AARTI INDUSTRIES LIMITED

AARTI FERTILIZERS
(A DIVISION OF AARTI INDUSTRIES LIMITED)

Ref. No.: AARTI/VAPI/ENV/FERT/2024-2025/32 **Date:15.11.2024**

To,
Deputy Director General,
Forest (Central) Regional Office - Gandhinagar,
A Wing - 407 & 409, Aryan Bhawan,
Near CH-3 Circle, Sector - 10A,
Gandhinagar - 382010.

Subject: Half-yearly environment clearance conditions compliance report for the period April 2024 to September 2024.

Ref. : EC No. EC23A1902GJ5703887N and File No. IA-J-11011/16/2023-IA-II(I) dated **24th Nov 2023.**

Respected Sir,

In respect of the above subject we have received environmental clearance for The proposed expansion project involves the capacity enhancement of existing Products as well as new products at an existing plant located at Plot No: 801/15, 16, 17, 18, 19, 21, 22, Phase-III, GIDC Notified Industrial Estate, Vapi-396195, Tal: Pardi, Dist.: Valsad, Gujarat. The proposed expansion project falls under Schedule 5 (a) Category "B" Treated as Category "A" as General Condition is applicable as per EIA Notification 2006 and its amendment thereof. In the name of Aarti Fertilizers (A Division of Aarti industries). The compliance report for the period of April 2024 to September 2024 is supported with the required attachments.

Thank you.

Yours Faithfully,

For Aarti Fertilizers (A Division of Aarti Industries)

Authorized Signatory

COPY TO

1) **Email to**
Central Pollution Control Board,
Vadodara,

2) **Uploaded in Parivesh, MoEF&CC Portal**

3) **The Member Secretary**
Gujarat Pollution Control Board
Paryavaran Bhavan, Sector – 10 / A
Gandhinagar – 382010

ADMN. OFFICE : 71, Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (W), Mumbai - 400 080.
Tel. : 91-22-6797 6666 / 6781 6413 | E-mail : fertilizers@aarti-industries.com
REGD.OFFICE : Plot No. 801/ 23 G.I.D.C. Estate, Phase III, VAPI - 396 195,Dist. - Valsad, Gujarat, INDIA.
FACTORY : Plot No. 801 / 15 TO 19, 21 & 22, Phase III, VAPI - 396 195, Tel. : 9712906304.

M/s. Aarti Fertilizers (A Division of Aarti Industries),
Plot No: 801/15, 16, 17,18,19, 21, 22, Phase-III, GIDC
Notified Industrial Estate, Vapi, Taluka: Pardi, District.: Valsad, Gujarat
Compliance report of Environmental Clearance Proposal No. IA/GJ/IND3/442787/2023

Dated 18/01/2024, For Apr - 24 to Sept - 24

<table>
<tr><th>Sr. no.</th><th>Condition</th><th>Compliance status</th></tr>
<tr><td>3.0</td><td>The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for the proposed expansion of chemical fertilizer with production capacity from 2,03,091.6 TPA to 3,48,000 TPA located at Plot No : 801/15, 16, 17,18,19, 21, 22, Phase-III, GIDC Notified Industrial Estate, Vapi, Taluka: Pardi, District.: Valsad, Gujarat by M/s.Aarti Fertilizers (A Division of Aarti Industries)</td><td>Complied
Unit has obtained consents from GPCB as applicable from 2004 from time to time. The existing facility is having valid Consent to Operate (CTO) from GPCB vide consent order No. AWH-117689, issued on dated 23rd March, 2022, valid up to 31st December, 2026 in favor of M/s. Aarti Fertilizers (A Division of Aarti Industries).</td></tr>
<tr><td>4.0</td><td>Proposed expansion of the Chemical Fertilizer is listed in Sl. No.5(a) of the Schedule of Environment Impact Assessment(EIA) Notification under category ‘A’ and is appraised at Central Level by Expert Appraisal Committee (EAC).</td><td>Noted.</td></tr>
<tr><td>5.0</td><td>The ToR was granted by the Ministry, vide letter no. IA-J-11011/16/2023-IA-II(I); dated 07/03/2023. The PP applied for Environment Clearance in the Common Application Form and submitted EIA/EMP Report and other documents. The PP in the Form reported that it is an Expansion case. The proposal is placed in the 70th EAC meeting held on 5th December, 2023, wherein the PP along with accredited Consultant namely, M/s. Eco Chem Sales & Services (ECSS) – Surat (NABET Accreditation No.: NABET/EIA/2326/RA 0292 and it is valid till 15th March, 2026)] made a detailed presentation on the salient features of the project. The information submitted by the PP is as follows:</td><td>Noted.</td></tr>
<tr><td>6.0</td><td>The PP reported that the Existing land area is 28362.22 m2, there will be no additional land required for the proposed expansion project and the proposed expansion project will be accommodated within the existing plant premises only. The details of products to be manufactured are as follows:
<table>
<tr><th rowspan="2">Sr No</th><th rowspan="2">Product</th><th colspan="3">Capacity, MT/Annum</th><th rowspan="2">End use of product</th></tr>
<tr><th>Existing</th><th>Proposed</th><th>Total</th></tr>
<tr><td>1</td><td>Single super Phosphate (SSP) Granules/po</td><td>108000</td><td>126000</td><td>234000</td><td>As</td></tr>
</table></td><td>Noted and Complied,

The proposed expansion is within existing Land requirement only.

The Unit has obtained the CTE for the proposed Production quantity but production is not started as per this Proposed capacity, currently The unit is manufacturing the product as per CCA: AWH - 117689, Issued on 23.03.2022

All the production quantities are well within the consented quantity.

Production details are given below.</td></tr>
</table>

	wder And/Or				Fertilizer
	Zincated Single super Phosphate Granules/ powder And/Or	0			
	Boronated Single super Phosphate Granules/ Powder And/Or	0			
	Zincated Boronated Single super Phosphate Granules/ Powder	0			
2.	Sodium Silico Fluoride (SSF)	147.6	1652.4	1800	As raw material in glass industry
3.	Calcium phosphate (C.P)(Mono/ Di/Tri) And/Or	7,200	0	7,200	As Fertilizer
4.	Chemical Gypsum And/Or	69,420	20,580	90,000	As filler in cement industry
	Phospho Gypsum	18,324	71,676		As Fertilizer
5.	Magnesium sulfate And/ Or	0	15,000	15,000	As Fertilizer
	Zinc Sulfate	0			
Total		203,091 .6	1,44,90 8.4	3,48,000	

Name of product	Single Super Phosphate (Powder/ Granule)	Sodium Silico Fluoride	Chemical Gypsum
Consent Qty MT/ Month	**9000**	**12.3**	**5785**
April-24	3070	12.3	4260
May-24	4075	12.3	3970
June-24	8385	12.2	3195
July-24	4635	12.1	1315
Aug-24	4450	12.2	2470
Sep-24	4745	12.2	995

All production quantities are within the prescribed limit

7.0	The PP reported that there is no violation case as per the Notification No. S.O. 804(E) dated 14.03.2017 and no direction is issued under E (P) Act/Air Act/Water Act.	**Complied.** No violation case as per the Notification No. S.O. 804(E) dated 14.03.2017 and no direction is issued under E (P) Act/Air Act/Water Act. Unit has obtained consents from GPCB as applicable from 2004 from time to time. The existing facility is having valid Consent to Operate (CTO) from GPCB vide consent order No. AWH-117689, issued on dated 23rd March, 2022, valid up to 31st December, 2026 in favor of M/s. Aarti Fertilizers (A Division of Aarti Industries).
8.0	The PP reported that the Environment Clearance is not applicable to existing units of M/s. Aarti Fertilizers (A Division of Aarti Industries Ltd.) as unit was started in the year of 2004 with Consent Order No. 1578 date of issue: 06/02/2004, before EIA Notification 2006.	**Complied.** Unit has obtained consents from GPCB as applicable from 2004 from time to time. The existing facility is having valid Consent to Operate (CTO) from GPCB vide consent order No. AWH-117689, issued on dated 23rd March, 2022, valid up to 31st December, 2026 in favor of M/s. Aarti Fertilizers (A Division of Aarti Industries).
9.0	The PP reported that the unit has obtained the Certified Compliance Report (CCR) of valid CCA (CTO) from GPCB vide letter no. GPCB/CCA-VSD-213(5)/ID: 22983/758667, dated: 09.11.2023. It was reported that all conditions are complied.	**Complied.** The unit has obtained the Certified Compliance Report (CCR) of valid CCA (CTO) from GPCB vide letter no. GPCB/CCA-VSD-213(5)/ID: 22983/758667, dated: 09.11.2023. All conditions of CTO are complied. The same has been submitted along with the EIA report.
10.0	The PP reported that there are no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger / Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. River Daman Ganga is flowing at a distance of 4.04 km in SW direction, River Kolak is flowing at a distance of 3.55 km in NE direction from the project site. 9 Number of Faunal Species falls under Schedule–I species namely Indian peafowl (Pavo cristatus), Indian river tern (Sterna aurantia), Indian Cobra (Najanaja), Chameleon (Chamaeleo zeylanicus), Monitor lizard (Varanus bengalensis), Common rat snake (PtyasMucosus), Common Mongoose (Herpestesedwardsi), Jungle cat (Felis chaus) and Rusty spotted cat (Felis rubiginosa). Conservation plan for the Schedule–I species has been submitted to the Forest Department, Valsad South Division for approval.	**Noted**.
11.0	The PP reported that Ambient air quality monitoring was carried out at 08 locations during 01st March 2022 to 31st May 2022 and the baseline data indicates the ranges of concentrations as: PM10 (61.4-78.7µg/m3), PM2.5 (31.2-40.6µg/m3), SO2	**Noted**

	(7.8-15.1µg/m3) and NOX (13.0-19.9µg/m3). During the monitoring CO and HF were found below the detection limit and the same is well within the limit as per NAAQS. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 1.29182µg/m3, 0.747µg/m3, 0.425µg/m3 and 0.00032µg/m3 with respect to PM10, NOX, SOX & Cl2. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).	
12.0	Ground water quality sampling was carried out at 08 locations during 01st March 2022 to 31st May 2022 and based on comparison study of test results and summary report with drinking water norms, it is interpreted that the groundwater samples collected from all the locations cannot be used for drinking purpose as all the tested parameters do not meet the desirable limit as per IS 10500: 2012. All the groundwater samples can be used for other domestic purposes and irrigation activities.	**Noted**
13.0	Surface water quality sampling was carried out at 08 locations during 01st March 2022 to 31st May 2022 and based on test result data comparison study with CPCB standard for inland surface water classification, it is interpreted that surface water quality meets the criteria D and E, which means these water sources can be used for propagation of wildlife, fisheries, and Irrigation, industrial utilization for cooling, etc. The surface water samples have been collected from the Rivers, Ponds, and Lakes. COD & BOD results indicate that water bodies are contaminated marginally with organic matter. This contamination may be due to death and decay of fallen leaves and already available algae.There will be no discharge of industrial wastewater from the existing as well as proposed expansion project to any surface water body. Hence, there will be no considerable impact on any surface water quality due to the proposed expansion project. The project proponent shall take due care to avoid any discharge of treated or untreated effluent to any surface water body.	**Noted**, The Unit is treating the effluent and after meeting norms of CETP, it is discharged to the CETP pipeline for further treatment.
14.0	Soil quality sampling was carried out at 08 locations during 01st March 2022 to 31st May 2022 and based on soil analysis data it is concluded that surface soils are neutral in reaction, neither saline nor sodic. The soils are high in nitrogen, low in phosphorus, while very high in potassium status. The levels of total Fe, Cu, Cr, B and Zn are within the safe limits.	**Noted**.
15.0	Noise quality monitoring was carried out at 08 locations during 01st March 2022 to 31st May 2022. Out of total 8 nos. of locations for noise monitoring 4 nos. of locations were monitored in the industry premises and 4 nos. of locations were monitored in surrounding villages within 3-4 km radius from the project site.	**Noted**.

<table>
<tr><td></td><td>Noise level in all the locations are within the standard norms prescribed by MoEFCC.</td><td></td></tr>
<tr><td>16.0</td><td>The PP reported that the total water requirement after expansion will be 575.0 KLD (Existing- 244 KLD, Proposed -279 KLD), out of which fresh water requirement of 303.0 KLD will be met from GIDC water supply department, Vapi and 272 KLD will be recycled water. After proposed expansion, total Industrial effluent generation will be 523 KLD out of which 470 KLD of effluent from process and it will be collected separately and treated in P/T ETP and after treatment it will be sent to MVR/Evaporation system for further treatment. Remaining 53 KLD effluent from Washing, Cooling Tower Blowdown and Scrubber Bleed Liquor will be collected and treated in the MVR/Evaporation system. 517 KLD condensate (from MVR/Evaporator System) will be segregated into streams, the 244 KLD effluent after achieving the norms of CETP will be discharge into the underground effluent drainage line to CETP Vapi for further treatment and disposal and remaining 273 KLD condensate will be treated in RO. 232 KLD permeate from the RO will be reused in the cooling tower make up/process and 41 KLD reject from the RO will be sent to the MVR/Evaporation system plant. Domestic wastewater (40 KLD) will be treated in STP and STP treated water will be reused for gardening purposes and in cooling tower.</td><td>Complied,

The water consumption is well within limit,
Details of water consumption are as below.

<table><tr><th>Months</th><th>KL/Month</th><th>In KLD</th></tr><tr><td>April-24</td><td>2175</td><td>73</td></tr><tr><td>May-24</td><td>2129</td><td>71</td></tr><tr><td>June-24</td><td>2287</td><td>76</td></tr><tr><td>July-24</td><td>1280</td><td>43</td></tr><tr><td>Aug-24</td><td>1357</td><td>45</td></tr><tr><td>Sep-24</td><td>1138</td><td>37.9</td></tr><tr><td>EC Limit</td><td>17250</td><td>575</td></tr></table>
Water consumption is within the prescribed limit</td></tr>
<tr><td>17.0</td><td>Power requirement after proposed expansion will be 4500 kVA (Existing: 1820 kVA + Proposed: 2680 kVA) and it will be met from Dakshin Gujarat Vij Co. Ltd. (DGVCL). Additional 2000 KVA capacity of D G set (as per CPCB norms) will be installed as a standby which will be used in case of power failure</td><td>Complied

Total power consumption in power units of the last 6 months is as below.

<table><tr><th>Month</th><th>Power Unit (kWh)</th></tr><tr><td>April 24</td><td>323769</td></tr><tr><td>May 24</td><td>435798</td></tr><tr><td>June 24</td><td>487165</td></tr><tr><td>July 24</td><td>435024</td></tr><tr><td>Aug 24</td><td>457509</td></tr><tr><td>Sept 24</td><td>425515</td></tr></table></td></tr>
<tr><td>18.0</td><td>The Existing unit has Coal fired Granulation Plant and its associated furnaces (GSSP-1 & 2). Cyclone separator followed by Wet scrubber along with a 30 m stack height has been provided to the Granulation Plant and its associated furnaces (GSSP-1 & 2). Unit is having two numbers of natural gas fired, Ball Mills & its associated Furnace 1 & 2 and Bag filter along with 30 m stack height has been provided.In the proposed scenario, the existing</td><td>Complied.

Regular monitoring is being done on a monthly basis, all the parameters are well within limit.
Please refer below to the added table of analysis parameter results.</td></tr>
</table>

coal fired furnace of Hot Air Generator (HAG) for Granulation Plant I & II will be replaced with dual fuel fired (Coal & Biofuel) furnace and the operation hours of the HAG will be increased after the proposed expansion.

Name of fuel	existing	proposed	total
Natural Gas for Ball mill Furnaces	20 SCM/hr	20 SCM/hr	40 SCM/hr
HSD for D.G. Set	180 kg/hr	600 kg/hr	780 kg/hr
Coal for Hot Air Generator of Granulation plant I &II And / OR	0.44 MT/hr	0.86 MT/hr	1.30 MT/hr
Biofuel for Hot Air Generator of Granulation plant I &II	0 MT/hr	1.95 MT/hr	1.95 MT/hr

Stack		Granulation Plant & its associated furnace	Ball Mills & its associated furnace	DG Set
Parameters		PM- 150 mg/Nm3 Sox- 100 ppm, Nox- 50 ppm		
April-24	PM	77.1	107	93.7
	Sox	21.6	19	24.1
	Nox	12.4	10.8	32.6
May-24	PM	73.8	118	85.2
	Sox	26.2	21.3	26.3
	Nox	14.3	14	36.6
June-24	PM	82.5	110	90.5
	Sox	30.4	26.2	32.4
	Nox	17	15.4	24.8
July-24	PM	78.6	103	88.6
	Sox	23.9	30.1	33.1
	Nox	15.2	18.8	21.6
Aug-24	PM	75.1	107	82.1
	Sox	25.4	23.2	30.6
	Nox	13.7	14.1	37.1
Sep-24	PM	80.6	110	85.14
	Sox	29.0	27.7	25.9
	Nox	17.3	15.2	32.4

Consented Quantity	Coal	Natural Gas	HSD
	440 Kg/Hr	20 Nm3/Hr	180 Kg/Hr
UOM	MT/Month		
April-24	70.8	7072	0
May-24	123.6	121162	0
June-24	350.6	11293	0
July-24	217.4	10427	0

<table>
<tr><td></td><td></td><td>
<table>
<tr><td>Aug-24</td><td>216.75</td><td>15462</td><td>0</td></tr>
<tr><td>Sep-24</td><td>131.37</td><td>12784</td><td>0</td></tr>
</table>
Note : Fuel consumption is well within the consented quantity.
</td></tr>
<tr><td>19.0</td><td>Details of Process Emissions Generation and its Management: At present, there is a process gas emission of PM from Spin Flash Dryer for DCP Plant, for controlling of PM, Bag filter along with 20 m vent has been provided. For Controlling of NOx, HF, SO2 from Den/Mixture Reactor Ejector Cyclone Separator, Venturi Scrubber, Four & Fifth Stage absorption tower with water as absorbing media along with 50 m stack height provided. For Controlling of NOx from Acid Storage Tank for SSP, Three Stage Scrubber along with 12 m vent height has been provided. For proposed expansion, for controlling of Cl2 emission from chlorine storage emergency scrubber caustic along with 11 m vent height will be provided. For Controlling of NOx from Acid Storage Tank for DCP/Gypsum caustic scrubber along with 11 m vent height will be provided and for controlling PM from Lime slurry preparation section vent, Bag filter along with 11 m vent height will be provided. After the proposed expansion unit will have a total six Nos. of process stacks PM from Spin Flash Dryer for DCP Plant, for controlling of PM, Bag filter along with 20 m vent. For Controlling of NOx, HF, SO2 from Den/Mixture Reactor Ejector Cyclone Separator, Venturi Scrubber, Four & Fifth Stage absorption tower with water as absorbing media along with 50 m stack height. For Controlling of NOx from Acid Storage Tank for SSP, Three Stage Scrubber along with 12 m vent height. For controlling of Cl2 emission from chlorine storage emergency scrubber along with 11 m vent height will be provided. For Controlling of NOx from Acid Storage Tank for DCP/Gypsum caustic scrubber along with 11 m vent height will be provided and for controlling PM from Lime slurry preparation section vent, Bag filter along with 11 m vent height will be provided.</td><td>
Complied.

The unit has installed adequate systems for control of emission at all the mentioned sources, and also monitoring regularly by the NABL approved laboratory.
All the parameters are well within the limit.
<table>
<tr><th colspan="2">Stack</th><th>Den/Mixture Reactor scrubber</th><th>Acid Storage tank SSP</th></tr>
<tr><td>Consent Qty</td><td>Parameter</td><td>HF-6mg /Nm3, Sox-100ppm, Nox- 25 mg/Nm3</td><td>Nox- 25 mg/Nm3</td></tr>
<tr><td rowspan="3">April-24</td><td>HF</td><td>3.7</td><td rowspan="3">15.3</td></tr>
<tr><td>Sox</td><td>37.2</td></tr>
<tr><td>Nox</td><td>15.1</td></tr>
<tr><td rowspan="3">May-24</td><td>HF</td><td>2.1</td><td rowspan="3">18.5</td></tr>
<tr><td>Sox</td><td>34.1</td></tr>
<tr><td>Nox</td><td>12.1</td></tr>
<tr><td rowspan="3">June-24</td><td>HF</td><td>1.7</td><td rowspan="3">20.5</td></tr>
<tr><td>Sox</td><td>45.6</td></tr>
<tr><td>Nox</td><td>17.9</td></tr>
<tr><td rowspan="3">July-24</td><td>HF</td><td>1.4</td><td rowspan="3">16.9</td></tr>
<tr><td>Sox</td><td>40.6</td></tr>
<tr><td>Nox</td><td>16.8</td></tr>
<tr><td rowspan="3">Aug-24</td><td>HF</td><td>1.1</td><td rowspan="3">19.7</td></tr>
<tr><td>Sox</td><td>37.1</td></tr>
<tr><td>Nox</td><td>13.9</td></tr>
<tr><td rowspan="3">Sep -24</td><td>HF</td><td>1.1</td><td rowspan="3">16.6</td></tr>
<tr><td>Sox</td><td>35.1</td></tr>
<tr><td>Nox</td><td>16.8</td></tr>
</table>
</td></tr>
<tr><td>20.0</td><td>Details of Solid Waste/ Hazardous Waste Generation and its Management:</td><td>Complied,

Waste generated is being segregated and disposed off to authorized mode of CHWTSDF and CHWIFs applicable.</td></tr>
</table>

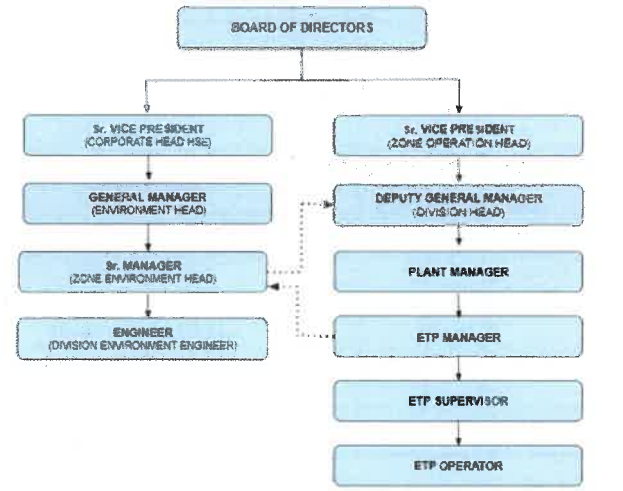
sr. no	Type of hazardous waste	category	existing	proposed	total	Method of disposal
1	Waste from Phosphoric Acid purification step Ca3(PO4)2	-	289.44	0	289.44	Collection, Storage & reused within the unit.
2	Used oil	Sch: I/5.1	0.84	19.16	20	Collection, Storage & reused within the unit and/or sold to authorized recyclers/co-processing/pre-processor.
3	Discarded containers	Sch:I/33.1	50 nos per month(10kg)	44	50	Collection, Storage, transportation, disposal By registered re processors or co processor
4	Discarded HDPE Bags	Sch:I/33.1	7506 No./ Month. (200 Gm) (18 MT)	182	200	Collection, Storage, transportation, disposal by Registered re-processors or CHWTSDFs or co – processors/ pre-processor.
5	ETP Waste	Sch: 35.3	312.48	468	780	Collection, Storage, and reused within premises.
6	Activated Carbon from ETP	18.2	1.2	13.8	15	Collection, Storage, transportation, disposal by CHWIF or co-processors/

Sr. No.	Type of Waste	Category No.	Disposal Quantity (MT)	Method of Storage	Destined to
1	Waste from Phosphoric Acid purification step Ca3(PO4)2	-	0.00	Impervious Storage & under shed	Reused
2	Used Oil	5.1	0.00	Drums, Impervious Storage & under shed	Recycling (Sold to approved recyclers)
3 & 4	Discarded Containers/ Bags	33.1	42.23	Impervious Storage & under shed	Landfill/ Recycling
4	ETP Waste	35.3	0.00	Impervious Storage & under shed	Used within premises as per AWH - 17837
5	Activated Carbon from ETP	18.2	0.00	Liner Bags, Impervious Storage & under shed	Common Incinerator
6	Spent Sulphuric Acid - Gypsum	B15	36828 (Through Pipeline)	Tanks, Dyke wall, Impervious Storage	Reception, Storage and utilization within premises.
7	Spent Sulphuric Acid - SSP	B15	17701 [15180 (Via Tanker) 2521 (Via pipeline)]		
8	MEE Salt	35.3	0.00	Impervious Storage	Landfill

						Pre-processor.
7	Spent Sulphuric Acid (15-25 %)	"B 15 Sch – II"	134676	216284	350960	Reception from M/s Aarti Industries Ltd (Alchemie Division) and other authorized generators. Storage and Utilization within premises as raw material.
8	Spent Sulphuric Acid (65-75 %)	"B 15 Sch – II"	55080	67466	122546	Reception from authorized generators, Storage and Utilization within premises as raw material.
9	MEE Salt	35.3	-	16920	16920	Collection, Storage, transportation, disposal by CHWTSDF.
10	PPE's Waste	33.2	0	100	100	Collection, Storage, Transportation and disposal at Common TSDF OR CHWIF.
11	Glass Waste	S7	0	20	20	Collection, Storage Transportation,disposal/ Sold to scrap processors Recycle.

				& under shed	
9	PPE's Waste	33.2	0.00	Impervious Storage & under shed	Landfill
10	Glass Waste	S7	0.00	Impervious Storage & under shed	Landfill

21	The Budget earmarked towards the Environment Management Plan (EMP) is 39.75 Cr. (Existing: Rs. 10.55 Cr. + Proposed: Rs. 29.20 Cr.)(capital) and the Recurring Cost (operation and maintenance) will be about 26.00 Cr. per Annum. Industry proposes to allocate Rs. 98.6 Lakhs towards Corporate Social Responsibility.	**Complied**,

22.	The unit has already developed 4,027.59 sq. m green belt (14.2 % of total area) within the plant premises. To comply with the CPA condition (i.e. 40% greenbelt of the total plot area), around 7318.0 sq. m (25.8 % of total area) green belt will be developed outside the premises within GIDC Estate (Inside Notified Industrial Estate). In addition to the above, the unit has also developed 2967.72 sq. m of green belt outside the premises adjacent to the project boundary.	**Complied,** The unit has already developed 4,027.59 sq. m green belt (14.2 % of total area) within the plant premises. In addition to the above, the unit has also developed 2967.72 sq. m of green belt outside the premises adjacent to the project boundary The unit is maintaining the Green belt area and continues the same.
23.	The PP reported that the Public Hearing is exempted as per the Ministry's O.M. J-11011/321/2016-IA. II(I) dated 27.04.2018 as the project site is located within GIDC Vapi which is declared as notified industrial area vide letter (Notification No.GHU-75-45-GID-1974-4084 (I0)CH dated 06.05.1975.	**Noted**
24.	The PP proposed to set up an Environment Management Cell (EMC) by engaging environment officials for the functioning of EMC.	**Complied.** The unit has set up an Environment management cell which engage people from every leval of unit. Same has been given below. Environment Management Cell Hierarchy 
25.	The PP submitted the Disaster Management Plan and On-site and Off-site Emergency Plans in the EIA report.	**Complied,** The unit has Submitted Disaster Management plan and on Site - off site Emergency Plan in EIA report, Ref: Page No : 224 & 226.

26.	The estimated project cost after proposed expansion is Rs. 157.30 Crores including existing investment of Rs. 108.00 Crores. Total Employment will be 108 persons as direct & 415 persons indirect after the proposed expansion	**Noted.**
27.	Deliberations by the EAC: During deliberations, EAC discussed the following issues: As suggested by the EAC, PP informed that they will install bag filters as an additional APCS with HAG (Stack-1 & 2) and install the bag filter as an additional APCS along with existing Cyclone Separator and water scrubber for existing Hot Air Generators. Updated Flue Gas emission details after proposed expansion will be as follows; Flue Gas emission details (Total After expansion) To provide proper fuel consumption details for each utility. The fuel consumption details against each utility and the details of the same are as follows; Bifurcation for domestic water consumption and sewage generation with proper justification considering the total manpower. The domestic water consumption and wastewater generation details based on per capita water requirement against the manpower details. The water requirement has been evaluated based on nos. of manpower requiring bathing prior to leaving the premises and nos. of manpower does not require bathing prior to leaving the premises. Manpower Details, Existing - 298, Proposed - 253, Total - 523 Domestic Water Consumption After proposed expansion, total 40 KLD sewage generated will be treated in sewage treatment plant and the treated sewage will be reused for gardening/toilet flushing. The sludge from STP will be used as manure within premises. As suggested by the EAC, PP submitted the following precautionary measures and safety measures for chlorine tonner during loading/unloading, storage, handling and utilization along with chlorine handling procedure: ○ Unit is utilized for chlorine in the ETP for reduction of COD and BOD. Unit is using 900 kg/day chlorine. PP will install 5 nos of chlorine leak detectors inside Chlorine tonner shed for sensing even PPM level of Cl2 leakage. These chlorine sensors are also installed near the Scrubber area. Also unit have the facility to use the chlorine through pipeline in the ETP from the sister concern (Same premises)	**Noted and Complied** APCS Like cyclone separator, Bag Filter and water scrubber are available as per requirement and all the parameters are within limit. Results are given in point no : 18. Fuel Consumption is within limit and Data given in Point No 18. Water Consumption as per Manpower is complied, Water Consumption data is given in Point No : 16. Domestic waste water generated is within limit and treated in Sewage treatment plant - STP The Unit is Utilizing Chlorine for treatment for Waste water and maintaining all the safety precautions of Chlorine.

Unit has Chlorine hood provision for containment of Chlorine gas leakage into alkali scrubber in case there is Cl2 leakage from the tonner body or valve.
Unit is provided with emergency chlorine leakage control measures like chlorine kit, chlorine tonner hood vent connected to alkali scrubber.
MSDS is made available on specific location like chlorine storage area
Unit has equipped the Chlorine shed with Chlorine leak attending kit to handle any kind of Chlorine emergency.

Detailed CPA compliance along with supporting documents are at annexure II

As suggested by the EAC to submit the budgetary provisions for EMP (Capital & Recurring Cost/Annum) as a separate document

SR. NO	NAME OF THE UNIT	EXISTING	PROPOSED	TOTAL CAPITAL COST	RECURRING COST
1.0	Water Environment				
	WATER POLLUTION MANAGEMENT	2.00	19.20	21.20	22.0
2.0	Air Environment				
	AIR POLLUTION MANAGEMENT	1.05	3.00	4.05	1.00
3.0	Solid and Hazardous waste management				
	Solid and HW management	6.00	2.00	8.00	2.00
4.0	Occupational health and safety and Fire hydrant system & noise control				
	Safety Equipment (Fire water system, PPE, Fire extinguishers, ventilation, Occupational Health, First Aid etc.	1.00	3.00	4.00	0.50
5	Green belt Development				
	Green Belt/Tree plantation, saplings, maintenance	0.50	0.50	1.00	0.30
6.	Rain Water Harvesting/Recharging				
	Rain Water Harvesting System	0.00	1.50	1.50	0.20

GRAND TOTAL	10.55	29.20	39.75	26.0

To submit the Detailed CER budgetary along with implementation schedule as a separate document. A budget of Rs. 98.6 lakhs i.e. 2.0 % cost (i.e 2 x 1% of the proposed project cost) of the investment for the proposed expansion project isallocatedfor Corporate Environment Responsibility (CER) under proposed expansion project and will be implemented in next 5 years after implementation of project at nearby villages of Eklahare,

Sr. no	CER ACTIVITIES	LOCATION	1ST YEAR	2ND YEAR	3RD YEAR	4TH YEAR	5TH YEAR	TOTAL
1.	Environment							
	Deepening of lake and strengthening for water reservoir ,Lake Beautification	Eklahare, Valvada,Ambach	2	2	2	2	2	50
	Tree Plantation with tree guard	Karvad, Ambach,Punat, Jamburi,Chanod, Salvav	8	8	8	8	8	
2.	Education							
	Playa Redevelop,SmartAanganwadi,Compound wallat school	Eklahare, Karvad,Ambach, Punat ,Jamburi	3.72	3.72	3.72	3.72	3.72	18.6
3.	Health&HygieneProject							
	Basic facilities upgrad	Karvad, Eklahare,V	5	5	10	5	5	30

	eat PHC,CCTVcamerain village, CommunityRO plant,Community Hall Repairing	alvada						
TOTAL			18.72	18.72	23.72	18.72	18.72	98.6

The committee was satisfied with the response provided by PP on the above information.

The EAC deliberated the Onsite and Offsite Emergency plans and also the various mitigation measures proposed during the implementation of the project and advised the PP to implement the provisions of the Rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, as amended from time to time.

The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for the grant of environmental clearance.

The EAC is of the view that its recommendation and grant of environmental clearance by the regulatory authority to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The PP shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

28.	The EAC, after detailed deliberations, recommended the project for the grant of environmental clearance, subject to the compliance of the specific terms and conditions and general terms and conditions in Annexure-I	**Noted & Complied**

29.	Based on the recommendations made by EAC (Industry- 3) in its meeting held on 4-5 December, 2023, Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project proposal namely "Proposed expansion of chemical fertilizer with production capacity from 2,03,091.6 TPA to 3,48,000 TPA located at Plot No: 801/15, 16, 17,18,19, 21, 22, Phase-III, GIDC Notified Industrial Estate, Vapi, Taluka: Pardi, District.: Valsad, Gujarat by M/s. Aarti Fertilizers (A Division of Aarti Industries)" under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the Specific and General terms and conditions as mentioned at Annexure-1. TheMinistry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.	**Noted & Complied**
30.	The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.	**Complied** The advertisement in local newspapers and in national newspapers published, the copy of the same also sent to the regional office Vapi.
31.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	**Noted & Complied**
32.	The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.	**Noted**
33.	Action plan for implementing EMP and environmental conditions along with a responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in a separate account and not to be diverted for any other purpose. Six monthly progress of implementation of the action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.	**Complied** The Company has earmarked sufficient funds for Installation, Operation and maintenance of Environment management System and Operation of Pollution control measures.

34.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	**Noted & Complied**
35	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	**Noted**
36.	Any appeal against this EC 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**
37.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.	**Noted & Complied**
	ANNEXURE - 1 **Specific EC conditions**	
1.	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	**Noted & Complied**
2.	NOC from the Concerned Local authority shall be obtained before the start of the construction of the plant and drawing water from GIDC water supply. State Pollution Control Board shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act til the project proponent shall obtain such permission.	**Noted**

3.	Ejector Cyclone Separator, Venturi Scrubber, Fourth & Fifth Stage absorption tower with water as absorbing media along with 50 m stack height has been provided with Den/Mixture Reactor to Control NOx, HF, SO2 emissions. Three Stage Scrubber along with 12 m vent height has been provided to the Acid Storage Tank for SSP for Controlling NOx. For proposed expansion, scrubber caustic along with 11 m ventheight will be provided to the chlorine storage emergency for controlling of Cl2 emission. Caustic scrubber along with 11 m vent height will be provided to Acid Storage Tank for DCP/Gypsum for Controlling of NOx and Bag filter along with 11 m vent height will be provided to the Lime slurry preparation section vent. After proposed expansion unit will have total six Nos. of process stacks attached with Spin Flash Dryer for DCP Plant, for controlling of PM, Bag filter along with 20 m vent will be attached.SSP plant system shall be designed such as in case of any scrubbing system failure, the plant shall trip instantly.	**Noted and Complied.** The unit has installed adequate systems for control of emission at all the mentioned sources, and also monitoring regularly by the NABL approved laboratory. All the parameters are well within the limit. Results are given in point No : 19
4.	Cyclone Separator followed by Bag Filter and water scrubber alongwith stack height of 30 m shall be provided to the coal/biofuel fired hot air generator attached to Granulation plan 1 and 2 to control the particulate emissions as per the CPCB/SPCB guidelines.	**Complied** The unit has installed adequate APCM to control the particulate emissions and all the parameter are well with in limit
5.	Bag Filter along with stack height of 30 m shall be provided to the ball mill.	**Complied** The unit has provided 30 m stack height for the ball mill.
6.	Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by SPCB.	Fugitive emission control is achieved by Closed storage, handling, and conveyance of chemicals (RM and FG) is being carried out. Proper APCM is provided in control of particulate dust emission. There are no additional dust generating sources in the unit. Monitoring of fugitive emissions is being done regularly and records are maintained.Regular monitoring is being done on a monthly basis, all the parameters are well within limit. Results are given in Point No : 18
7.	Storage shed will be constructed for sulfur storage to control fugitive emissions.	**Complied** The unit has proper storage yard to stored the RM as well as the finished good
8.	Adequate stack height and acoustic enclosure as per CPCB norms shall be provided with DG set. Position the DG set so that impact on the receptor is minimal.	**Complied** The unit has provided adequate stack height and acoustic for the DG set.
9.	Total fresh water requirement from GIDC water supply shall not exceed 303 m3/day.	**Complied** The water consumption is well within limit, Details of water consumption is as below.

		<table><tr><th>Consent Qty</th><th>KL/Month</th><th>In KLD</th></tr><tr><td>April-24</td><td>2175</td><td>73</td></tr><tr><td>May-24</td><td>2129</td><td>71</td></tr><tr><td>June-24</td><td>2287</td><td>76</td></tr><tr><td>July-24</td><td>1280</td><td>43</td></tr><tr><td>Aug-24</td><td>1357</td><td>45</td></tr><tr><td>Sep-24</td><td>1138</td><td>37.9</td></tr></table> Water consumption is within the prescribed limit
10.	Total Industrial effluent generation shall not exceed 523 KLD, out of which, 470 KLD of effluent from process shall be treated in ETP and after treatment it shall be sent to MVR/Evaporation system for further treatment. Remaining 53 KLD effluent from Washing, Cooling Tower Blowdown and Scrubber Bleed Liquor shall be treated in MVR/Evaporation system. 517 KLD condensate (from MVR/Evaporation system) shall be segregated into streams, the 244 KLD effluent after achieving the norms of CETP shall be discharge into the underground effluent drainage line to CETP Vapi for further treatment and disposal and remaining 273 KLD condensate shall be treated in RO. 232 KLD permeate from the RO shall be reused in the cooling tower make up/process and 41 KLD reject from the RO shall be sent to the MVR/Evaporation system plant. Domestic wastewater (40 KLD) shall be treated in STP and STP treated water shall be reused for gardening purpose and in cooling tower.The PP should submit the details of utilization to the Integrated Regional Office (IRO), MoEF&CC before 1st July of every year for the activities carried out during the previous year.	**Noted & Complied** Total Industrial effluent generation are well within the limit
11	Continuous online (24x7) monitoring systems for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB servers. For online continuous monitoring of effluent, the unit shall install web cameras with night vision capability and flowmeters in the channel/drain carrying effluent within the premises.	**Complied**. As per the CPCB guideline, 2018 for Fertilizer Industries, we have provided online monitoring systems for following: Effluent/Emission Parameter: 1. pH 2. Flow (ETP outlet treated water to CETP) 3. Process emission for stack connected to SSP process mixture reactor (HF Analyzer, NOx &SOx) Screenshot is shown as below for the online connectivity to RTDMS - CPCB & GLens - GPCB servers:

		
12	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.	**Complied** Training is carried out to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees are done on a regular basis.
13	The PP shall develop/maintain greenbelt over an area of (40%) 7318.0 sq.m inside the premises, preferably within one year of grant of EC.The number of saplings shall be planted and should be of sufficient height, preferably 6ft. The budget earmarked for the plantation shall be kept in a separate account and should be audited annually.The PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of 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 previous year.	**Complied,** The unit has already developed 4,027.59 sq. m green belt (14.2 % of total area) within the plant premises. In addition to the above, the unit has also developed 2967.72 sq. m of green belt outside the premises adjacent to the project boundary The unit is maintaining the Green belt area and continues the same.
14	A separate Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out theEnvironmental Management and Monitoring functions. PP shall engage Environment officials. In addition to this one safety & health officer as per the qualification given in Factories Act 1948 shall be engaged within a month of grant of EC. PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	Complied. The unit has well Environmental Management Cell (having qualified persons with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities for monitoring day to day activity as well as parameters. The unit has also well qualified persons with Engineering/specialization in the project area) for the safety & health officer as per the qualification given in Factories Act 1948.

15.	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management,and risk mitigation measures relating to the project shall be implemented. The budget proposed under EMP is ₹ 39.75 Crore (Capital cost) and Rs. 26.0Lakhs perannum (Recurring cost) shall be kept in a separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs(before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.	**Noted & complied**
16.	In house rain water harvesting structures shall be provided with tank capacity100 KL and collected rainwater shall be reused in the premises.	**Complied** The unit has a proper dedicated rain water harvesting system and reused it within the premises.
17.	The Unit shall follow HWR, 2016 for Waste generation, received, collection, storage,transportation and disposal. The chemical gypsum shall be sent to cement industries.Decontaminated bags shall be shredded and sent to an Authorized recycler. ETPsludge is recycled back to process.Solid waste shall be segregated into dry and wet garbage at site in accordance to the Solid Waste Management Rules, 2016. Wet waste shall be converted into compost and used as manure for greenbelt development. Fly Ash shall be stored in silo and handover to brick manufacturing unit/cement plant.	**Complied,** Waste generated is being segregated and disposed off to authorized mode of CHWTSDF and CHWIFs applicable. Data is given in Point No : 20
18.	Monitoring of the compliance of EC conditions shall be submitted with a third party audit every year.	**Noted**
19.	As proposed, an amount of ₹ 98.6 lakhs shall be allocated towards CER.	**Noted & complied**
20.	PP shall provide adequate Chlorine handling system comprising hood, suction and scrubbing system with Chlorine detector and alarm alert.	**Complied** The unit has provided an adequate Chlorine handling system comprising hood, suction and scrubbing system with Chlorine detector and alarm alert as per the requirement.
21.	The PP 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.	**Complied** Unit has done tree plantation of around 40% of the total area in order to capture Carbon. Unit is also complied EPR guidelines which lead to capture plastic and send for reuse.

<table>
<tr><td></td><td></td><td>Please refer below table for detailed carbon reduction achieved in the reporting year by the unit.
<table><tr><th>Sr No.</th><th>Activity</th><th>Ton CO2e (Apr'24-Sept'24)</th></tr><tr><td>1</td><td>Replacing traditional lights with LED</td><td>13</td></tr><tr><td>2</td><td>Tree plantation</td><td>250</td></tr><tr><td>3</td><td>Diverting landfill waste to coprocessing</td><td>494</td></tr></table>
The unit is also improving its system to reduce the carbon footh prints</td></tr>
<tr><td>22.</td><td>The project proponent shall comply with the environment norms for Fertilizer Industry as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 1607 (E), dated 29.12.2017 under the provisions of the Environment (Protection) Rules, 1986.</td><td>Complied
The unit is complying with the environment norms for Fertilizer Industry as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 1607 (E), dated 29.12.2017 under the provisions of the Environment (Protection) Rules, 1986.</td></tr>
<tr><td>23.</td><td>All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The PP 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. The occupier of new as well as expansion projects shall be required to comply with the provisions of the MSHIC Rules, 1989 including notifying their activities or seeking site approval from the concerned authorities, to address operational safety aspects. In doing so, various schedules, particularly Schedule-5 of the said rules may be referred to.</td><td>Complied.

Unit has submitted an onsite and offsite emergency action plan to DISH and the same implemented in the plant to control the accidents

Unit is also conducting Mock drill & training for any emergency.</td></tr>
<tr><td>24.</td><td>The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.</td><td>Complied
The unit is not using any solvent.</td></tr>
<tr><td>25.</td><td>The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.</td><td>Complied</td></tr>
</table>

<table>
<tr><td>26.</td><td>The occupational health center for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.</td><td>Compiled.

Occupational health check-ups are carried out at a regular interval of 6 months. and Records are being maintained as per Factory act.
<table><tr><th>Month of surveillance</th><th>Total no. of Employees</th></tr><tr><td>April 2024 to September 2024</td><td>207</td></tr></table></td></tr>
<tr><td>27.</td><td>Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.</td><td>Complied
Training is carried out to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees are done on a regular basis.</td></tr>
<tr><td>28.</td><td>The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rainwater in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.</td><td>Complied
The unit has a proper dedicated rain water harvesting system and reused it within the premises.</td></tr>
<tr><td>29.</td><td>The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system.(f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.</td><td>Complied</td></tr>
<tr><td>30.</td><td>There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places.</td><td>Complied</td></tr>
<tr><td>31.</td><td>Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Biomass/Chemicals shall be stored in covered sheds and wind breaking walls/curtains shall be provided around the biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. Industrial a vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.</td><td>Complied</td></tr>
</table>

32.	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the Six -monthly compliance report being submitted to concerned authority.	**Complied** The unit has banned single use plastic in the company premises and also follow the norms of the guidelines of EPR.
33.	As proposed, PP shall comply with the following mitigation measures as Per Ministry's Office Memorandum 31st October, 2019 regarding Projects Located in Critically Polluted Area:	**Complied** AS PER ANNEXURE - A
General Conditions:		
1.	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	**Complied**
2.	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.	**Complied.** Unit is complying with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended from time to time. On-site and Off-site Disaster Management Plans have been prepared and implemented.
3.	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	**Complied** The unit has installed The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
4.	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA(night time).	**Complied** The Unit is taking necessary noise control measures by providing engineering controls like acoustic insulation hood, silencers, enclosures etc on all sources of noise generation.
5.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	**Noted & Complied**

6.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and ClimateChange as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.	**Noted & Complied**
7.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	**Noted & Complied**
8.	The project proponent shall also upload/submit six monthly reports on PARIVESH Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, the respective ZonalOffice of CPCB and SPCB. A copy of Environmental Clearance and six-monthly compliance status report shall be posted on the website of the company.	**Noted**
9.	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Integrated Regional Office of MoEF&CC by email.	**Complied** The environmental statement for the financial year ending 31st March in Form-V is submitted to the Gujarat State Pollution Control Board for the year 2023-2024 was submitted on 15.07.2024 to the concern body.
10.	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 theSPCB/Committee and may also be seen at Website of the Ministry and at https://parivesh.nic.in/.This shall be advertised within seven days from the date of issue of the clearance letter, at least 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** The advertisement in local newspapers and in national newspapers published, the copy of the same also sent to the regional office Vapi.
11.	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.	**Noted**
12.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	**Not Applicable.**