg)	: 743
------------------	--------	--------------	--------	-----------------------------	-------

RESULT TABLE

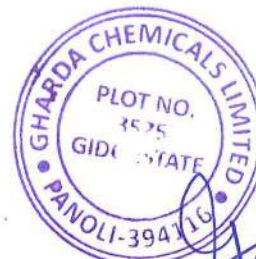
SR. NO.	PARAMETER	UNIT	DURATION OF SAMPLING	PERMISSIBLE LIMIT		RESULTS	TEST METHOD
				Time Weighted Average	Industrial, Residential, Rural and Others Area		
1	Particulate Matter (PM ₁₀)	µg/m ³	24.00 hrs	24.00 hrs	100.0	75.3	IS 5182 (Part-23):2006 (Cyclonic Flow Technique) Gravimetric Method
2	Particulate Matter (PM _{2.5})	µg/m ³	24.00 hrs	24.00 hrs	60.0	43.8	IS 5182 (Part-24):2019
3	Sulphur Dioxide (SO ₂)	µg/m ³	24.00 hrs	24.00 hrs	80.0	13.9	IS 5182 (Part-2):2001
4	Nitrogen Dioxide (NO ₂)	µg/m ³	24.00 hrs	24.00 hrs	80.0	15.5	IS 5182 (Part-6):2006

NOTE: 1. The test report cannot be reproduced in full or part without the approval of the laboratory.
2. Samples will be retained for a period of fifteen (15) days after issuing test report.

(Signature)
02/07/2024
(ANKIT TALAVIYA)
TESTED BY
(CO-TECHNICAL MANAGER)

(Signature)
02.07.24
(DR. HENIL LANKAPATI)
REVIEWED AND AUTHORIZED BY
(TECHNICAL MANAGER)

End of Test Report



Laboratory Department
Aqua-Air Environmental Engineers Pvt. Ltd.
(Pollution Control Consultants & Engineers)



GPCB Recognized Schedule II Environmental Auditor • ISO 45001:2018 Certified Company • ISO 9001:2015 Certified Company
 NABET (GCI) Accredited EIA Consultant • NABL Accredited Testing Laboratory • MOEFCC Approved Environmental Laboratory

F-LB-15/5.10/01-4

TEST REPORT

Customer's Name and Address

M/s. GHARDA CHEMICALS LTD.
 Plot No.: 3525, 3512-A, GIDC Estate,
 Panoli-394 116, Taluka: Ankleshwar, Dist.: Bharuch,
 Gujarat, INDIA

ISSUE DATE	02.07.2024
REF. NO.	AEE/140-A-1/2024
ULR NO.	--

Description of sample	: Gaseous Sample of Ambient Air	Lab ID Code	: 45-A/LB/24/AM ₁
Date of Sampling	: 03-04.06.2024	Sampling Time	: 10:15 am to 10:10 am
Description of Location	: NR. MMA TANK FARM	Duration of Sampling (Hrs)	: As per Result Table
Sample Collected By	: AEEPL TEAM (Mr. Lalji Ladumor, Sr. Scientist)	Sampling procedure	: As per IS method (As Listed Below)
Packing/Seal	: Sealed With Proper Identification	Protocol (Purpose)	: Monthly Monitoring (June-2024)
Test Parameters	: AS PER CC & A (GPCB)	Date of Starting of Test	: 05.06.2024
Sample Receipt Date	: 05.06.2024 (10:25 am)	Date of Completion of Test	: 06.06.2024
Quantity/No. of Sample (Preservation)	: Filter Paper: PM ₁₀ , PM _{2.5} , Abs. Soln. (30 mL/Parameter (Temp. 4 °C ± 2))		

Sampling Environmental Condition:

Temperature (°C)	: 29.8	Humidity (%)	: 48.7	Barometric Pressure (mm Hg)	: 746
------------------	--------	--------------	--------	-----------------------------	-------

RESULT TABLE

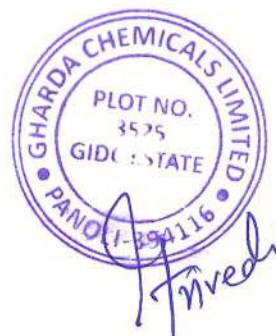
SR. NO.	PARAMETER	UNIT	DURATION OF SAMPLING	PERMISSIBLE LIMIT		RESULTS	TEST METHOD
				Time Weighted Average	Industrial, Residential, Rural and Others Area		
1	Particulate Matter (PM ₁₀)	µg/m ³	23.92 hrs	24.00 hrs	100.0	72.8	IS 5182 (Part-23):2006 (Cyclonic Flow Technique) Gravimetric Method
2	Particulate Matter (PM _{2.5})	µg/m ³	23.92 hrs	24.00 hrs	60.0	44.9	IS 5182 (Part-24):2019
3	Sulphur Dioxide (SO ₂)	µg/m ³	23.92 hrs	24.00 hrs	80.0	14.3	IS 5182 (Part-2):2001
4	Nitrogen Dioxide (NO ₂)	µg/m ³	23.92 hrs	24.00 hrs	80.0	15.4	IS 5182 (Part-6):2006

NOTE: 1. The test report cannot be reproduced in full or part without the approval of the laboratory.
 2. Samples will be retained for a period of fifteen (15) days after issuing test report.

(Signature)
 02/07/2024
(ANKIT TALAVIYA)
 TESTED BY
(CO-TECHNICAL MANAGER)

(Signature)
 02.07.24
(DR. HENIL LANKAPATI)
 REVIEWED AND AUTHORIZED BY
(TECHNICAL MANAGER)

-----End of Test Report-----



Laboratory Department
Aqua-Air® Environmental Engineers Pvt. Ltd.
(Pollution Control Consultants & Engineers)



GPCB Recognized Schedule-B Environmental Auditor • ISO 45001:2018 Certified Company • ISO 9001:2015 Certified Company
 NABET /OCI Accredited EIA Consultant • NABL Accredited Testing Laboratory • MOEFCC Approved Environmental Laboratory

F-LB-15/5.10/01-4

TEST REPORT

Customer's Name and Address
M/s. GHARDA CHEMICALS LTD.
 Plot No.: 3525, 3512-A, GIDC Estate,
 Panoli-394 116, Taluka: Ankleshwar, Dist.: Bharuch,
 Gujarat, INDIA

ISSUE DATE	02.07.2024
REF. NO.	AEE/140-A-2/2024
ULR NO.	--

Description of sample	: Gaseous Sample of Ambient Air	Lab ID Code	: 45-A/LB/24/AM ₂
Date of Sampling	: 07-08.06.2024	Sampling Time	: 11:15 am to 11:00 am
Description of Location	: NR. OHC	Duration of Sampling (Hrs)	: As per Result Table
Sample Collected By	: AEEPL TEAM (Mr. Lajji Ladumor, Sr. Scientist)	Sampling procedure	: As per IS method (As Listed Below)
Packing/Seal	: Sealed With Proper Identification	Protocol (Purpose)	: Monthly Monitoring (June-2024)
Test Parameters	: AS PER CC & A (GPCB)	Date of Starting of Test	: 10.06.2024
Sample Receipt Date	: 10.06.2024 (10:40 am)	Date of Completion of Test	: 11.06.2024
Quantity/No. of Sample (Preservation)	: Filter Paper: PM ₁₀ , PM _{2.5} , Abs. Soln. (30 mL/Parameter (Temp. 4 °C ± 2))		

Sampling Environmental Condition:

Temperature (°C)	: 29.2	Humidity (%)	: 49.2	Barometric Pressure (mm Hg)	: 746
------------------	--------	--------------	--------	-----------------------------	-------

RESULT TABLE

SR. NO.	PARAMETER	UNIT	DURATION OF SAMPLING	PERMISSIBLE LIMIT		RESULTS	TEST METHOD
				Time Weighted Average	Industrial, Residential, Rural and Others Area		
1	Particulate Matter (PM ₁₀)	µg/m ³	23.75 hrs	24.00 hrs	100.0	73.6	IS 5182 (Part-23):2006 (Cyclonic Flow Technique) Gravimetric Method
2	Particulate Matter (PM _{2.5})	µg/m ³	23.75 hrs	24.00 hrs	60.0	43.1	IS 5182 (Part-24):2019
3	Sulphur Dioxide (SO ₂)	µg/m ³	23.75 hrs	24.00 hrs	80.0	15.5	IS 5182 (Part-2):2001
4	Nitrogen Dioxide (NO ₂)	µg/m ³	23.75 hrs	24.00 hrs	80.0	17.9	IS 5182 (Part-6):2006

NOTE: 1. The test report cannot be reproduced in full or part without the approval of the laboratory.
 2. Samples will be retained for a period of fifteen (15) days after issuing test report.

(Signature)
 02/07/2024
(ANKIT TALAVIYA)
 TESTED BY
(CO-TECHNICAL MANAGER)

(Signature)
 02.07.24
(DR. HENIL LANKAPATI)
 REVIEWED AND AUTHORIZED BY
(TECHNICAL MANAGER)

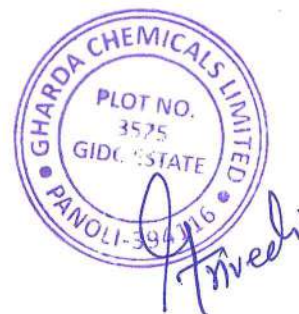
-----End of Test Report-----



(Signature)

HAZARDOUS WASTE DISPOSAL DETAILS (MT)

Month		Process waste	ETP Sludge/ MEE Salt/	Plastic waste/Empty Barrels		Inorganic Acids
						(Dilute Phosphoric Acid)
Category		26.1	35.3	33.1		B15
Consent Qty.		720	7196	623.56		13051.2
		MT/Year				
Apr-24	MT/Month	48.42	84.86	1. Plastic waste	7.25	389.48
				2. Drums (Nos)	505	
May-24	MT/Month	27.63	204.63	1. Plastic waste	2.23	411.03
				2. Drums (Nos)	1033	
Jun-24	MT/Month	54.06	52.9	1. Plastic waste	2.65	412.26
				2. Drums (Nos)	1855	
Jul-24	MT/Month	28.9	0	1. Plastic waste	3.82	457.86
				2. Drums (Nos)	2083	
Aug-24	MT/Month	37.65	0	1. Plastic waste	1.98	393.26
				2. Drums (Nos)	0	
Sep-24	MT/Month	38.46	0	1. Plastic waste	6.34	423.41
				2. Drums (Nos)	685	



LIST OF FIRST AID BOXES LOCATION:

SR. NO	LOCATION
1	Admin
2	ETP
3	ELECTRICAL
4	MAINTAINANCE
5	QC/QA
6	R & D ground floor
7	R & D second floor
8	PLANT 1A
9	PLANT 1C
10	PLANT 1D
11	PLANT 1E
12	PLANT 1B
13	POLYMER QC
14	INSTRUMENT
15	Polymer Compounding Lab
16	DEG MEE
17	Store
18	PEK
19	Utility
20	MEE
21	Fiber Lab
22	Coal yard Control Room



NOISE MEASUREMENT REPORT

Laboratory Department
Aqua-Air[®] Environmental Engineers Pvt. Ltd.
(Pollution Control Consultants & Engineers)



GPCB Recognized Schedule B Environmental Auditor • ISO 45001:2018 Certified Company • ISO 9001:2015 Certified Company
 NABET (OCI) Accredited EIA Consultant • NABL Accredited Testing Laboratory • MOETCC Approved Environmental Laboratory

F-LB-15/5.10/01-4

TEST REPORT											
Customer's Name and Address M/s. GHARDA CHEMICALS LTD, Plot No.: 3525, 3512-A, GIDC Estate, Panoli-394 116, Taluka: Ankleshwar, Dist.: Bharuch Gujarat, INDIA			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>ISSUE DATE</td> <td>02.07.2024</td> </tr> <tr> <td>REF. NO.</td> <td>AAE/140-11/2024</td> </tr> <tr> <td>ULR NO.</td> <td>--</td> </tr> </table>			ISSUE DATE	02.07.2024	REF. NO.	AAE/140-11/2024	ULR NO.	--
ISSUE DATE	02.07.2024										
REF. NO.	AAE/140-11/2024										
ULR NO.	--										
Description of Monitoring	NOISE MONITORING	Lab ID Code	45/LB/24/Noise								
Date of Monitoring	27.06.2024	Duration Of Sampling	10 Min./Location								
Description of Location	As per Result Table	Protocol (Purpose)	Monthly Monitoring (June-2024)								
Monitoring By	AAEPL TEAM (Mr. Lalji Ladumer, Sr. Scientist)	Date of Starting of Test	27.06.2024								
Sample Receipt Date	On site Testing	Date of Completion of Test	27.06.2024								
Test Method	Instrumental method (Make: Lutron, SLM-6001)										
Sampling Environmental Condition:											
Temperature (°C)	30.4	Humidity (%)	48.0	Barometric Pressure (mm Hg)	743						
RESULT TABLE											
SR. NO.	LOCATION & SAMPLING TIME (Hrs.)	NOISE LEVEL dB(A)									
		DAY TIME		NIGHT TIME							
		Min. dB(A)	Max. dB(A)	Min. dB(A)	Max. dB(A)						
CATEGORY : INDUSTRIAL AREA											
1.	NR. MAIN SECURITY GATE (Day Time: 11:05-11:15 / Night Time: 22:00-22:10)	56.7	58.3	53.9	55.2						
2.	NR. ETP AREA (Day Time: 11:30-11:40 / Night Time: 22:25-22:35)	61.4	62.6	59.5	61.0						
3.	NR. STORAGE AREA (Day Time: 11:45-11:55 / Night Time: 22:40-22:50)	63.8	65.2	61.4	63.7						
4.	NR. BOILER AREA (Day Time: 12:05-12:15 / Night Time: 23:00-23:10)	68.5	70.9	65.8	67.5						
NOTE:											
DURATION		CPCB PERMISSIBLE LIMITS IN dB (A)									
		Industrial Areas	Commercial Area	Residential Area	Silence Zone						
Day time (6 am to 10 pm)		≤75	≤65	≤55	≤50						
Night time (10 pm to 6 am)		≤70	≤55	≤45	≤40						
NOTE: 1. The test report cannot be reproduced in full or part without the approval of the laboratory.											
 (ANKIT TALAVIYA) TESTED BY (CO-TECHNICAL MANAGER)			 (DR. HENIL LANKAPATI) REVIEWED AND AUTHORIZED BY (TECHNICAL MANAGER)								

-----End of Test Report-----



MEMBERSHIP CERTIFICATE

RSPL
Recycling Solutions Pvt. Ltd

Certificate

Certificate No: CPAW1G0018

To Whomsoever it may concern
This is to certify that
GHARDA CHEMICALS LTD

PLOT NO. 3525 & 3512-A,
GIDC ESTATE,
PANOLI,
ANKLESHWAR

is a valid member of
Recycling Solutions Private Limited

for Alternate Fuel Resource Facility.
This membership is valid for a period of
10 Years

Date of issue 22/09/2015
Date of expiration 21/09/2025
Place of issue : Panoli

For, Recycling Solutions Private Limited
Director/Authorised signatory

Waste Information :			
SrNo	Type Of Waste	Sign Qty (TPA)	Sign Qty (TPA)
1	PROCESS WASTE	240.000	
Total Sign Qty (TPA) :			240.000

SUBJECT TO BHARUCH JURISDICTION

Site Address
Plot No. 223, GIDC Estate Panoli,
Panoli 394 116 (Dist. Bharuch), Gujarat
Phone : 02646 272029

Registered office
Block 132, 20, Tardeo Road, Haji Ali,
Mumbai 400 034, Maharashtra

Email
mail@rs-pl.com

Website
www.rs-pl.com





NARMADA CLEAN TECH LIMITED

(A Subsidiary of GIDC)

Surti Bhagor, Nr. Gujarat Gas Company, Umarwada Road, Ankleshwar - 393 001, Dist. Bharuch (Gujarat)

Tel. No. 02646-645285, 645635 E-mail : info@nctc.co.in, web site : www.nctc.co.in

Membership Certificate

Membership Certificate No. : P/M/E/D/G-12

Date : 23/02/2012

To Whomsoever it may Concern

This is to certify that

GHARDA CHEMICALS LIMITED

Located at

3525, 3512-A GIDC ESTATE, PANOLI-394116

is a valid Member for the Final Effluent Treatment Plant-FETP and conveyance system of NCTL.

The committed quantity for fresh raw water consumption (KLD):

660

The effluent discharge quantity as per GPCB-CCA (KLD):

290

The effluent discharge quantity booked at NCTL (KLD):

400

For & on Behalf of
Narmada Clean Tech Limited

Chief Executive Officer





BEIL INFRASTRUCTURE LIMITED
(Formerly Known As Bharuch Enviro Infrastructure Limited)

Ref. BEIL/ANK/2023

13TH NOVEMBER, 2023

To,
GHARDA CHEMICALS LTD.
PLOT No. 3525 & 3512-A,
GIDC,
PANOLI-394 116.

Sub: Membership Certificate for Common Solid Waste Disposal Facility.

Dear Sir,

We hereby certify that you have become member for **5 years up to 13/11/2028** for the common Solid/Hazardous waste disposal facility of BEIL Infrastructure Limited. (Formerly Known as Bharuch Enviro Infrastructure Limited.), at GIDC, Ankleshwar. You have booked solid waste quantity of **2500 MT/Years**. Your Membership No. is **PAN/002**.

Waste will be accepted after submitting valid authorization of GPCB.

- 1) **Total TSDF Capacity of BEIL Ankleshwar:** 5098000 MT
- 2) **Total Consented Capacity:** 5098000 MT
- 3) **Total Occupied Capacity:** 4122896.556 MT
- 4) **Spare Capacity:** 0975103.444 MT

Thanking you,

Yours faithfully,
For BEIL Infrastructure Limited.
(Formerly Known as Bharuch Enviro Infrastructure Limited.)


Mr. Manoj Patel
(Vice President - Operations)

CIN NO. U45300GJ1997PLC032696
Regd. Office : Plot No. 9701-16, GIDC Estate, Post Box No. 82, Ankleshwar - 393 002, Dist. : Bharuch (Gujarat)
Phones : (02646) 253135, 225228 • Fax : (02646) 222849 • E-mail : dalwadibd@beil.co.in • website : www.beil.co.in



PLI POLICY



Public Liability Act Insurance - Policy Schedule			
Policy Servicing Office : Off Code-2J,Future Generali India Insurance Co Ltd, 4th Floor, Windfall, Sahar Plaza Complex, Andheri Kurla Road, J.B.Nagar, Andheri (East), Mumbai, Maharashtra, Pincode- 400059, Tel No: -			
Policy No : L0256788	Period of Insurance : From 00:00 19/03/2024 To Midnight of 18/03/2025		
Insured Name : Gharda Chemicals Ltd.	Intermediary Name/Code : PIONEER INSURANCE & REINSURANCE BROKERS PVT LTD./60000074		
CKYC No. :	VISHWANATH.KOKATE@PINCINSURE.COM		
Address : 48 GHARDA HOUSE RAMDAS, NAYAK ROAD Mumbai Suburb, an MUMBAI MH IN 40005, Mumbai, Maharashtra, 400050	Telephone(Mob,Hom) : 2266188500/2266188500	Email Id : VISHWANATH.KOKATE@PINCINSURE.COM	
GSTIN Number : 27AAACG1255E1Z1	FGI GSTIN Number : 27AABCF0191R2Z8		
In consideration of the Policy holder named here in paying to the Future Generali India Insurance Company Limited (herein after called the Insurer) the premium as stated in the Schedule and in reliance upon the statements made by the Policy holder in the proposal including its attachments or otherwise, and the material incorporated therein, the Insurer agrees to provide insurance against loss damage liability or expense to the extent and in the manner herein provided subject to all terms, conditions, exceptions and warranties herein after set forth.			
Co-insurance Details		Schedule Of Premium (₹)	
Insurer	Share (In %)	Gross Premium	15,383.00
Future Generali India Insurance Company Limited	100%	Goods and Service Tax	2,768.94
		Contribution to Environment relief fund	15,383.00
		Total Premium	33,535.00
Risk Details			
Insured Business Description :	Manufacturing of agrochemicals, chemicals		
Property Situated At :	All Locations across India is covered		
Territory/Jurisdiction :	India		
Hypothecation :	N.A.		
Retroactive date :			
Turnover / Revenue :			
Type of Basis :	Claim made basis		
AOA/AOY Ratio :	1:3		
Limit of Indemnity			
	Any One Accident	Aggregate during the Policy Period	
Limit of Indemnity	50,000,000.00	150,000,000.00	
Deductibles			
Extensions, Conditions, Warranties			
Nature of work - Manufacturing of agrochemicals, chemicals, intermediates, high performance polymers and pigments			
Risk Location - All Locations across India is covered			
Turnover-INR 32,00,00,00,00,000			
As per policy wordings			
Sanction Limitation Clause			
Warranted that any excess placement over the Limit of liability shall be with the express consent of Future Generali.			
SANCTIONS LIMITATION AND EXCLUSION CLAUSE			
We shall not be deemed to provide cover and shall not be liable to pay any claim or provide any benefit hereunder to the extent that the provision of such cover, payment of such claim or provision of such benefit would exposit that to us to any sanction, prohibition or restriction under United Nations resolutions or the trade or economic sanctions, laws or regulations of the European Union, United Kingdom or United States of America.			
Extensions/ Conditions/ Warranties with Sub limit			
Extensions/ Conditions/ Warranties	Date	Sub limit	
Exclusion			
Absolute Cyber Liability Exclusion			
Communicable Disease Exclusion			
IMPORTANT - 1. All other Terms, Conditions and Exclusions as per Policy Wordings. 2. For complete terms, conditions and exclusions, please visit https://general.futuregenerali.in/customer-service/downloads/ 3. For any redressal of grievance and for escalation matrix https://general.futuregenerali.in/customer-service/grievance-redressal 4. If the payment of premium amount has been made through a cheque or in online mode and (i) such cheque is dishonoured, for any reason whatsoever, upon presentation, or (ii) the online payment does not yield a credit to the bank account of FGI, or (iii) the policyholder reverses the premium amount through a chargeback, the insurance cover evidenced through this policy schedule shall stand cancelled, from its inception, with immediate effect, irrespective of whether a separate communication is sent by FGI or not.			
For FUTURE GENERALI INDIA INSURANCE CO. LTD.			
Receipt No : Y9882955			
Date of Issue : 12/04/2024			
Place of Issuance : Mumbai			
*Address as mentioned below.			
(Authorized Signatory)			
Note: This document is digitally signed by Mr. Vaibhav Risbud, Authorised Signatory of Future Generali India Insurance Company Limited on 12/04/2024			

Stamp Duty of Rs. 0.50 is paid as provided under Article Policy of Insurance 47B of Indian Stamp Act, 1899 and included in Consolidated Stamp Duty Paid to the



Future Generali India Insurance Company Limited, Registered and Corporate Office address: 801 and 802, 8th Floor, Tower C, Embassy 24X7 Park, L.B.S. Marg, Vikhroli - West, Mumbai, Maharashtra - 400083 Care Line:- 1800-220-233, 1860-500-3333, 022-67837800, Email: fgicare@futuregenerali.in, Website: www.futuregenerali.in IRDA Regn.No. 132, CIN - U66030MH2006PLC165287.



ANNEXURE	
Attached hereto and Forming Part of Policy No 2024-L0256788 -PII	
Sr No.	List of Plants
1	Plot B-22 to B-24, B-26 to B-29,A-81 to A-84 and D-15, Phase-1 MIDC. Dombivili (East) District Thane -421203, Maharashtra.
2	D-1/2, and adjoining plots, MIDC, Lote Parshuram, Taluka Khed, District: Ratnagari -415722, Maharashtra.
3	Plot No. 3525 and 3512A, GIDC Industrial Estate. Panoli -394 116 District: Bharuch, Gujarat.
4	Phase II, Industrial Growth Centre, SIDCO, District - Samba, Jammu & Kashmir. Pin: 184121,
5	Gujarat Insecticides Ltd. (Subsidiary) Plot No. 805-806 GIDC Estate. Ankleshwar - 393002 Gujarat.
6	Gharda Chemicals Ltd, Plot No C-4/1/MIDC Kherdi, Tal: Chiplun, Dist: Ratnagiri Pin: 415604.
7	Plot No. F1/1, MIDC, Lote Parshuram, Taluka Khed, District: Ratnagari, Maharashtra.
8	Plot No. F-1, MIDC, Lote Parshuram, Taluka Khed, District: Ratnagari, Maharashtra.
9	Plot No. B1/7, MIDC, Lote Parshuram, Taluka Khed, District: Ratnagari, Maharashtra.
10	Plot No. B1/6, MIDC, Lote Parshuram, Taluka Khed, District: Ratnagari, Maharashtra.
11	Plot No: D-1/1, MIDC, Lote Parshuram, Taluka Khed, District: Ratnagari, Maharashtra.
12	Plot No. C-393 to C-396, Sayakha GIDC Industrial Estate, (Argama Zone) Taluka Vagra, PIN Code: 392 012 District Bharuch Gujarat
13	Revenue Survey Nos. 572, 573, 574, 575, 576, 582, 583/P, Payal Industrial Park, Village: Pakhajan, Taluka: Vagra and District: Bharuch- 392165



PESO LICENSE

GHARDA CHEMICALS LIMITED, PANOLI



भारत सरकार
Government of India
वाणिज्य और उद्योग मंत्रालय
Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)
Petroleum & Explosives Safety Organisation (PESO)
ए-1 और ए-2 विंग, पांचवा तल, केन्द्रीय कार्यालय परिसर, सी.बी.डी. नवनापुर
नवी मुंबई (महा.)- 400614
A1 & A2 wing, 5th Floor, C.G.O. complex, CBD Belapur, Navi Mumbai (M.S.),
Mumbai - 400614

E-mail jtccemumbai@explosives.gov.in
Phone/Fax No 022 - 27575946,27573881

संख्या /No. P/HQ/GJ/15/5317 (P189393)

दिनांक /Dated 29/12/2015

सेवा में /To,

M/s. Gharda Chemicals Limited,
Plot No. 3535 & 3512-A, G.I.D.C. Industrial Esta,
Panoli,
Panoli,
Ankleshwar,
Taluka: Ankleshwar,
District: BHARUCH,
State: Gujarat
PIN: 394116

विषय /Sub: Plot No. 3525, G.I.D.C. Industrial Estate Panoli, Panoli, Taluka: Ankleshwar, District: BHARUCH, State: Gujarat, PIN: 394116 में स्थित विद्यमान पेट्रोलियम वर्ग A अधिष्ठापन में अनुमति सं P/HQ/GJ/15/5317 (P189393) के नवीकरण के संदर्भ में।
Existing Petroleum Class A Installation at Plot No. 3525, G.I.D.C. Industrial Estate Panoli, Panoli, Taluka: Ankleshwar, District: BHARUCH, State: Gujarat, PIN: 394116 - Licence No. P/HQ/GJ/15/5317 (P189393) - Renewal regarding

महोदय /Sir
(s).

कृपया आपके पत्र क्रमांक OIN35692 दिनांक 14/12/2015 का अवलोकन करें।
Please refer to your letter No. OIN35692, dated 14/12/2015

अनुमति संख्या P/HQ/GJ/15/5317 (P189393) दिनांक 24/03/2014 को दिनांक 31/12/2025 तक नवीनीकृत कर इस पत्र के साथ अर्पित की जा रही है।

Licence No. P/HQ/GJ/15/5317 (P189393) dated 24/03/2014 is forwarded herewith duly renewed upto 31/12/2025

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें। अनुमति के नवीकरण हेतु सम्स्त दस्तावेजों को अनुमति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व Dy. Chief Controller of Explosives, Vadodara कार्यालय को प्रेषित करें।

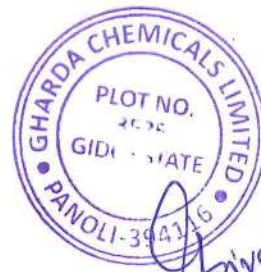
Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to Dy. Chief Controller of Explosives, Vadodara, so as to reach his office on or before the date on which Licence expires

कृपया पावती दें।
Please acknowledge the receipt

भवदीय /Yours faithfully,


(एस.के.शुक्ला)
(S K Shukla)
उप मुख्य विस्फोटक नियंत्रक
Dy. Chief Controller of Explosives
कुले संयुक्त मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
नवी मुंबई (महा.)
M

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : <http://peso.gov.in> देखें)
(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)



FIRE AND SAFETY DETAILS

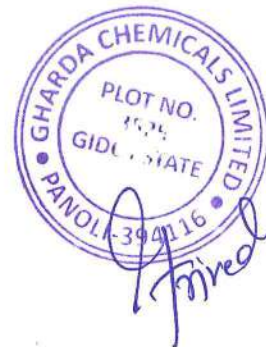
FIRE PUMP HOUSE							
Sr. no	Pump	Capacity	Head	RPM	HP	Pump Make	Motor Make
1	Jockey Pump (1)	15 M ³ /H	88 M	2900	10	Kirloskar	Apex
2	Jockey Pump (2)	15 M ³ /H	88 M	2900	20	Kirloskar	Apex
3	Main Pump	273 M ³ /H	88 M	2970	150	Kirloskar	Apex
4	Diesel Pump	273 M ³ /H	80 M	2300		Kirloskar	Kirloskar
5	Water tank capacity	1300 KI					

Sr. no	Name	Qty.
1	Fire Extinguisher	420 Nos
2	Fire Hydrant Post	83 Nos
	Fire Escape Hydrant	111 Nos
3	Hose Reel Hose	98 Nos
4	Fire Hose Box	175 Nos
5	Hose Pipe (15 M)	295 Nos
6	Foam Water Monitor	03 Nos
7	Portable Water Monitor	02 Nos
8	Sort Nozzle	195 Nos
9	FB 10X Foam Nozzle	5 Nos
10	FB 5X Foam Nozzle	04 Nos
11	Jumbo Cutter Nozzle	02 Nos
12	Avenger Nozzle (T.P)	06 Nos
13	Foam Trolley	04 Nos
14	Spare Foam AFFF 20 litre	27 Nos
15	Spare Foam ARFFF 20 litre	70 Nos
16	4 Way Inlet Collecting Breeching	02 Nos
17	Deluge Valve Sprinkler System	03 Nos
18	Manual Call Point (MCP)	59 Nos
19	Smoke Detector	171 Nos
20	Spare Fire Extinguishers Fireman Offices	10 Nos
21	S.C.B.A Set	27 Nos
22	Spare S.C.B.A Cylinder	07 Nos
23	Breathing Airline hood	34 Nos
24	Safety Shower	53 Nos
25	Wind sock	07 Nos
26	Sand Bucket Stand	09 Nos



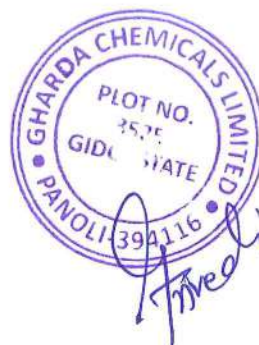
CHEMICAL STORAGE TANK DETAILS

Sr. No	Storage tank	Capacity (KL)	Qty.
1	PHOSPHORIC ACID	11 KL	01
2	HYDROCHLORIC ACID -A	10 KL/15 KL	02
3	ISO BUTYL ALCOHOL	11 KL	01
4	MONO CHORO BENZENE	11 KL	01
5	NITRIC ACID(GRADE C)	11 KL	01
6	SULPHURIC ACID	10 KL	01



MODULES OF SAFETY TRAINING

Sr. No.	Training Topic
1	On site Emergency Plan
2	Hazard Identification Risk Assessment (HIRA)
3	Job Safety Analysis (JSA)
4	BBS -Behaviour Based Safety.
5	Electrical Hazards
6	Static Electricity
7	Hazard Communication (HAZCOM)
8	Compressed Gas Cylinder Safety
9	Pressure Relief System
10	Safe handling of chemicals
11	Hot work safety
12	Fire safety awareness
13	Line break safety
14	Work At Height
15	Confined space entry
16	Training on SCBA set
17	Emergency kit handling
18	Material Safety Data Sheet
19	Training on work permit system
20	Dust Explosion Causes & Preventive Measures
21	Manual material handling
22	Usage of Personal Protective Equipment
23	Scaffolding safety
24	General safety awareness
25	Defensive Driving for drivers



FORM NOS.32 & 33

MEDICAL DEPARTMENT
GHARDA CHEMICALS LIMITED
Plot No.3525 & 3512 GIDC Estate Panoli,394 116, Dist- Bharuch

1. Serial Number in the Register of adult workers : 526

2. Name of Worker : Jadhao Dhiraj Ishwariji Sex : male 4. Date Of Birth : 15/04/2001

Department Works	Name of Hazardous Process	Dangerous Process / Operation	Nature of job or Occupation	Raw Material Products or by Production likely to be exposed to	Date of Posting	Date of Leaving/ Transfer to or transfer	Reasons for discharge/ leaving transfer
1	2	3	4	5	6	7	8
R&D Polymer	AS per Annexure III	-	Management Trainee	-	03/07/23	-	-

FORM NO. 32
(Prescribe under Rules 68 T and 102)
HEALTH REGISTER

Medical examination and the result thereof				If declared Unfit for work				Signature with Date of the Factory Medical Officer the Certifying Surgeon
Date	Signs and symptoms observed during examination	Nature of test & results thereof	Result Fit / Unfit	Period of temporary withdrawal from that work	Reason for such withdrawal	Date of declaring him unfit for that work	Date of issuing fitness certificate	
9	10	11	12	13	14	15	16	17
15/04/24	Nil	AS per P.M.E. Report	Fit	-	-	-	-	DR. NAIK S. MODI M.B.B. Occupational Health Officer Gharda Chemicals Ltd. P. No. 3525/3512 GIDC, Panoli-394116.



GUJ. GOVT. GAZETTE
EX., 15-2-1995
PART IV-A PAGE 25-222

FORM NO. 33

(Proscribed under Rule 68-T AND 102)

Certificate of Fitness of employment in hazardous process and Operations.

(TO BE ISSUED BY FACTORY MEDICAL OFFICER)


1. Serial number in the register of adult workers : 526
પુસ્તક વચ્ચેના સરક. નો ક્રમ નંબર
2. Name of the person examined : Jadhav Dhiraj
નામ
3. Father's Name : Jadhav Ishwarbhai
પિતાનું નામ
4. Sex : male
જાતી
5. Residence : Chikheda Gad. P. Girdar T- Mangarudra B. Washima Maharastra
રહેઠાણ
6. Date of birth, if available : 15/1/1971
જન્મ તારીખ
7. Name & address of the factory : G-CL Panoli
ફેક્ટરીનું સરનામું
8. The worker is employed/proposed : _____
કામદાર કેવા કામ કરતો કરતો ?
(a) Hazardous process : _____
ભયજનક પ્રક્રિયા ?
(b) Dangerous operation : _____
જોખળી પ્રક્રિયા ?

I certify that I have personally examined the above named person whose identification marks are...left hand...and who is desirous of being employed in above mentioned process/operation and that his/her, age, as can be ascertained from my examination, is22..... years.

In my opinion he is fit for employment in the Said manufacturing process/operation.

In my opinion he/she is unfit for employment in the said manufacturing process/operation for the reasonHe/She is referred for further examination to the Certifying Surgeon.

The serial number of previous certificate is



Signature or left hand thumb
impression of the person examined :


DR. NAITIK S. MODI
M.B.B.S. (1975-61570)
Signature of the Factory Medical Officer :
Gharda Chemicals Ltd.
P. No. 3525/3512-A, GIDC, Panoli-394116.

Stamp of factory
Medical Officer with

Name of the Factory :




Directorate Industrial Safety & Health
Gujarat State
FORM NO. 4
(Prescribed under Rules 5)
License to work a factory

Registration No. 593/24224/1997
FIN. S06015404A

License No. 15404
D.A. 06-Mar-1997

License is hereby granted to
Mr. DIWAKAR K. SHENOY
For the premises known as
GHARDA CHEMICALS LIMITED
situated at
PLOT NO.3525 & 3512-A GIDC PANOLI TAL-ANKLESHWAR DIST-BHARUCH
Ta.: Anklesvar Dist.: Bharuch


for use as a factory within the limits specified in the plan approved by the
Joint Director Industrial Safety and Health, Surat Region
vide No. 1230 Date 11-Dec-1996 subject to provisions of the
Factories Act, 1948 and the Rules made thereunder.

The license is issued for:

- Maximum Number of workers to be employed on any day during the Year : ****1,000****
- Maximum installed power in B.H.P. on any day during the year : **** Above 5000****

The license is valid up to 31st December 2029,

Fees paid Rs. **264,000.00**
Fees due Rs. **264,000.00**
Excess Rs. **0.00**
Place : **Bharuch**
Date : **18-Nov-2024**



Signature valid
Digitally signed by VASANTO PAKKURWAR
KANTILAL
Date: 2024.11.18 11:48:51
Reason: Approval
Location: Bharuch

Deputy Director
Industrial Safety and Health
Bharuch



CSR ACTIVITY

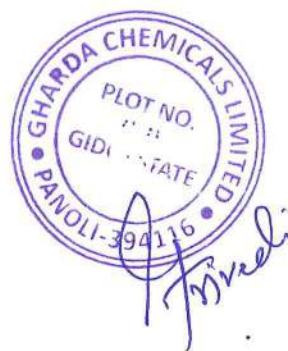
STATEMENT OF CSR EXPENSES INCURRED DURING (October 2023 to March 2024)

Sr. No	CSR Activities	SECTOR IN WHICH THE PROJECTS ARE COVERED	AMOUNT SPENT Rs.
1	Livestock Development Programme	Promoting Livelihood	Rs.8,57,565/-
2	Menstrual Hygiene Management Project	Promoting Health	Rs.2,14,300/-
TOTAL			10,71,865/-



PROCESS STACK DETAILS

Sr. No.	Stack Attached To	APCM	Height (meter)	Parameter	Permissible limit
1	HCl Scrubber Vent # 1	Alkali Scrubber, Water Scrubber	12	HCl	20 mg/Nm ³
2	HCl Scrubber Vent # 2	Alkali Scrubber, Water Scrubber		Cl ₂	09 mg/Nm ³
3	Scrubber System-1 Plant 1 – B (PEKK)	Water + Caustic scrubber	20	HCl	16 mg/Nm ³
4	Scrubber System-2 Plant 1 – B (PEK)	Water + Caustic scrubber	20	SO ₂	32 mg/Nm ³
5	Scrubber System-3 Plant 1 – B (ABPBI)	Water + Caustic scrubber	20	HCl	16 mg/Nm ³
6	Scrubber System-4 Gafast Pigment Yellow-151/154	Two stage Water + Caustic trap	20	SO ₂	32 mg/Nm ³
				HCl	16 mg/Nm ³



FLUE GAS STACK DETAILS

Sr. No	Source of Emission	APCM	Stack Height (meters)	Parameter	Permissible limit
1	Boiler (5 TPH) – 01 (Stand By)	--	20	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
2	Boiler (5 TPH) – 02 (Stand By)				
3	Boiler (2 TPH) – 03 (Stand By)				
4	Thermic Fluid Heater-1 (4 lakh kcal/hr.)	--	11	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
5	Thermic Fluid Heater-2 (6 lakh kcal/hr.)	--	30	PM SO ₂ NO _x	120 mg/Nm ³ 80 ppm 40 ppm
6	Gas Based Gen. set (750 KVA)	--	15	PM SO ₂ NO _x	120 mg/Nm ³ 80 ppm 40 ppm
7	DG set (750 KVA)	--	15	PM SO ₂ NO _x	120 mg/Nm ³ 80 ppm 40 ppm
8	DG set (750 KVA)	--	15	PM SO ₂ NO _x	120 mg/Nm ³ 80 ppm 40 ppm
9	Coal Fired Boiler (15 TPH)	ESP +Wet scrubber	33	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm



GPCB CCA



GUJARAT POLLUTION CONTROL BOARD

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

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A) CCA NO: AWH- 121537

By R.P.A.D.

NO: GPCB/ANK/CCA-272(13)/ID-15117/683337DT: 06/10/2022

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

And whereas Board has received consolidated application dated **17/07/2022** and inward no. **257999** 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. GHARDA CHEMICALS LTD.,
PLOT NO:3525,3512-A,
GIDC ESTATE PANOLI,
DIST-BHARUCH.

- Consent Order No. : AWH-121537 date of Issue 20/09/2022.
- The consent under Water Act-1974 for conveying the industrial effluent to the CETP of M/s. NCT for the treatment and disposal of treated effluent, The consent under Air Act-1981 & Authorization under Environment (Protection) Act, 1986 shall be **valid up to 02/07/2027** to operate industrial plant to manufacture following products:

Sr. No.	Products	Quantity (MT/Month)
1	Gafast Pigment Violet 23	80
	Gafast Pigment Yellow 138	
	Gafast Pigment Violet 19	
	Gafast Pigment Red 122	
	Gafast Pigment Red 254/255	
	Gafast Pigment Yellow 139	
2	Gafast Pigment Yellow 151/154	10
	Poly Ether Ketone (PEK)	
	Poly Ether Ketone Ketone (PEKK)	
3	Polybenzimidazole (ABPBI)	30
	Pigment Violet-23	
4	Poly ether sulfone (PES)	10
	Poly Sulfone (PSU)	
5	Polyphenyl Sulfone (PPSU)	15
	Poly Ether Imide (PEI)	
6	Pigment Red	5.8

Clean Gujarat Green Gujarat

Page 1 of 13
Website : <https://gpcb.gujarat.gov.in>



7	Pigment Yellow	2.5
	Total	153.3
8	Captive power plant (stand by)	2250 KVA

Specific conditions as per Dual Discharge Policy

- Unit shall strictly follow dual discharge policy and maintain records for each kind of effluent stream.
- Unit shall follow ZLD conditions for expansion and shall make above ground pipeline network for ZLD system.
- Unit shall provide separate energy meter for ZLD scheme and maintain logbook for the same.
- Unit shall provide flow meter at inlet and outlet of ZLD system and maintain daily record of the same.
- Unit shall maintain record of reuse / recovery of Industrial waste water.
- Unit shall maintain record about stream wise industrial wastewater generation – treatment and disposal.
- Unit shall convey effluent by GPS mounted vehicle to outside CMEE facility to maintain ZLD. Also unit shall install fixed pipeline with flow meter.

Specific conditions:

- Unit shall comply with all the conditions stipulated by SEIAA in the order of Environment Clearance issued vide letter no. SEIAA/GUJ/EC/5(f)/678/2018, dated: 30/06/2018.
- Unit shall use fresh raw material only.
- Unit shall sell out their hazardous waste to authorized endusers who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized endusers and submit MoU.
- All the efforts shall be made to send hazardous waste to cement industry for Co- processing first & there after it shall be disposed through other option.
- Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.
- Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.
- Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.
- Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.
- Unit shall comply with additional condition for CPA/SPA areas as per GPCB office order dated: 11/11/2019.

[A] Additional conditions under Air Act:

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



[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 quantity of total water consumption shall not exceed **1303 KL/Day** as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.
 - a) Industrial: 1223 KL/Day
 - b) Domestic: 45 KL/Day
 - c) Gardening: 35 KL/Day
- 3.2 The quantity of total waste water generation shall not exceed **646 KL/Day** as per below break up as mentioned in form D submitted for consent application under the Water Act- 1974.
 - a) Industrial: 606 KL/Day
 - b) Domestic: 46 KL/Day
- 3.3 Mode of disposal:
 - a) 286 KLD treated effluent shall be discharged to NCT pipeline.





GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

- b) 259 KLD effluent generated from process shall be treated in upgraded ETP/MEE/RO and will be recycled to maintain ZLD condition.
- c) 61 KLD wastewater shall be generated from boiler operations- 25 KLD from boiler RO system cleaning + 36 KLD boiler RO reject. 25 KLD RO CIP wastewater shall be treated in RO and shall be recycled. 36 KLD boiler RO reject shall be utilized in boiler wet scrubber and then scrubber effluent shall be sent to MEE for treatment and treated effluent shall be recycled.
- d) Sewage shall be treated separately in Sewage Treatment Plant (STP) to conform the following standards and treated sewage shall be utilized on land for green belt maintenance.

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

- 3.4 The quality of industrial effluent shall conform to the following standards (as per GPCB norms, whichever is applicable) (For discharge into CETP- NCT)

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	pH	6.5 to 8.5
2	Temperature	40° C
3	Colour (Pt.co.scale)	100 units
4	Total Suspended Solids (TSS)	150 mg/l
5	Total Dissolved Solids (TDS)	10000 mg/l
6	Biochemical Oxygen Demand, BOD ₃ , 27° C	200 mg/l
7	Chemical Oxygen Demand (COD)	1000 mg/l
8	Oil and Grease(O & G)	10 mg/l
9	Phenolic Compounds (as C ₆ H ₅ OH)	5 mg/l
10	Sulphide (as S)	5 mg/l
11	Ammonical Nitrogen (as N)	50 mg/l
12	Total Kjeldahl Nitrogen (as N)	50 mg/l
13	Phosphate (as P)	5 mg/l
14	Chlorides (as Cl)	1000 mg/l
15	Sulphates (as SO ₄)	1000 mg/l
16	Cyanide (as CN)	0.2 mg/l
17	Fluoride (as F)	15 mg/l
18	Hexavalent Chromium (as Cr+6)	0.1 mg/l
19	Total Chromium (as Cr)	2 mg/l
20	Copper (as Cu)	3 mg/l
21	Nickel (as Ni)	3 mg/l
22	Zinc (as Zn)	15 mg/l
23	Iron (as Fe)	3 mg/l
24	Manganese (as Mn)	2 mg/l
25	Mercury (as Hg)	0.01 mg/l
26	Lead (as Pb)	0.1 mg/l
27	Arsenic (as As)	0.2 mg/l
28	Venedium (as V)	0.2 mg/l

Clean Gujarat Green Gujarat

Page 5 of 13

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



29	Cadmium (as Cd)	0.05 mg/l
30	Selenium (as Se)	0.05 mg/l
31	Bio-assay test	90 % Survival of fish after 96 hours in 100 % effluent
32	Insecticides/ Pesticides	Absent

- 3.5 The effluent conforming to the above standards shall be discharged into G.I.D.C. underground drainage system and conveyed to FETP (NCT) which ultimately leads to deep sea for final disposal through pipeline.
- 3.6 Unit shall be required to make storage facilities to store the effluent for at least 72 hours by providing acid proof brick lined impervious tanks/HDPE tanks.
- 3.7 In case of shut-down of plant for more than three (3) days for any reason, the NCT unit member shall intimate to NCT authority & GPCB well in advance for the better operation & management of CETP.
- 3.8 Unit shall make fixed arrangement for discharge of the effluent from their Final collection tanks to the underground drainage network of NCT. Unit shall not keep any by-pass line or system or loose or flexible pipe line for discharge of the effluent into underground drainage network of NCT.
- 3.9 Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks/ETP to measure the quantity of effluent discharged into the underground drainage network of NCT.
- 3.10 Unit shall affix of water meters as per Section 4 (1) of the water (Prevention and Control of Pollution) Cess Act - 1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.
- 3.11 Unit shall provide adequate / safe effluent sampling facility for the effluent being stored in final collection / discharge tank of ETP or being discharged into CETP.
- 3.12 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process, the name of proprietor/partners /directors of the unit, NCT membership number & date of joining of NCT, the electricity consumer number as on the record of DGVCL.
- 3.13 Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.
- 3.14 Unit shall either stop or curtail its production activities if the effluent is not adequately treated by the FETP of NCT to conform to the standards specified by GPCB.





GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

- 3.15 The authorized representative of NCT shall have right of entry at any time for the purpose of inspection and monitoring the effluent collection facilities/ETP (if required) of Unit.
- 3.16 Unit shall have to keep accurate records of quality & quantity of effluent discharged to FETP on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as & when asked.
- 3.17 Unit shall keep accurate records of quantity of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on day to day basis and required to submit the complied record of each month to GPCB on or before fifth day of the succeeding month.
- 3.18 In case of incinerators or MEE, the flow measuring devices for mother liquor/ toxic effluent/ Non-biodegradable effluent, light diesel oil, Furnace oil, etc. i.e. fuel used for combustion, air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.
- 3.19 Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.
- 3.20 Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent and final treated effluent shall be discharged to the CETP of NCT.
- 3.21 If the NCT authority terminates the membership of CETP, the NCT member unit shall have to close down the manufacturing activities/industrial operation of the process plant immediately until the NCT membership is resumed.
- 3.22 The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environment safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell / Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. 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 June every year.
- 3.24 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.
- 3.25 In case of change of ownership/ management the name and address of the new ownership/ partners/ directors/ proprietor should immediately be intimate to the Board. Also any

Clean Gujarat Green Gujarat

Page 7 of 13
Website : <https://gpcb.gujarat.gov.in>



change in equipment or working conditions as mentioned in the consents form/ order should immediately be intimated to this Board.

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

4. CONDITIONS UNDER THE AIR ACT:

- 4.1 The following shall be used as fuel:

Sr. No.	Name of fuel	Quantity
1	Natural Gas OR HSD	1210 SM ³ /hr OR 995 Liter/hr.
2	HSD	440 Liter/hr.
3	Natural Gas	225 SM ³ /hr.
4	Coal	2300 Kg/hr

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

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
1	Boiler-1 (5 TPH) (stand by)	20		PM	150 mg/Nm ³
2	Boiler-2 (5 TPH) (stand by)			SO ₂	100 ppm
				NO _x	50 ppm
3	Boiler-3 (2 TPH) (stand by)	11		PM	120 mg/Nm ³
				SO ₂	80 ppm
4	Thermic Fluid Heater-1 (4 lakh kcal/hr.)	30		NO _x	40 ppm
				PM	150 mg/Nm ³
5	Thermic Fluid Heater-2 (6 lakh kcal/hr.)	15		SO ₂	100 ppm
			NO _x	50 ppm	
6	Gas Based Gen. set (750 KVA)	15	PM	120 mg/Nm ³	
			SO ₂	80 ppm	
7	DG Set (750 KVA)	15	NO _x	40 ppm	
			PM	120 mg/Nm ³	
8	DG set (750 KVA)	15	SO ₂	80 ppm	
			NO _x	40 ppm	
			PM	120 mg/Nm ³	





GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

9	Coal Fired Boiler (15 TPH)	33	ESP + Wet scrubber	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50 ppm
---	-------------------------------	----	--------------------	--	---

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

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
1	HCl Scrubber Vent #1	12	Alkali Scrubber, Water Scrubber	HCl	20 mg/Nm ³
2	HCl Scrubber Vent #2			Cl ₂	9 mg/Nm ³
3	Scrubber System-1 Plant 1-B (PEKK)	20	Water + Caustic Scrubber	HCl	16 mg/Nm ³
4	Scrubber System-2 Plant 1 - B (PEK)	20		SO ₂	32 mg/Nm ³
5	Scrubber System-3 Plant 1 - B (ABPBI)	20	Water + Caustic Scrubber	HCl	16 mg/Nm ³
6	Scrubber System-4 Gafast Pigment Yellow-151/154	20		SO ₂	32 mg/Nm ³
			Two stage Water + Caustic trap	HCl	16 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 /m ³)	
		Annual	24 Hours Average
1.	Particulate Matter (PM ₁₀)	60	100
2.	Particulate Matter (PM _{2.5})	40	60
3.	Oxides of Sulphur (SO _x)	50	80
4.	Oxides of Nitrogen (NO _x)	40	80

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

Clean Gujarat Green Gujarat

Page 9 of 13
Website : <https://gpcb.gujarat.gov.in>



- 4.4 Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.
- 4.5 The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.
- 4.6 Unit shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4.7 Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.
- 4.8 All efforts shall be made to control VOC emissions and odor problem, if any.

5 GENERAL CONDITIONS: -

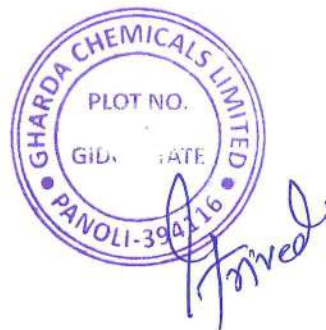
- 5.1 In case of change of ownership/ management the name and address of the new ownership/ partners/ directors/ proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form/ order should immediately be intimated to this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

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

6.1 Number of authorization: **AWH-121537 date of Issue 20/09/2022**

6.2 **M/s. GHARDA CHEMICALS LTD.** is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at **PLOT NO: 3525,3512-A, GIDC ESTATE PANOLI, DIST: BHARUCH.**

Sr. No.	Name of Haz. Waste	Category Number	Quantity in MT/Year	Facility
1	Process waste from pigment	26.1	720	Collection, Storage, Transportation and disposal to CHWIF for Incineration OR for Pre-processing/ Co-processing /Cement Industries facilities.
2	Empty barrels/ containers/ liners/ contaminated with hazardous chemicals/ waste	33.1	623.56	Collection, Storage, Decontamination, Transportation and Disposal by reuse after in-house decontamination or send it to authorized decontamination facility / recycler or send back to supplier.
3	Other wastes, Contaminated Dust, Cotton	34.1	60.6	Collection, Storage, Transportation and disposal to CHWIF for Incineration OR for Pre-





GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

	Waste			Pre-processing/ Co-processing /Cement Industries facilities.
4	ETP sludge + MEE Salt	35.3	7196	Collection, storage, transportation and disposal by sent to common TSDF.
5	Oily waste	35.4	264	Collection, Storage, Transportation and disposal to CHWIF for Incineration OR for Pre-processing/ Co-processing /Cement Industries facilities.
6	Used or Spent Oil	5.1	50.4	Collection, Storage, Transportation and Disposal by Reuse in plant & machinery as lubricant or sell it to authorized re-refiners / recycler.
7	Spent Acetic acid/ Phosphoric acid	B15	Spent Acetic acid-307.2	Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
			Spent Phosphoric acid-13051.2	
8	Process Residue	36.1	510	Collection, Storage, Transportation and disposal to CHWIF for Incineration OR for Pre-processing/ Co-processing /Cement Industries facilities.
9	Spent Carbon	36.2	200	Collection, Storage, Transportation and disposal to CHWIF for Incineration OR for Pre-processing/ Co-processing /Cement Industries facilities.
10	Ammonium acetate 10%	A10	255	Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
11	Sodium sulphate-10%	---	682	Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
12	Sodium bisulfite (25-30%)	B23	677	Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.

Clean Gujarat Green Gujarat

Page 11 of 13
Website : <https://gpcb.gujarat.gov.in>



13	Calcium chloride- 20-30%	B10	767	Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
	Aluminium Chloride-22%		829	Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
14	Calcium sulfate- 92%	--	358	Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
Non-Hazardous waste				
1	Fly Ash	--	2600	Collection, storage & sell to brick manufactures or co-processing in cement industries or in house utilization in waste treatment/Civil construction.

- 6.3 The authorization is granted to operate a facility as above.
 6.4 The authorization shall be in force for a period **up to 02/07/2027**.
 6.5 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.

7. TERMS AND CONDITIONS OF AUTHORISATION:

- 7.1 The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
 7.2 The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the Gujarat Pollution Control Board.
 7.3 The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
 7.4 Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
 7.5 The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
 7.6 The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
 7.7 It is the duty of the authorised person to take prior permission of the Gujarat Pollution Control Board to close down the facility.





GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

- 7.8 The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 7.9 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 7.10 The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- 7.11 The importer or exporter shall bear the cost of import or export and mitigation of damages if, any.
- 7.12 An application for the renewal of an authorization shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016.
- 7.13 Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 7.14 Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
- 7.15 Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No. 657 of 1995 dated 14th October 2003.
- 7.16 Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.
- 7.17 Unit shall have to manage used or spent oil; empty or discarded barrels / containers / liners contaminated with hazardous chemicals / wastes, process waste as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986 and shall apply Authorization for all applicable waste.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

(Arun G. Patel)
ENVIRONMENT ENGINEER

Clean Gujarat Green Gujarat

Page 13 of 13
Website : <https://gpcb.gujarat.gov.in>



Allocation made for environmental management plans

Sr.no	Particulars	Capital cost	Basis of cost estimation	Additional Recurring Cost Per	Basis of cost estimation
		(Rs in Lac)		(Rs in Lac)	
1.	Air Pollution Control	145	Installation of ESP and water scrubber for new 25 TPH & 15 TPH coal based boiler, construction of new stacks, new scrubbing systems, odour control systems	15	Power Consumption APCM, Manpower cost Maintenance of APCM system.
2.	Water Pollution control	4850	Construction and installation of new ETP and STP Unit, RO and MEE plant and Their accessories, construction of strome water network	1675	Treatment Cost Including cost of treatment chemicals, pumping cost, manpower cost, power consumption maintenance, replacement
3.	Noise Pollution Control	0.10	Acoustic Enclosures for Utility Housing ,D.G Set	0.05	Noise Monitoring
4.	Environment Monitoring And Management	10	Installation of Online Monitoring system, In-house monitoring and analytical System.	10	EMS cell Activities, environmental Audit, compliance Audit, statutory compliances, third party monitoring expenses
5.	Occupational Health and safety	2.0	Augmentation /upgradation of OHC and its infrastructure facility.	5.0	Manning of OHC, Hiring of Panel Doctor.
					OHC expense
6.	Green Belt enhancement & maintenance	18	Plantation ,irrigation, fertilizers And pesticide	22	Hiring agency for green belt Maintenance, irrigation and fertilizers Pesticide cost.



GHARDA CHEMICALS LIMITED, PANOLI

7.	Solid/Hazardous waste management	50	Augmentation of storage area for different type waste in compliances with HW rule together with necessary infrastructure and equipment for collection and transport.	1500	Manpower Cost Transportation cost
TOTAL		5075.10		3227.05	



Handwritten signature in blue ink, appearing to read 'A. V. Reddy'.

Photo -1 (Solvent storage area)



Photo-3 (Breather Valve)



Photo -2 (Double Earthing pump)



Photo -4 (Close system SFD)

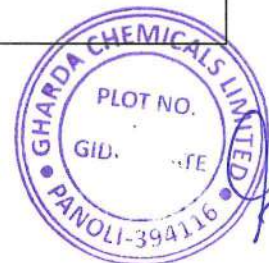


Photo-7 (First Aid box Photo)

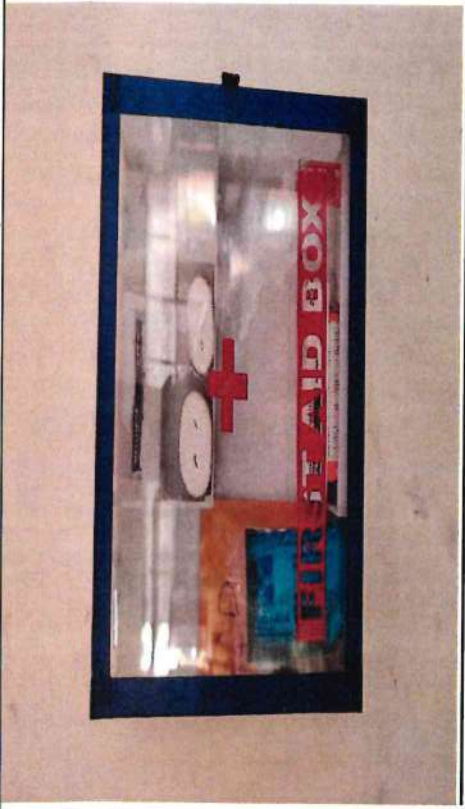


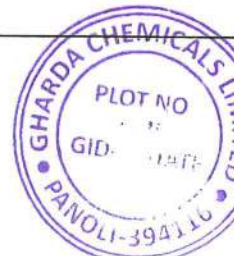
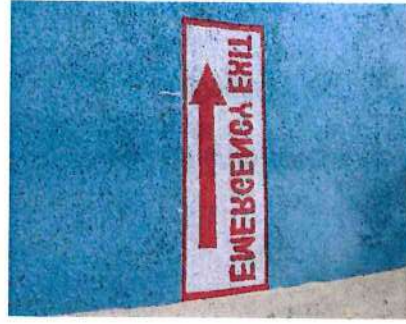
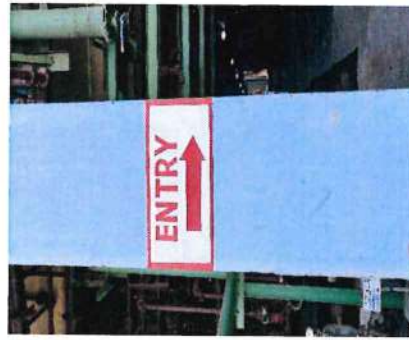
Photo -5 (Reflux Condenser)



Photo -6 (Mechanical seal pump)



Photo -8 (Exit and Entry board)



Handwritten signature

Photo-11 (Pucca Flooring Photo)



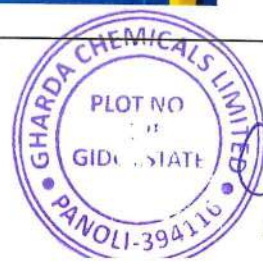
Photo -12 (Green Belt)



Photo -9 (Dyke Wall)



Photo -10 (PPE Cabinet)



Arvind