Inspired by Science

PIIND/JMB/EHS/685
Date:01/06/2025

To,
Additional Principal Chief Conservator of Forests(C)
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
A-Wing – 407 & 409, Aranya Bhawan,
Near CH-3 Circle, Sector-10A,
Gandhinagar - 382010

Sub: Six Monthly compliance status report of Environment Clearance conditions. October-24 to March-25.

Ref: Environment Clearance issue by MOEF&CC vide letter no: F. No. IA- J-11011/6/2017-IA-II (I) dated 26th July 2018 and amendment in EC on dated 1st July 2024.

Respected Sir,

In context to the above subject, we are submitting herewith the Six-monthly compliance status of Environment Clearance issued by MOEFCC for Pesticides, Pesticide intermediates, and Fine chemicals with attachment for the period from October-2024 to March-2025.

Thanking you.

Yours Faithfully,
For, PI Industries Ltd.

for

Site Head – Environment

Encl.: EC compliance status report with Annexures A to J

Responsible Care®
OUR COMMITMENT TO SUSTAINABILITY

PI Industries Ltd.
Plot No. SPM - 29/2, Sterling SEZ, AT & PO, Sarod, Taluka-Jambusar, Dist. Bharuch, Gujarat - 392180, India. Tel.: +91 2644 305500/01, 9512030611/12/13
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Compliance of Environmental Clearance for SPM 29/2

F. No-J-11011/6/2017-IA II (I) dt. 26/07/2018

<table>
<tr><th>Sr. No.</th><th>Conditions in Environmental Clearance
F. No-J-11011/6/2017-IA II (I) dt. 26/07/2018</th><th>Compliance Status 31.03.2025</th></tr>
<tr><td>2</td><td>The Ministry of Environment, Forests and climate change has examined the proposal for environment clearance to the project for setting up pesticides, pesticide intermediates and fine chemicals manufacturing unit of total capacity 43240 TPA by PI Industries Ltd (Unit-II) in a total area of 87300 sq. mtr. at plot no SPM-29/2, Sterling SEZ and infrastructure Limited, Post Sarod, Taluka Jambusar, District Bharuch, Gujarat.</td><td>• Noted.</td></tr>
<tr><td>3</td><td>Industry proposed to develop green belt in 33 % of the total area i.e 28810 sq. mtr.

The estimated project cost is Rs 393 Crores. Total capital cost earmarked towards environmental pollution control measures will be Rs 26 crores and the recurring cost (operation and maintenance) will be about Rs 6.85 crores per annum. Total employment including direct and indirect will be 300 persons. Industry proposes to allocate Rs 9.825 crores towards Corporate Social Responsibility.</td><td>• Complied,
• Currently project is under development and we are developing green belt in phase wise manner.
• Unit has already occupied the land 25 (Approx.) Acre in nearby village Sarod which is almost 3 KM away from both manufacturing sites for green belt development, Status of the green belt development at Gaucher land will be submitted to MoEF & CC, RO Gandhinagar on regular basis.
• Photographs of developed greenbelt are attached as Annexure-A.</td></tr>
<tr><td>4</td><td>There are no National Parks, Wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, Wildlife sanctuaries etc. within 10 km from the project site. Coastal area of Gulf of Cambay is at 2.5 km from project site.</td><td>• Noted.</td></tr>
<tr><td>5</td><td>The details of Products and by products are as under: -
<table>
<tr><th>S. No</th><th>Product Names</th><th>Quantity (TPA)</th></tr>
<tr><td>A</td><td colspan="2">Pesticides and Intermediates</td></tr>
<tr><td colspan="2">Insecticides and Intermediates</td><td rowspan="28">4800</td></tr>
<tr><td>1</td><td>Amino Triazines</td></tr>
<tr><td>a</td><td>THM</td></tr>
<tr><td>2</td><td>Diamides</td></tr>
<tr><td>a</td><td>Flub</td></tr>
<tr><td>b</td><td>SOD</td></tr>
<tr><td>c</td><td>MMTPA/SAA</td></tr>
<tr><td>3</td><td>Hydazinopyridine</td></tr>
<tr><td>a</td><td>CHDP</td></tr>
<tr><td>4</td><td>Nicotinamides</td></tr>
<tr><td>a</td><td>TFNA</td></tr>
<tr><td>5</td><td>Nitroguanidines</td></tr>
<tr><td>a</td><td>BNHT</td></tr>
<tr><td>b</td><td>AETF</td></tr>
<tr><td>6</td><td>Organophosphorus Insecticide</td></tr>
<tr><td>a</td><td>MTN</td></tr>
<tr><td>7</td><td>Phenyl organo thiophosphate</td></tr>
<tr><td>a</td><td>PTF</td></tr>
<tr><td>8</td><td>Phthalimides</td></tr>
<tr><td>a</td><td>PMT (Phosmet)</td></tr>
<tr><td>9</td><td>Pyrazole-diamides</td></tr>
<tr><td>a</td><td>Q4039</td></tr>
<tr><td>b</td><td>YB449</td></tr>
<tr><td>c</td><td>DPX (IN-G2S78)</td></tr>
<tr><td>d</td><td>BPCA</td></tr>
<tr><td>10</td><td>Quinazoline</td></tr>
<tr><td>a</td><td>FNZQ</td></tr>
<tr><td>11</td><td>Quinolinyl carbonate</td></tr>
</table>
</td><td>• Unit has got valid CCA up to Phase-II (up to 50% of EC quantity) from GPCB, where in Production is 21620 MTPA and by product is 4000 MTPA.
• Total production data for last six months are as below:
<table>
<tr><th>Product Group</th><th>Consent Value (MTPA)</th><th>Oct-24</th><th>Nov-24</th><th>Dec-24</th><th>Jan-25</th><th>Feb-25</th><th>Mar-25</th><th>Apr-24 to Sep-24</th><th>Total (MTPA)</th></tr>
<tr><td>Insecticides and Intermediates</td><td>4800</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>0.00</td><td>5.44</td><td>5.44</td></tr>
<tr><td>Herbicides and Intermediates</td><td>5650</td><td>118.99</td><td>107.20</td><td>140.74</td><td>156.49</td><td>143.21</td><td>159.11</td><td>404.60</td><td>1230.33</td></tr>
<tr><td>Fungicides and intermediates</td><td>3550</td><td>7.60</td><td>5.60</td><td>6.60</td><td>1.80</td><td>0.00</td><td>0.00</td><td>28.40</td><td>50.00</td></tr>
<tr><td>Pyrazoles</td><td>5500</td><td>241.60</td><td>260.80</td><td>264.00</td><td>217.60</td><td>121.60</td><td>276.80</td><td>1552.00</td><td>2934.40</td></tr>
<tr><td colspan="2">Total Production in MT</td><td>368.19</td><td>373.60</td><td>411.33</td><td>375.89</td><td>264.81</td><td>435.91</td><td>1990.44</td><td>4220.17</td></tr>
</table>
-</td></tr>
</table>

Sr. No.	Conditions in Environmental Clearance F. No-J-11011/6/2017-IA II (I) dt. 26/07/2018			Compliance Status 31.03.2025
	a	FMTQ		
	12	Thiazolidines		
	a	CCITM		
	b	CCMP		
		Herbicides and Intermediates		
	1	Alkylazines		
	a	DMI		
	b	DMAI		
	2	Amide-triazolones		
	a	IAT		
	3	Aryloxyphenoxy propionates		
	a	FPES		
	4	Benzoyl cyclohexanediones		
	a	AE 473		
	b	Tembutrion		
	c	747 Ether	**5650**	
	d	2C6SMT		
	5	Furanones		
	a	FLURT		
	6	Intermediate of Herbicide		
	a	MTAA		
	7	Active nitrile Herbicide		
	a	PYCL		
	8	Oxazinones		
	a	MY-100		
	9	Oxazoles		
	a	Lake Palace		
	10	Oxazolidinediones		
	a	KPP		
	11	Phosphinates		
	a	MPBS		
	12	Pyrimidinediones		
	a	PCM		
	b	EATB		
	13	Pyrimidinyloxybenzoic acid		
	a	Bispyribac sodium		
	14	Pyrimidinylsulfonylurea		
	a	FRSF		
	b	ESPS		
	15	Sulfonylurea		
	a	AMSB (Mesylamide)		
	b	OTMA		
	16	Triazines		
	a	CNZ		
	17	Triazopyrimidine sulfonamides		
	a	DTPBS		
	Fungicides and intermediates			
	1	Active amide Fungicides		
	a	SSF-126/OXIME		
	b	TRFRN		
	c	FNXL		
	d	MIPD		
	e	ORST		
	2	Benzamides		
	a	ZXMD	**3550**	
	3	Carboxamides		
	a	AMB		
	4	Organophosphates		
	a	KTZ (Kitazin)		
	5	Pyridine Fungicides		
	a	CTPE		
	6	Pyrimidines		
	a	AZST		

Sr. No.	Conditions in Environmental Clearance F. No-J-11011/6/2017-IA II (I) dt. 26/07/2018			Compliance Status 31.03.2025
	7	Quinoxalines		
	a	CMTH		
	8	Triazoles		
	a	IPCZ		
	b	FIL		
	C	FOX		
	d	IBCZ		
	Pyrazoles			
	1	n-alkyl 3,4,5 substituted pyrazoles		
	a	PFD		
	b	TBFN		
	c	TLF		
	d	IBA		
	e	OCTOPUSSY		
	f	MY-71	**5500**	
	g	MTP		
	h	DCPA		
	i	CFPA		
	j	ACH		
	k	BDB		
	l	PRZ		
	B	**Synthetic Organic Chemicals**		
	Fine Chemicals			
	1	Substituted Anthraanilic acid		
	a	ACBM		
	2	Substituted 1,2,4-Triazole		
	a	AMT		
	3	Substituted tetrahydo pyran		
	a	ATHP		
	4	Dimethyl halo substituted benzene		
	a	CDMA		
	b	CDMB		
	5	Substituted cyclopropyl ethanone		
	a	CPFK		
	6	Substituted alkyl diamine		
	a	DAEEA		
	7	Substituted dihalo pyridine	**7500**	
	a	DCTFP		
	8	Subsituted dimethyl dioxane methanol		
	a	DHD		
	9	Substituted Butanone		
	a	DMB		
	10	Substituted Butanoic acid		
	a	EMBA		
	11	Substituted Hydrazine		
	a	MMH		
	b	UDMH		
	c	SDMH		
	12	Substituted Phenothiazine		
	a	10-H Phenotiazine		
	13	Substituted diphenyl ether		
	a	Metaphenoxy benzaldehyde		
	Fluorospeciality products			
	1	Fluoro substituted alkyl amine	**2000**	
	a	DFEA		
	Specialty Chemicals			
	1	Substituted cyclohexane carboxylate		
	a	ETMD		
	2	Hepta Fluoro Alkane	**1000**	
	a	HFMOP		
	3	Substituted 1,3-dioxalane		
	a	MDO		
	4	Substituted Isobutyrate		

Sr. No.	Conditions in Environmental Clearance F. No-J-11011/6/2017-IA II (I) dt. 26/07/2018	Compliance Status 31.03.2025

a	CMIBA	
5	Substituted phenyl ether	
a	CMTB	
Performance Chemicals		
1	Substituted phenyl morpholoine Ketone	**13000**
a	PCBM	
2	Catecol mixed salt	
a	Negolyte	
New R&D product for Pilot scale		**240**
	Total	**43240**

By - Products

Sr. No	Product	Quantity (TPA)
1	27 % NaSH	1000
2	20 % HCl	12000
3	Ammonia Solution 15%	1000
4	H2SO4	300
5	Distill Solvent	6900
6	Sodium Propionate	2400
7	NaBr/MgBr	60000
8	Acetic Acid	1200
9	Orthocresol	300
10	Propionic Acid	900
11	Ammonium Chloride	500
12	HBr	1000
13	Sodium Hypochloride solution	900
14	AlCl3	1800
	Total	**90200**

Month	By Product	Consent Qty (MTPA)	Quantity (MT)
Apr-24 to Sep-24	Distill Solvent	6900	242.58
Oct-24	Distill Solvent		28.33
Nov-24	Distill Solvent		45.50
Dec-24	Distill Solvent		33.29
Jan-25	Distill Solvent		31.93
Feb-25	Distill Solvent		29.36
Mar-25	Distill Solvent		114.26
Total	**Distill Solvent**	**6900**	**525.25**

Note: Remaining byproduct quantity consider into Hazardous waste as per GPCB consent.

6	Total water requirement is estimated to be 2625 cum/day, of which fresh water demand of 2491 cum/day is to be met from SEZ water supply. Effluent of 734 KLD shall be treated through ETP of adjacent sister concern unit of PI Industries (Unit-I), of which 134 KLD will be recycled and reused for industrial operations and 500 KLD of treated waste water will be discharged to SEZ Sump for final disposal into Gulf of Cambay through approved channel of M/s VECL.	• Unit has got valid CCA up to Phase-II (up to 50% of EC quantity) from GPCB where in water requirement is 1245 KLD and effluent generation is 426 KLD. • Water and waste water data last Six month are as below: -

Sr. No.	Month	Water consumption (KLD)	Effluent generation (KLD)
1	Oct-24	579	156
2	Nov-24	680	177
3	Dec-24	660	178
4	Jan-25	536	130
5	Feb-25	585	111
6	Mar-25	790	136
	Avg.	638	148

Power requirement of 15000 kVA will be met from DGVCL. Six D.G Set of 4000 kVA capacity each will be installed and used as standby during power failure. Stack (height 30 m) will be provided as per CPCB norms to the proposed DG sets.	• Unit has obtained power supply from DGVCL through Sterling SEZ. • Unit has installed three D.G Sets of 2000 kVA capacity each and adequate stack height of 78-meter common stack with Boiler and used as standby during power failure.
The unit will have Boilers of 6 TPH (1 Nos) & 12 TPH (2 nos.) and Thermic Fluid Heater (60 Lakhs Kcal/Hr) with Furnace Oil/Natural Gas (204 MT/Day/195440 Nm3/Day) will be used as fuel. Boiler & Thermic Fluid heater is connected with stacks of adequate height of 30 m & 20 m respectively. **As per EC amendment F. No-J-11011/6/2017-IA II (I) dt. 01/06/2024 on dated 01.06.2024** unit will have a boiler 17 TPH (2 No's) and Thermic fluid Heater (60 Lakhs Kcal/Hr.) with LDO/Natural Gas (204	• Unit has installed Two Boiler of 17 TPH capacity (Out of total 30 TPH granted) with adequate stack height of 78-meter common stack with DG sets. • LDO/NG is being used as fuel and monthly consumption data is updated on the GPCB XGN website.

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<tr><td colspan="2">MT/Day & 195440 Nm3/Day) will be used as fuel. Boiler & Thermic Fluid heater is connected with stacks of adequate height of 30 m & 20 m respectively.</td><td></td></tr>
<tr><td colspan="2">Alkali scrubber will be used as APCM to control the process emission from the stack attached to reactors of multipurpose plant.</td><td>• Complied
• Unit has installed a water scrubber followed by alkali scrubber as APCM to control the process emission with an adequate height of 30-meter plant-wise.
• Unit is regularly monitored and ensures the process emissions through' third party and report are submitted to GPCB every month. Copies of the analysis report is attached herewith as Annexure-B.</td></tr>
<tr><td colspan="2">The solid/hazardous waste generation and its management are as under.
<table>
<tr><th>Sr. No.</th><th>Type of waste</th><th>Category as per HWM Rules, 2016</th><th>Quantity</th><th>Method of Disposal</th></tr>
<tr><td>1</td><td>MEE salt</td><td>35.3</td><td>235 TPM</td><td>Collection, Storage, Transportation & Disposal in approved common TSDF/co-processing</td></tr>
<tr><td>2</td><td>Used Oil</td><td>5.1</td><td>25 KLPM</td><td>Collection, storage and reused or sold to registered refiners.</td></tr>
<tr><td>3</td><td>Residues after Distillation, fractionation, condensation recovery etc./ Solvent Distillation Residue</td><td>20.3</td><td>300 TPM</td><td>Collection, storage & Incineration at PI Unit-I or in approved common incineration facility or co-processing/incineration</td></tr>
<tr><td>4</td><td>Spent Carbon</td><td>36.2</td><td>50 TPM</td><td>Collection, storage & Incineration at PI Unit-I or in approved common incineration facility or send to Authorized recyclers/ re-processors for recovery/ co-processing</td></tr>
<tr><td>5</td><td>Process Waste (Process Waste Sludge/residue)</td><td>29.1</td><td>1800 TPM</td><td>Collection, storage & Incineration at PI Unit-I or in approved common incineration facility or co-processing/co-incineration facility</td></tr>
<tr><td>6</td><td>Discarded containers/drums/liners</td><td>33.1</td><td>300 TPM & 50000 nos./month</td><td>Recycled or sold to authorized scrap dealer or end users or disposal in approved common TSDF/incineration at PI Unit-I as well as approved common facility or sent for common decontamination facility.</td></tr>
<tr><td>7</td><td>Date Expired</td><td>29.3</td><td>100</td><td>Collection, storage &</td></tr>
</table></td><td>• Complied
• Unit has got valid CCA up to Phase-II (up to 50% of EC quantity) from GPCB.
• Solid/Hazardous waste generation data for last Six month are as below: -
<table>
<tr><th>Month</th><th>NaBr (I-29.1)</th><th>Residue after distillation (Cat. I-20.3)</th><th>Process solid waste (I-29.1)</th><th>CRUDE NBA (I-29.4)</th><th>Process Waste (29.1)</th><th>Spent Carbon (36.2)</th></tr>
<tr><td>Apr-24 to Sep-24</td><td>20627.4</td><td>297.88</td><td>180.76</td><td>3336.75</td><td>400.05</td><td>23.295</td></tr>
<tr><td>Oct-24</td><td>3375.84</td><td>37.31</td><td>48.58</td><td>625.84</td><td>708.75</td><td>0.00</td></tr>
<tr><td>Nov-24</td><td>3564.84</td><td>50.05</td><td>63.44</td><td>505.23</td><td>534.82</td><td>0.00</td></tr>
<tr><td>Dec-24</td><td>3608.23</td><td>66.17</td><td>43.70</td><td>558.35</td><td>864.96</td><td>0.00</td></tr>
<tr><td>Jan-25</td><td>1780.43</td><td>58.85</td><td>40.96</td><td>378.60</td><td>1908.30</td><td>0.00</td></tr>
<tr><td>Feb-25</td><td>2621.69</td><td>38.97</td><td>36.24</td><td>474.01</td><td>886.41</td><td>0.00</td></tr>
<tr><td>Mar-25</td><td>3558.36</td><td>59.65</td><td>54.26</td><td>337.17</td><td>1250.67</td><td>0.00</td></tr>
<tr><td>Total</td><td>39136.77</td><td>608.88</td><td>467.94</td><td>6215.94</td><td>6553.96</td><td>23.30</td></tr>
<tr><td>Consent Qty in MTPA</td><td>45000</td><td>1800</td><td>10800</td><td>9000</td><td>10800</td><td>300</td></tr>
</table>
• Disposal of hazardous waste as per HWM Rules, 2016 and send through online Manifest on GPCB-XGN website and month wise data updated on GPCB-XGN.</td></tr>
</table>

Sr. No.	Conditions in Environmental Clearance F. No-J-11011/6/2017-IA II (I) dt. 26/07/2018				Compliance Status 31.03.2025
	off specification products		TPM	Incineration at PI Unit-I or in approved common incineration facility or co-processing	
8	Spent/Crude Solvent	29.4	1500 TPM	Collection, storage and incineration at PI Unit-I or at authorized CHWIF facility or Co-processing or reuse by in-house solvent distillation. Sold to GPCB Authorized recyclers/ distillators/ reprocessors	
9	Spent Catalyst	29.5	50 TPM	Collection, storage & Incineration at PI Unit-I or in approved common incineration facility or co-processing, send to Authorized recyclers/reprocessors for recovery or sent for regeneration to supplier.	
10	Spent Acid	29.6	1500 TPM	Collection, storage & sold to authorized recyclers/ re-processors, re-user	
11	Spent Resin	34.2	2 TPM	Collection, storage, transportation and disposal in approved common TSDF.	
7	The Project /activity is covered under category A of item 5(b) 'Pesticide industry and pesticide specific intermediates' and 5(f) 'Synthetic Organic Chemical Industries' of Schedule to the Environment Impact Assessment (EIA) Notification, 2006 and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.				• **Noted by the unit.**
8	The Terms of Reference (ToR) for the project was granted on 29th April, 2017 and amended on 22nd June, 2017 for exemption from public hearing and on 5th February, 2018 for addition of one product.				• **Noted by the unit.**
9	The proposal was placed before the EAC (Industry-2) in its meeting held on 27-28 March, 2018 in the Ministry. The project proponent and their consultant M/s San Envirotech Pvt Ltd presented the EIA/EMP report as per the ToR. The committee found the EIA/EMP report satisfactory, in consonance with ToR, and recommended the proposal for environmental clearance with certain conditions.				• **Noted by the unit.**

Sr. No.	Conditions in Environmental Clearance F. No-J-11011/6/2017-IA II (I) dt. 26/07/2018	Compliance Status 31.03.2025
10	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forests and Climate change hereby accords environmental clearance to the project for setting up pesticides, pesticides intermediates and fine chemicals manufacturing unit of total capacity 43240 TPA by M/s PI Industries Ltd (Unit-II) at plot No. SPM -29, Sterling SEZ & Infrastructure Ltd, Post Sarod, Taluka Jambusar, District Bharuch (Gujarat), under the provisions of EIA Notification, 2006 and the amendments made therein, subject to the compliance of terms and conditions, as under:-	• **Noted and shall be complied.**
(i)	Total production of pesticides shall include manufacturing at least 25 % of bio-pesticides. **As per EC Amendment (F. No-J-11011/6/2017-IA II (I) dt. 17/06/2019) dated on 17.06.2019,** Total Production Capacity shall be 43240 TPA, Including 10 % of biopesticides.	• **Noted and shall be complied.**
(ii)	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and water (Prevention and Control of Pollution) act, 1974.	• Unit has got EC to Consent to Establish from GPCB. • Now, unit under development is planned in phase wise manner and unit has got valid CCA phase-wise from GPCB as per below: 1) CCA: AWH-109448, 7/11/2020 (Phase-I: up to 25% of EC quantity) 2) CCA Amendment: AWH-119380, 30/07/2022 (Phase-II: up to 50% of EC quantity) 3) CCA Amendment: AWH-123888, 09/02/2023 • Copies of CCA amendments are attached as **Annexure-C.**
(iii)	Treated effluent of 500 cum/day, shall conform to the discharge standards prescribed under the Environment (Protection) Rules, 1986, to take it to common SEZ Sump followed by discharge into Gulf of Cambay through approved channel of M/s VECL. Prior permission in this regard for additional discharge of 0.5 MLD shall be obtained from M/s Sterling Biotech and/or M/s VECL.	• Effluent of this site is being treated along with effluent of Unit-I (SPM-28,29/1) as per permission granted by GPCB through CCA of Unit-I (SPM-28,29/1). • Combined treated effluent from ETP is being discharged into the effluent collection sump of sterling SEZ along with the treated effluent of Unit-I from where it was conveyed to the lagoons of VECL through a dedicated pipeline. The treated wastewater from the lagoons of VECL is finally disposed into the Gulf of Cambay as per standards prescribed norms. • Analysis report of treated effluent is attached as **Annexure-D.** • Unit has obtained membership certificate for 0.5 MLD from VECL on dated 02/09/2024 and copy of certificate is attached as **Annexure-E.**
(iv)	Necessary authorization required under the Hazardous and Other wastes (management and Trans-Boundary Movement) Rules, 2016, Solid waste management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	• **Complied.** • Unit is having valid CCA (Phase-II) which covers authorization under Hazardous and Other wastes (management and Trans-Boundary Movement) Rules, 2016, Solid waste management Rules, 2016.
(v)	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.	• **Complied** • Unit is regularly monitored and ensures the emissions as per standard through third party and report are submitted to GPCB every month. Copies of the analysis report is attached herewith as **Annexure-B.**
(vi)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms	• **Complied.** • To control fugitive emissions, all process is carried out

<table>
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<tr><td></td><td>and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.</td><td>in close loop, Process emissions are being control by providing two stage scrubber system followed by carbon packed tower with adequate stack height of 30 meter.
• Solvent storage tanks are provided with Nitrogen blanketing.
• HVAC system has facilitated to prevent the emission at work zone.
• Ambient air monitoring is being done through third party and copies of the analysis report are attached herewith as Annexure-F.
• Performance of emission from process stacks is being monitored through third party and copies of the analysis report are attached herewith as Annexure-B.</td></tr>
<tr><td>(vii)</td><td>Solvent management shall be carried out as follows:
(a) Reactor shall be connected to chilled brine condenser system.
(b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
(c) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95 % recovery.
(d) Solvents shall be stored in a separate space specified with all safety measures.
(e) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
(f) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.
(g) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.</td><td>• Noted and being Complied.
a. All process reactors are to be equipped with adequate utilities i.e cooling system, chiller & brine system with automation on set parameter.
b. All mechanisms for material transfer /storage /process are facilitated with proper seal (i.e single mechanical & double mechanical seal for the prevent leakages.
c. All condensers have been provided with adequate HTA and residence time.
d. The storage of solvent in a separate space has been specified with all safety measures.
e. Earthing has been provided for all the electrical equipment wherever solvent handling is applicable.
f. Entire plant is flameproof and the breather valve has been provided for solvent storage tanks.</td></tr>
<tr><td>(viii)</td><td>Total fresh water requirement shall not exceed 2491 cum/day to be met from SEZ water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.</td><td>• The unit has got valid CCA up to Phase-II (up to 50% of EC quantity) from GPCB where in water requirement is 1245 KLD and effluent generation is 426 KLD.
• Unit has got permission from Sterling SEZ authority.
• Fresh water consumption are as below,
<table>
<tr><th>Month</th><th>Consent Qty in KLD</th><th>Fresh Water Consumption in KL</th></tr>
<tr><td>Apr-24 to Sep-24</td><td rowspan="7">2491</td><td>116079</td></tr>
<tr><td>Oct-24</td><td>17939</td></tr>
<tr><td>Nov-24</td><td>20399</td></tr>
<tr><td>Dec-24</td><td>20458</td></tr>
<tr><td>Jan-25</td><td>16625</td></tr>
<tr><td>Feb-25</td><td>16388</td></tr>
<tr><td>Mar-25</td><td>24501</td></tr>
<tr><td colspan="2">Total Water Consumption</td><td>232389</td></tr>
<tr><td colspan="2">Average/Day</td><td>637</td></tr>
</table></td></tr>
<tr><td>(ix)</td><td>Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent Streams. High TDS/COD shall be passed through stripper followed by MEE and ATFD. Low TDS effluent stream shall be treated in ETP/RO to meet the prescribed standards.</td><td>Unit is industrial effluent segregating in to High COD/TDS and Low COD/TDS effluent Streams at source. Treatment of effluent is being as per conditions granted by GPCB in CCA (Phase-I). CCA conditions are mention below:
Condition No:3(a) Toxic industrial effluent of 30 KLD generated during Phase-II from the industrial process shall be segregated and sent for co-processing in cement industries or send it to any approved co-processing/co-</td></tr>
</table>

Sr. No.	Conditions in Environmental Clearance F. No-J-11011/6/2017-IA II (I) dt. 26/07/2018	Compliance Status 31.03.2025
		incineration/common incineration facility (CHWIF) or in-house incineration at adjoining Unit-I (SPM-28, 29/1). **Condition No: 3 (b)** The High COD/High TDS streams 146 KL/day of industrial effluent generated during Phase-II shall be sent to CMEE of Detox-Ankles war or shall be sent for co-processing in cement industries or sent it any approved co-processing /pre-processing facility. **Condition no: 3(C)** low COD stream of 250 KL/Day is treated in adjoining Unit-1 (SPM28.29/1). After treated effluent was discharged into the effluent collection sump of sterling SEZ along with the treated effluent of Unit-I from where it was conveyed to the lagoons of VECL through a dedicated pipeline. The treated wastewater from the lagoons of VECL is finally disposed into the Gulf of Cambay as per standards prescribed norms.
(x)	Process effluent/any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	• **Complied.** • Separate arrangement for storm water with bund wall and control gate valve provision provided and it is monitored on daily basis to detect any potential cross-contamination. • This proactive approach helps in maintaining the integrity of the stormwater drainage system and ensures that no industrial effluent enters natural water bodies. However, it is recommended that periodic assessments, including water quality testing of stormwater, be conducted to verify the effectiveness of these measures and ensure continued compliance with regulatory requirements
(xi)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and solvent transfer through pumps.	• **Complied.** • All hazardous chemical being stored in separate storage tank with adequate and its safety measures being taken accordance to chemical properties. (i.e. flame arresters, flash arrestor etc.)
(xii)	Process organic residue and spent carbon, if any shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.	• **Complied.** • Process organic residue, process waste and spent carbon has been sent to RSPL • Unit has obtained membership from RSPL on dated 25/03/2021 for Process waste, Process residue and spent carbon and copy of certificate is attached as **Annexure-E.** • Unit has obtained membership from SEPPL on dated 05/07/2021 for ETP sludge, process inorganic & evaporation salt, and a copy of the certificate is attached as **Annexure-E**
(xiii)	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989	• **Complied.** • Unit has followed and strictly comply with provisions made in Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. • All hazardous waste transport vehicles are facilitated with GPS system for the real time tracking & registered with GPCB.
(xiv)	Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by following along with the storm water. Direct exposure of workers to fly	• **Not applicable.** • No any process or operation which generate fly ash.

Sr. No.	Conditions in Environmental Clearance F. No-J-11011/6/2017-IA II (I) dt. 26/07/2018	Compliance Status 31.03.2025
	ash & dust should be avoided.	
(xv)	The company shall undertake waste minimization measures as below: - (a) Metering and control of quantities of active ingredients to minimize waste. (b) Reuse of by-products from the process as raw materials or as raw material substitutes (c) Use of automated filling to minimize spillage. (d) Use of close feed system into batch reactor. (e) Venting equipment through vapour recovery system. (f) Use of high-pressure hose for equipment cleaning to reduce wastewater generation.	• **Noted and shall be Complied.**
(xvi)	The green belt of at least 5-10 m width shall be developed in nearly 33 % of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	• **Complied** • Unit has developed the green belts surrounding the Plant periphery and along with road sides. • Photographs of developed green belt are attached as **Annexure-A.**
(xvii)	At least 1.5 % of the total project cost shall be allocated for corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional office.	• **Complied.** • PI Industries has its own NGO for up gradation of surrounding villages named as "PI Foundation" and PI foundation is sharing knowledge utilization & benefits in various fields which will help to up keep health, wealth, environment etc.
(xviii)	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	• **Complied.** • DG Acoustic enclosure is provided to the DG sets to mitigate the noise pollution. **Annexure-G**
(xix)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per norms.	• **Complied** • All Required Fire protection system installed in unit and As Per followed by fire prevention and protection act.
(xx)	Occupational health surveillance of the worker shall be done on a regular basis and records maintained as per the Factories Act.	• **Complied** • Periodically medical Health checkup practices are being maintained for the health assessment of the employees and contract workers Medical checkup summary report is as given **Annexure-J**
(xxi)	Continuous online (24X7) monitoring system for stack emissions and the effluent shall be installed for measurement of flow/discharge and the pollutants concentration, and the emission and effluent monitoring data to be transmitted to the CPCB and SPCB server as per the directions of CPCB in this regard.	• Unit has installed Online TOC monitoring system in ETP and data to be transmitted to the SPCB server as per the directions.
10.1	The Grant of environmental clearance is subject to compliance of other general conditions, as under: -	
(i)	The project authorities shall adhere to the stipulations made by the state pollution control board, central pollution control Board, State government and any other statutory authority.	• **Noted**
(ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. IN case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	• **Noted**
(iii)	The locations of ambient air quality monitoring stations shall be	• **Complied**

Sr. No.	Conditions in Environmental Clearance F. No-J-11011/6/2017-IA II (I) dt. 26/07/2018	Compliance Status 31.03.2025
	decided in consultation with the SPCB and its hall be ensured that at least one station is installed in the upwind and down wind direction as well as where maximum ground level concentrations are anticipated.	• One no. AAQMS has installed at near maximum ground level concentrations, Location of ambient air monitoring station as given in **Annexure -F**
(iv)	The National ambient Air Quality emission Standards Issued by the ministry vides G.S.R. No. 826(E) dated 16th November, 2009 shall be followed by the unit.	• Unit has followed the NAAQS; Issued by the ministry vides G.S.R.No.826 (E) dated 16th November, 2009.
(v)	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standard prescribed under Environment (protection) Act, 1986 Rules,1989 viz.75 dBA (day time) and 70 dBA (night time).	• Ambient Noise Monitoring report in and around the plant area is within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. • Reports are attached herewith as **Annexure -H**
(vi)	The Company shall harvest rainwater from the roof tops of the building and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	• **Noted**
(vii)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examination for all employees shall be under on regular basis. Training to all employees on handling of chemical shall be imparted	• **Compiled** • Training has been imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examination for all employees is being complied on regular basis. Training to all employees on handling of chemical has been imparted.
(viii)	The company shall also comply with all the environmental protection measures and safeguards proposed in the document submitted to the Ministry. All the recommendation made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	• **Complied** • Certification on ISO 14001:2015 environmental management system has been completed all aspect and mitigation action for the reduce the environmental risk being taken. **Annexure -I**
(ix)	The company shall undertake all relevant measure for improving the socio economics conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.	• **Noted**
(x)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	• **Noted**
(xi)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	• **Complied** • Separate environment lab has facilitated for the monitoring pollutant
(xii)	The company shall earmark sufficient funds toward capital cost and recurring cost/annum respectively to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the condition stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	• Noted and being complied. • The project proponent has assured that funds are used for implementation of environment management / pollution control measures and risk mitigation.
(xiii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat. Zila Praised/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestion/ representations, if any, were received while processing the proposal.	• **Complied.** • A valid copy of grant EC is available in company web-site portal. • https://www.piindustries.com/sustainability/ehs/environment-clearance/
(xiv)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental	• **Noted** • Unit is regularly submitting six monthly compliance

Sr. No.	Conditions in Environmental Clearance F. No-J-11011/6/2017-IA II (I) dt. 26/07/2018	Compliance Status 31.03.2025
	Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEFCC, the respective Zonal Office of CPCB and the State Pollution Control Board. A copy of Environmental Clearance and six-monthly compliance status reports shall be posted on the website of the company.	report in hard copies as well as by e-mail. • Last Six-monthly compliance reports submitted on 01.12.2024.
(xv)	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986 as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance condition and shall also be sent to the respective Regional offices of MOEF by e-mail.	• **Complied.** • Last environmental statement in Form-V is submitted to GPCB on dated: 30.09.2024.
(xvi)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://moef.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	• **Complied** • Copy of EC accorded is provided to Regional office of MOEF&CC and Head office of GPCB. • Advertisement about grant of EC has been published on 03/01/2019 in Indian Express (English) and Sandesh (Gujarati) newspapers. 
(xvii)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	• **Complied** • The Project commenced in November 2018. The date of financial closure of project will be communicated to the Regional office as well as Ministry.
11	The Ministry may revoke or suspend the clearance, if implementation of any of the above condition is not satisfactory.	• **Noted.**
12	The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.	• **Noted.**
13	The above conditions will be enforced, inter-alia under the provision of the water (Prevention & Control of pollution) Act,1974, Air (Prevention & Control of Water Pollution) Act,1981, the Environment (Protection) Act,1986 hazardous Waste (Management and Transboundary Movement) Rules, 2016 and the public liability Insurance act, 1991 along with their amendments and rules.	• **Noted.**

F. No-J-11011/6/2017-IA II (I) dt. 17/06/2019

Sr. No	Conditions in Environmental Clearance F. No-J-11011/6/2017-IA II (I) dt. 17/06/2019	Compliance Status 31.03.2025
(i)	Plot No. SPM-29 shall be read as Plot No. SPM-29/2	• **Complied**
(ii)	Pyrazoles o be read under, 'Pesticides and intermediates' instead of 'Synthetic Organics Chemicals in the product details.	• **Complied**
(iii)	Total Production capacity shall be 43240 TPA, including 10 % of bio-pesticides.	• **Noted**

F. No-J-11011/6/2017-IA II (I) dt. 01/06/2024

Sr. No	Conditions in Environmental Clearance F. No-J-11011/6/2017-IA II (I) dt. 01/06/2024	Compliance Status 31.03.2025
2.	**Condition No-6 Para-3 of EC Condition F. No-J-11011/6/2017-IA II (I) dt. 26.07.2018** The unit will have a boiler 17 TPH (2 No's) and Thermic fluid Heater (60 Lakhs Kcal/Hr.) with LDO/Natural Gas (204 MT/Day & 195440 Nm3/Day) will be used as fuel. Boiler & Thermic Fluid heater is connected with stacks of adequate height of 30 m & 20 m respectively.	• Unit has installed Two Boiler of 17 TPH capacity (Out of total 30 TPH granted) with adequate stack height of 78-meter common stack with DG sets. • LDO/NG is being used as fuel and monthly consumption data is updated on the GPCB XGN website. • Note: The unit is using natural gas as primary fuel for Boiler.
3 (i)	The PP shall develop Greenbelt over an area of minimum 33% by planting 4000 saplings (in north side) preferably, within the one year of grant of amendment of EC. In addition to this, as proposed by the PP, 4000 tree saplings shall be planted in sterling SEZ area which is located nearby the plant premises. The saplings selected should be of sufficient height, preferably 6-ft (about 2 m). The budget earmarked for the plantation shall be kept in separate account and should be audited annually. PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of the expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.	• **Noted.** • Unit has already occupied the land 25 (Approx.) Acre in nearby village Sarod which is almost 3 KM away from both manufacturing sites for green belt development, Status of the green belt development at Gaucher land will be submitted to MoEF & CC, RO Gandhinagar on regular basis. • Photographs of developed greenbelt are attached as **Annexure-A.**
(ii)	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF& CC in this regard.	• **Noted.** • Unit have installed the solar Panels on rooftops for using of natural energy source that Reduces greenhouse gas emission and carbon emission from the unit. • We are using the Natural gas as fuel, instead of FO/LDO for reduce the carbon emission.
(ii)	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The Project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.	• **Complied.** • For preventing accident unit has regular safety training conducted for employee & Contractual staff. • Onsite emergency plan reviewed and updated. Mock drills are conducted as per the schedule. • Attached Mock drill Schedule in **Annexure-K** for references.
4 (a)	The bromine sensor shall be provided in the Jacket space for the early detection of bromine leakage if any from the shell side.	• **Complied.** • Bromine sensor is provided in the jacket space for early detection of bromine leakage
(b)	Inspection by an external expert and carry out various metallurgical studies for identifying the probable causes for tank failure.	• **Complied** • Metallurgical studies are conducted for identifying the tank failures.
(c)	To review and revise the existing Inspection and Test Plan of Bromine Storage Tanks as per the Global standards and codes	• **Complied** • Existing inspection plan and test plan reviewed and updated. • Attached **Annexure-L** for reference.
(d)	To review the design of Installation of Bromine Storage Tank and Transfer systems as per the global standards by an external expert.	• **Complied** • Reviewed the design of Bromine storage and transfer system and updated.

(e)	Review of Emergency handling system (Sprinklers, Ammonia, Dyke, Bromine evacuation etc.) provided for the Tanks to handle bromine leakage	• **Complied** • Emergency handling system for Bromine storage are provided. • Attached **Annexure-M** for reference.
(f)	Review of HAZOP and strengthen the operating SOPs for safe unloading, storage, transferring of Liquid Bromine.	• **Complied** • HAZOP study for Bromine unloading, storage and transferring was reviewed and unloading work instruction for Bromine updated.