

Ref.No: AIL/DHJ/SAF/ENV/2024-25/008

ID: 62935

Date: 27/05/2024

To,

Deputy Director General of Forests  
Integrated Regional Office (IRO)  
Ministry of Environment, Forest & Climate Change (MoEF&CC)  
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 of October-2023 to March-2024..

Reference:

1. Environment Clearance letter no SEIAA/GUJ/EC/5(f)/1360/2018 dated 14/12/2018
2. Environment Clearance letter no SEIAA/GUJ/EC/5(f)/922/2021 dated 22/06/2021
3. Environment Clearance Letter no SEIAA/GUJ/EC/5(f)/1457/2023 dated 21/11/2023
4. CTE Amendment No. 124234 dated 05/04/2023, Valid upto. 13/09/2029

Respected Sir,

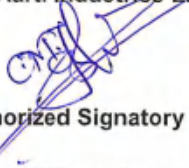
With reference to the subject cited above, we are enclosing herewith the compliance report (monitoring period October-23 to March-24 as per condition number 100 as mentioned in environment clearance letter No.SEIAA/GUJ/EC/5(f)/1360/2018 dated 14/12/2018 for our project 'Synthetic Organic Chemicals' by M/s. Aarti Industries Limited Plot No. Z/111/B, Dahej SEZ-II, Tal. Vagra, Dist. Bharuch, Gujarat.

Kindly refer to the Environment Clearance letter no SEIAA/GUJ/EC/5(f)/922/2021 dated 22/06/2021 & SEIAA/GUJ/EC/5(f)/1457/2023 dated 21/11/2023, we have currently, the Unit has not started project implementation activity (construction activity) which are mentioned in the environmental clearance. We would submit the detailed condition wise EC Compliance report once the project implementation activities are started (i.e. Construction activities).

The unit has acquired adjacent plot no. Z/111/C & D and obtained CTE Amendment No. 124234 dated 05/04/2023 for Inorganic product Calcium Chloride (Cacl<sub>2</sub>)(Solid) and the same has been attached as Annexure-1(A).

Thanking You

Yours faithfully,  
For Aarti Industries Limited



Authorized Signatory

Encl: EC Compliance with Annexures.

Copy To:

1. The Member Secretary, GPCB, Gandhinagar
2. Email to The Regional Director, CPCB, Vadodara
3. Email to SEIAA, Gujarat
4. Uploaded in MOEF&CC(Parivesh) Portal

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

**Compliance report of Environmental Clearance File No.SEIAA/GUJ/EC/5(f)/1360/2018**

**Dated .14/12/2018. October-23 to March-24.**

The proposal is for Environmental Clearance to M/s. Aarti Industries Limited (Unit-III) for setting up of Synthetic Organic Chemicals manufacturing plant at Plot No. Z/111/B, GIDC Estate, SEZ-II, Dahej, Ta.:Vagra, Dist. Bharuch. It is a proposed unit for manufacturing following products, which falls in the category - 5(f) of the schedule of the EIA Notification-2006:

Sr. No.	Name of the Products	CAS No. / CI No.	Quantity (MT/Month)	End-use of products	Compliance Status	Remarks
1	Aryl - Dianhydride	38103-06-09	1350	Used in manufacturing of Polymers	No production due to non-availability of market demand for the said product from October-23 to March-24.	CCA copy is attached as <a href="#">Annexure-A</a>
2	Aryl - Phthalimide	550-44-7	920	Used in manufacturing of Polymers	No production due to non-availability of market demand for the said product from October-23 to March-24.	
3	Dimethyl Phthalate	13-11-3	1000	Used in paints, lacquers, inks, adhesives, and sealant	No production due to non-availability of market demand for the said product from October-23 to March-24.	
4	Di Octyl Phthalate	117-84-0	1000	Used in paints, lacquers, inks, adhesives, and sealant	No production due to non-availability of market demand for the said product from October-23 to March-24.	
<b>Total</b>			<b>4270</b>		<b>0.00 MT</b>	

Note:

Unit has obtained CC&A AWH-118267 dated 01.07.2022 & H-126209 dated 20.11.2023, valid up to 04.03.2025 for required amendment as per market demand for this product list. Unit has EC No.SEIAA/GUJ/EC/5(f)/360/2018 Dated 14/12/2018.

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

Sr. No.	Points	Compliance								
<b>CONDITIONS</b>										
<b>A.1 SPECIFIC CONDITIONS</b>										
1	Leak detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines.	<p>Complied.</p> <p>Unit has implemented the LDAR program during plant operation as per CPCB guidelines. Unit will ensure the below listed conditions for LDAR program,</p> <ol style="list-style-type: none"> <li>1. Approaches for controlling fugitive emissions from equipment leaks shall have proper selection, installation and maintenance of non-leaking or leak-tight equipment. Following initial testing after commissioning, the monitoring for leak detection is to be carried out as a permanent on-going Leak Detection and Repair (LDAR) programme. Finally detected leaks are to be repaired within an allowable time frame.</li> <li>2. Components that shall be covered under LDAR programme include (i) Block Valves; (ii) Control Valve; (iii) Pump seals; (iv) Compressor seals; (v) Pressure Relief Valves; (vi) Flanges - Heat Exchangers; (vii) Flanges - Piping; (viii) Connector - Piping; (ix) Open ended lines; (x) Sampling connections. Equipment and line sizes more than 1.875 cm or 3/4 inch are to be covered.</li> <li>3. Monitoring Requirements and Repair Schedule: Following frequency of monitoring of leaks and schedule for repair of leaks shall be followed.</li> </ol> <table border="1" data-bbox="805 1493 1528 1885"> <thead> <tr> <th data-bbox="805 1493 1045 1581">Components</th> <th data-bbox="1045 1493 1308 1581">Frequency of monitoring</th> <th data-bbox="1308 1493 1528 1581">Repair Schedule</th> </tr> </thead> <tbody> <tr> <td data-bbox="805 1581 1045 1797"></td> <td data-bbox="1045 1581 1308 1797">Quarterly (semiannual after two consecutive periods with &lt; 2% leaks and annual after 5 periods with 2% leaks)</td> <td data-bbox="1308 1581 1528 1885" rowspan="2">Repair will be started within 5 working days and shall be completed within 15 working days after detection of leak for general hydrocarbons.</td> </tr> <tr> <td data-bbox="805 1797 1045 1885">Pump Seals</td> <td data-bbox="1045 1797 1308 1885">Quarterly</td> </tr> </tbody> </table>	Components	Frequency of monitoring	Repair Schedule		Quarterly (semiannual after two consecutive periods with < 2% leaks and annual after 5 periods with 2% leaks)	Repair will be started within 5 working days and shall be completed within 15 working days after detection of leak for general hydrocarbons.	Pump Seals	Quarterly
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Pump Seals	Quarterly									

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
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	Compressor Seals	Quarterly	In the case of benzene, the leak shall be attended immediately for repair.
	Pressure Relief Devices	Quarterly	
	Pressure Relief Devices (after venting)	Within 24 hours	
	Heat Exchanger	Quarterly	
	Process drains	Annually	
	Components that are difficult to monitor	Annually	
	Pumps seals with visible liquids dripping	Immediately	Immediately
	Any components with visible leaks	Immediately	Immediately
	Any components after repair/replacement	Within Five days	-
	<p>4. In Addition, any component observed to be leaking by sight, sound or smell, regardless of concentration (liquid dripping, visible vapor leak) or presence of bubbles using soap solution should be considered as a leak.</p> <p>5. The percentage leaking components should not be more than 2% for any group of components, monitored excluding pumps/compressors. In case of pumps/compressors, it should be less than 10% of the total number of pumps/compressors or three pumps and compressors, whichever is greater.</p> <p>6. Pressure relief and blowdown systems should discharge to a vapor collection and recovery system or to flare.</p> <p>7. Open-ended lines should be closed by a blind flange or purged.</p> <p>8. Totally closed-loop should be used in all routine samples.</p> <p>9. Low emission packing should be used for valves.</p> <p>10. High integrity sealing materials should be used for flanges.</p>		




		<p>As per CPCB guidelines, Unit has installed Instrumental methods for measurement of VOC detection at various locations to identify leak detection in plant areas to arrest on priority basis.</p>  <p><b>TEA Analyzer installed at the Ground Floor in DFG Plant Area.</b></p> <p>Please find attached plant layout for devices attached as <a href="#">Annexure-1</a></p>																
2	<p>Close loop solvent recovery system with an adequate condenser system shall be provided to recover solvent vapors in such a manner that recovery shall not be less than 98 percent and recovered solvent shall be reused in the process within premises.</p>	<p>Complied.</p> <p>Unit has erected a Close loop solvent recovery system along with an extraction column and with help of right chemistry with correct plant design, the unit is reusing 98% recovered solvent for further process within premises.</p> <table border="1" data-bbox="808 1318 1567 1791"> <thead> <tr> <th colspan="4">Close loop Solvent Recovery System(Toluene)</th> </tr> <tr> <th></th> <th>Volume</th> <th>Unit</th> <th>Solvent recovery in %</th> </tr> </thead> <tbody> <tr> <td><b>Feed rate to extraction column</b></td> <td>8119</td> <td>kg/hr</td> <td>-</td> </tr> <tr> <td><b>Recovery from the stripper column</b></td> <td>7957</td> <td>kg/hr solvent</td> <td>98%</td> </tr> </tbody> </table> <p>As shown in table, in the extraction stripper column required total feeding of solvent as per feed rate 8119 kg/hr, after distillation process</p>	Close loop Solvent Recovery System(Toluene)					Volume	Unit	Solvent recovery in %	<b>Feed rate to extraction column</b>	8119	kg/hr	-	<b>Recovery from the stripper column</b>	7957	kg/hr solvent	98%
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Photo of TOC meter

- As per CPCB guidelines and due to less capacity of boiler (3 TPH) and fuel as natural gas, the unit has not installed OCEMS (Online continuous emissions monitoring system) for process gas monitoring.

Photo of OCEMS data from cpcb site for reference purpose



4 All measures shall be taken to prevent soil and groundwater contamination.

Complied.

Unit has taken all necessary precautions to eliminate soil & water contamination, all process areas have been provided with proper flooring and catchment pit so that any spills will be collected, transferred and properly treated.

Following measures have been taken to prevent soil and groundwater contamination :

- Pucca flooring is provided inside plant, raw material/product

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
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- storage area
- Concrete/ Bituminous roads are provided.
- Bunding/dyke to chemical storage areas with collection and transferring facilities.
- Closed loop transfer system provided for effluent, raw materials, products and other chemicals.
- Separate Storm Water and process drains facility
- Checklist for leakage monitoring & compliance,
- Adequate effluent treatment facility,
- Dedicated waste storage area

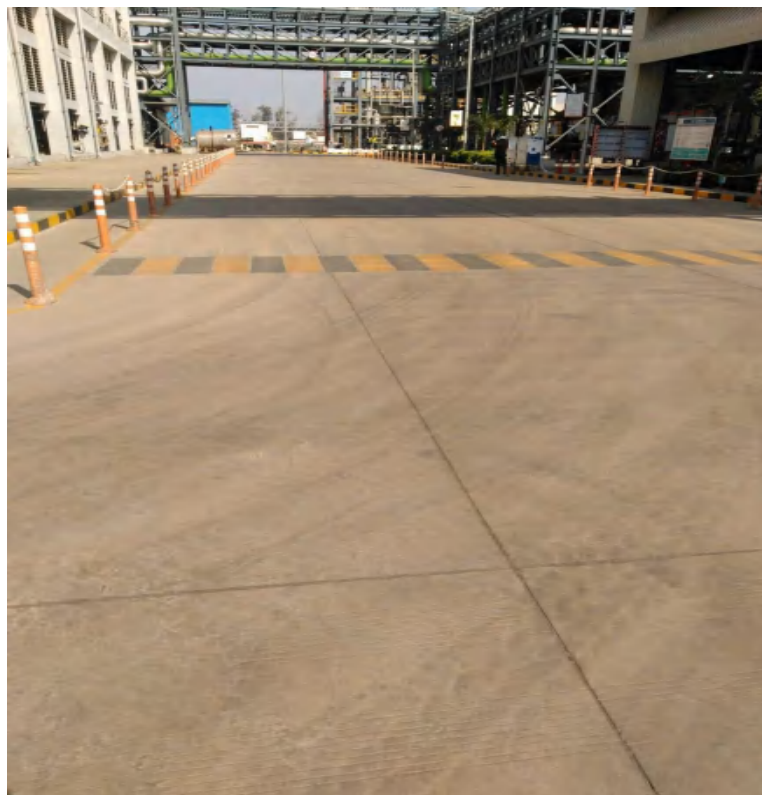
**Bund/ Dyke Wall provided around the chemical storage area to prevent soil & groundwater contamination.**

The Unit is located in GIDC SEZ area and Groundwater digging is not permitted.



**Close loop effluent transfer system for effluent collection**

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
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**Pucca flooring for plant area**



**Dedicated waste storage area**

Soil Report attached for reference as [Annexure -2](#)

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
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<b>A.2 WATER</b>																																																
5	<p>Total water requirement for the project shall not exceed 972 KLD. Unit shall reuse 95 KLD of wastewater (25 KLD of treated sewage for gardening &amp; 70 KLD of RO permeate for cooling purpose) and hence, fresh water requirement shall not exceed 887 KLD and it shall be met through GIDC water supply only. Prior permission from the concerned authority shall be obtained for withdrawal of water.</p>	<p>Complied.</p> <p>The Unit has obtained permission from GIDC as letter vide no: GIDC/DEE(WS)/BRH/120 for withdrawal of water attached as <a href="#">Annexure-3</a>.</p> <p>The data of the last six months of water consumption as per GIDC bill is given in the following table.</p> <table border="1" data-bbox="808 569 1560 995"> <thead> <tr> <th>Particular</th> <th>Unit</th> <th>Oct-23</th> <th>Nov-23</th> <th>Dec-23</th> <th>Jan-24</th> <th>Feb-24</th> <th>Mar-24</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Fresh water consumption</td> <td>Total KL/Month</td> <td>2146</td> <td>900</td> <td>1511</td> <td>840</td> <td>869</td> <td>1471</td> </tr> <tr> <td>Average KLD</td> <td>69.2</td> <td>30</td> <td>48.75</td> <td>27.10</td> <td>29.97</td> <td>47.45</td> </tr> <tr> <td>Permissible limit (KLD)</td> <td colspan="7" style="text-align: center;"><b>844 KLD</b></td> </tr> <tr> <td rowspan="2">Recycled water consumption</td> <td>Total KL/Month</td> <td>455</td> <td>395</td> <td>319</td> <td>262</td> <td>230</td> <td>201</td> </tr> <tr> <td>Average KLD</td> <td>14.68</td> <td>13.17</td> <td>10.29</td> <td>8.45</td> <td>7.93</td> <td>6.48</td> </tr> </tbody> </table> <p>The water consumption is within the consented quantity.</p> <div style="display: flex; justify-content: space-around;">   </div>	Particular	Unit	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Fresh water consumption	Total KL/Month	2146	900	1511	840	869	1471	Average KLD	69.2	30	48.75	27.10	29.97	47.45	Permissible limit (KLD)	<b>844 KLD</b>							Recycled water consumption	Total KL/Month	455	395	319	262	230	201	Average KLD	14.68	13.17	10.29	8.45	7.93	6.48
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6	<p>No ground water shall be tapped for the project requirements.</p>	<p>Complied. The site has also not installed any borewell.</p>																																														
7	<p>The industrial effluent generation from the project shall not exceed 191 KLD.</p>	<p>Complied. The unit has ensured that effluent generation has not exceeded 191 KLD.</p>																																														



**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
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8	<p>Wastewater from the utility section, DM plant and washing section shall be subjected to RO system (Cap. 135 KLD) and RO reject stream shall be sent to ETP.</p>	<p>Complied. The unit has established an ETP of Capacity 125 KLD to treat wastewater generated from the utility section.</p> <p>The unit is ensuring that wastewater from the utility section, DM plant and washing section is subjected to RO system (Cap. 135 KLD) and RO reject stream is sent to ETP.</p> <table border="1"> <thead> <tr> <th colspan="3">Utility Wastewater Generation Data</th> </tr> <tr> <th rowspan="2">Month</th> <th>KL/Month</th> <th>Average KL/D</th> </tr> <tr> <th>-</th> <th>Limit: 132 KL/D</th> </tr> </thead> <tbody> <tr> <td>October-23</td> <td>356</td> <td>11.50</td> </tr> <tr> <td>November-23</td> <td>111</td> <td>3.70</td> </tr> <tr> <td>December-23</td> <td>60</td> <td>1.94</td> </tr> <tr> <td>January-24</td> <td>61</td> <td>1.97</td> </tr> <tr> <td>February-24</td> <td>63</td> <td>2.17</td> </tr> <tr> <td>March-24</td> <td>1</td> <td>0.03</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">RO Permeate generation data</th> </tr> <tr> <th rowspan="2">Month</th> <th>KL/Month</th> <th>KLD</th> </tr> <tr> <th>-</th> <th>Limit: 62 KL/D</th> </tr> </thead> <tbody> <tr> <td>October-23</td> <td>159</td> <td>5.13</td> </tr> </tbody> </table>	Utility Wastewater Generation Data			Month	KL/Month	Average KL/D	-	Limit: 132 KL/D	October-23	356	11.50	November-23	111	3.70	December-23	60	1.94	January-24	61	1.97	February-24	63	2.17	March-24	1	0.03	RO Permeate generation data			Month	KL/Month	KLD	-	Limit: 62 KL/D	October-23	159	5.13
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9	RO permeate shall be reused for industrial purpose.	<p>Complied.</p> <p>RO permeate is reused in cooling towers for industrial purposes against freshwater consumption.</p> <table border="1"> <thead> <tr> <th colspan="2"><b>RO Permeate generation data</b></th> </tr> <tr> <th><b>Month</b></th> <th><b>KL/Month</b></th> </tr> </thead> <tbody> <tr> <td><b>October-23</b></td> <td align="center">159</td> </tr> <tr> <td><b>November-23</b></td> <td align="center">146</td> </tr> <tr> <td><b>December-23</b></td> <td align="center">74</td> </tr> <tr> <td><b>January-24</b></td> <td align="center">56</td> </tr> <tr> <td><b>February-24</b></td> <td align="center">30</td> </tr> <tr> <td><b>March-24</b></td> <td align="center">0</td> </tr> </tbody> </table>	<b>RO Permeate generation data</b>		<b>Month</b>	<b>KL/Month</b>	<b>October-23</b>	159	<b>November-23</b>	146	<b>December-23</b>	74	<b>January-24</b>	56	<b>February-24</b>	30	<b>March-24</b>	0										
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10	Wastewater generated from the process (59 KLD) & RO reject (62 KLD) stream shall be treated in ETP (Cap. 125 KLD) comprising primary, secondary and Tertiary treatment.	<p>Complied.</p> <p>Unit has complied with the same to treat the process wastewater (59 KLD) and RO reject (62 KLD) in ETP comprising primary, secondary and tertiary treatment.</p> <table border="1"> <thead> <tr> <th colspan="4"><b>Cumulative Effluent generation</b></th> </tr> <tr> <th rowspan="2"><b>Month</b></th> <th colspan="2"><b>Total KL/Month</b></th> <th rowspan="2"><b>ETP-125 KLD</b></th> </tr> <tr> <th><b>Process</b></th> <th><b>RO Reject</b></th> </tr> </thead> <tbody> <tr> <td><b>October-23</b></td> <td align="center">120</td> <td align="center">30</td> <td align="center">4.84</td> </tr> <tr> <td><b>November-23</b></td> <td align="center">146</td> <td align="center">49</td> <td align="center">6.50</td> </tr> <tr> <td><b>December-23</b></td> <td align="center">73</td> <td align="center">18.5</td> <td align="center">2.95</td> </tr> <tr> <td><b>January-24</b></td> <td align="center">74</td> <td align="center">14</td> <td align="center">2.84</td> </tr> </tbody> </table>	<b>Cumulative Effluent generation</b>				<b>Month</b>	<b>Total KL/Month</b>		<b>ETP-125 KLD</b>	<b>Process</b>	<b>RO Reject</b>	<b>October-23</b>	120	30	4.84	<b>November-23</b>	146	49	6.50	<b>December-23</b>	73	18.5	2.95	<b>January-24</b>	74	14	2.84
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**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

<b>February-24</b>	0	10.0	0.34
<b>March-24</b>	0	0.00	0.00

**DETAIL OF EFFLUENT TREATMENT PLANT (125 KLD):-**

We have installed an ETP consisting of primary, secondary & tertiary treatment. Treated water is being discharged to the GIDC drainage line.

**1. PRE & PRIMARY TREATMENT**

- a) **Screening:** This is the first unit of the plant in which large or floating materials in the effluent gets arrested and blockage or choking of the downstream equipment can be avoided. This arrested material is removed manually and then will be disposed off suitably.
- b) **Oil & Grease trap:** effluent contains oil & grease. This oil & grease if not removed then creates the problem of scum accumulation and affects the functioning of microbes in aeration tanks. To avoid this, an oil & Grease chamber is provided after the bar screen, where oil & grease is arrested prior to entry into the plant. Accumulated oil removed and disposed of properly.
- c) **Equalization :** To absorb variation in quantity and quality of effluent and to provide uniform flow at the downstream treatment process, a collection or equalization tank is provided. This will avoid shock loading and process upsets of the treatment plant.
- d) **Neutralization:** Neutralization system is provided to neutralize the effluent using lime slurry.
- e) **Flash Mixer, Flocculator & Tube settler** - Installed as part of primary treatment to remove suspended solid.
- f) **De-watering system (Filter Press)-** Bottom of primary & secondary tube settler is passed through filter press. The generated sludge was disposed of at the TSDF site.

**2. SECONDARY TREATMENT**

**ASP – ACTIVATED SLUDGE PROCESS (AERATION) :**

This is the main section of the plant where degradation of organic pollutants with the help of aerobic microorganism takes place. In aeration tank activated biomass is developed in such a way that certain MLSS is maintained for continuous effluent flow which comes to the aeration basin. Effluent is degraded in given retention time and activated sludge is further passed to tube settler and recycled as per requirement. The sludge, which is not required after recirculation, is sent to the filter press. The air supply arrangement is provided for maintaining proper DO.

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		<p><b>3. TERTIARY TREATMENT</b></p> <p>Secondary treated water passed through the sand media filter followed by an activated carbon filter. Filtered water will be collected in the treated water tank from where it will be sent to the GIDC drainage line for disposal.</p> <p>Details of equipment are mentioned in the Point No. 12.</p>																																		
11	<p>Total 121 KLD of treated wastewater shall be discharged through GIDC underground drainage system after conforming GPCB norms.</p>	<p>Complied.</p> <p>Unit has ensured to discharge treated effluent after confirming GPCB norms. Unit has installed an ETP of Capacity 125 KLD. After treatment in ETP, the water is discharged into the GIDC drain.</p> <p>GIDC Discharge permission letter <a href="#">Annexure-4</a>.</p> <table border="1" data-bbox="792 739 1539 1331"> <thead> <tr> <th rowspan="3">Month</th> <th colspan="3">Industrial Treated Effluent discharge</th> </tr> <tr> <th>Total KL/Month</th> <th>Average KL/Day</th> <th>Maximum KL/Day</th> </tr> <tr> <th align="center">—</th> <th colspan="2">Limit: 121 KLD</th> </tr> </thead> <tbody> <tr> <td>October-23</td> <td align="center">71</td> <td align="center">2.29</td> <td align="center">71</td> </tr> <tr> <td>November-23</td> <td align="center">112</td> <td align="center">3.73</td> <td align="center">32</td> </tr> <tr> <td>December-23</td> <td align="center">64</td> <td align="center">2.06</td> <td align="center">37</td> </tr> <tr> <td>January-24</td> <td align="center">169</td> <td align="center">5.45</td> <td align="center">40</td> </tr> <tr> <td>February-24</td> <td align="center">0</td> <td align="center">0</td> <td align="center">0</td> </tr> <tr> <td>March-24</td> <td align="center">0</td> <td align="center">0</td> <td align="center">0</td> </tr> </tbody> </table> <p>Treated effluent discharge is within permissible limit.</p>	Month	Industrial Treated Effluent discharge			Total KL/Month	Average KL/Day	Maximum KL/Day	—	Limit: 121 KLD		October-23	71	2.29	71	November-23	112	3.73	32	December-23	64	2.06	37	January-24	169	5.45	40	February-24	0	0	0	March-24	0	0	0
Month	Industrial Treated Effluent discharge																																			
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12	<p>The unit shall provide an adequate effluent treatment plant (ETP) &amp; RO system for treatment of industrial effluent and it shall be operated regularly and efficiently so as to achieve the GPCB/ CPCB/MoEF&amp;CC norms.</p>	<p>Complied.</p> <p>The unit provided an adequate effluent treatment plant (ETP-125 KLD) &amp; (RO-135 KLD) system for treatment of industrial effluent and it shall be operated regularly and efficiently so as to achieve the GPCB/ CPCB/MoEF&amp;CC norms.</p>																																		

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**



**Effluent Treatment Plant capacity: 125 KLD**



**RO system capacity -135KLD**

Equipment list and ETP PFD attached as [Annexure-5](#)

<b>ETP Equipment checklist</b>				
<b>Sr.no.</b>	<b>Name of equipment</b>	<b>Capacity, KL</b>	<b>MOC</b>	<b>Quantity</b>
1	Screen Chamber	1.76	RCC	1
2	Oil & Grease trap	2.91	RCC	1
3	Collection Tank	136	PP-FRP	1
4	Neutralization Tank	3	MS-FRP	1

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	5	Flash Mixer Tank	1.5	MS-FRP	1
	6	Flocculator Tank	3	MS-FRP	1
	7	Primary Tube Settler	24	MS-FRP	1
	8	Aeration Tank	66.47	MS-FRP	4
	9	Sludge Holding Tank	14.73	MS-FRP	1
	10	Secondary Tube Settler	24	MS-FRP	1
	11	Intermediate Storage Tank	10.8	MS-FRP	1
	12	Treated Water Tank	10.8	MS-FRP	1

13 The domestic wastewater generation shall not exceed 47 KL/Day for proposed project and it shall be treated in STP. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB.

Complied.  
Unit has ensured that domestic wastewater generation has not exceeded 47 KL/Day and has ensured to treat the same in STP. The treated water is ensured to be used for gardening purposes.

Domestic waste water generation		
Month	Total KL/Month	Average KL/ Day
	-	<b>Limit- 47 KLD</b>
<b>October-23</b>	349.00	11.26
<b>November-23</b>	327.00	10.90
<b>December-23</b>	305.00	9.84
<b>January-24</b>	278.00	8.97
<b>February-24</b>	230.00	7.93
<b>March-24</b>	239.00	7.71

**Domestic waste water generation is within permissible limits.**

**Unistar NABL Certification No.: TC-7753**

Domestic Treated Water Parameters			
Month	BOD	TSS	Residual Chlorine
<b>Limit</b>	<b>30 mg/L</b>	<b>20 mg/L</b>	<b>0.5 mg/L Min.</b>

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
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		<table border="1" data-bbox="792 220 1567 583"> <tr> <td>October-23</td> <td>4.33</td> <td>7.25</td> <td>1.11</td> </tr> <tr> <td>November-23</td> <td>3.25</td> <td>4.25</td> <td>4.92</td> </tr> <tr> <td>December-23</td> <td>7.33</td> <td>8.33</td> <td>4.09</td> </tr> <tr> <td>January-24</td> <td>3.60</td> <td>2.00</td> <td>1.47</td> </tr> <tr> <td>February-24</td> <td>5.00</td> <td>3.25</td> <td>2.75</td> </tr> <tr> <td>March-24</td> <td>3.80</td> <td>3.20</td> <td>1.20</td> </tr> </table> <p><b>Treated water parameters are well within permissible limits.</b></p>	October-23	4.33	7.25	1.11	November-23	3.25	4.25	4.92	December-23	7.33	8.33	4.09	January-24	3.60	2.00	1.47	February-24	5.00	3.25	2.75	March-24	3.80	3.20	1.20
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March-24	3.80	3.20	1.20																							
14	<p>During monsoon season when treated sewage may not be required for the plantation/ Gardening /Green belt purpose, it shall be stored within premises. There shall be no discharge of wastewater outside the premises in any case.</p>	<p>Complied.</p> <p>Unit has ensured to not discharge treated sewage water outside the premises and the same is being used for gardening / greenbelt purposes.</p>																								
15	<p>Unit shall provide a buffer water storage tank of adequate capacity for storage of treated wastewater during rainy days.</p>	<p>Complied.</p> <p>Unit has provided a buffer water storage tank for the storage of treated wastewater during rainy days.</p> <p>Unit having buffer tank having capacity 100 KL to store treated wastewater which is being reused for industrial purpose.</p>																								
16	<p>The unit shall provide metering facility at the inlet and outlet of the ETP, RO &amp; MEE system and maintain records for the same.</p>	<p>Complied.</p> <p>Unit has provided a magnetic flow meter at the inlet &amp; outlet of ETP &amp; RO.</p> <div data-bbox="863 1188 1430 1747" data-label="Image"> </div> <p align="center"><b><u>Flow Meter at the ETP Inlet</u></b></p>																								



**Flow Meter at the ETP Outlet (GIDC Discharge)**



**Flow Meter at RO Inlet (CT Blowdown)**





**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

Observation	Stack Gas Report									
	Stack A			Stack B			Stack C			Stack All Total
	Initial Reading	Final Reading	Value	Initial Reading	Final Reading	Value	Initial Reading	Final Reading	Value	
Effluent from HRSG to ESP	127144	127168	2.24	22222	22222	0.00	22222	22222	0.00	
Collection from ESP to ESP	26767	26864	0.10	22222	22222	0.00	22222	22222	0.00	
SBC Outlet	11662	11625	0.37	22222	22222	0.00	22222	22222	0.00	
Pressure to ESP	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.0	0.00	
ESP Inlet	15206	15206	0.00	22222	22222	0.00	22222	22222	0.00	
ESP Outlet	7122	7022	0.00	2222	2222	0.00	2222	2222	0.00	
Highlighted Points	Stack A Remarks			Stack B Remarks			Stack C Remarks			Highlighted Points
	- Air filter change done 16/03/23 - Air filter change done 17/03/23 - Air filter change done 18/03/23 - Air filter change done 19/03/23 - Air filter change done 20/03/23 - Air filter change done 21/03/23 - Air filter change done 22/03/23 - Air filter change done 23/03/23 - Air filter change done 24/03/23 - Air filter change done 25/03/23 - Air filter change done 26/03/23 - Air filter change done 27/03/23 - Air filter change done 28/03/23 - Air filter change done 29/03/23 - Air filter change done 30/03/23 - Air filter change done 31/03/23 - Air filter change done 01/04/23 - Air filter change done 02/04/23 - Air filter change done 03/04/23 - Air filter change done 04/04/23 - Air filter change done 05/04/23 - Air filter change done 06/04/23 - Air filter change done 07/04/23 - Air filter change done 08/04/23 - Air filter change done 09/04/23 - Air filter change done 10/04/23 - Air filter change done 11/04/23 - Air filter change done 12/04/23 - Air filter change done 13/04/23 - Air filter change done 14/04/23 - 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**A.3 AIR**


18	Unit shall not exceed fuel consumption as mentioned below: <table border="1" data-bbox="203 913 763 1449"> <thead> <tr> <th>S r. N o</th> <th>Source of emission with capacity</th> <th>Stack Height (m)</th> <th>Type of Fuel</th> <th>Quantity of fuel MT/day</th> <th>Types of emissions i.e. Air Pollutants</th> <th>APCM</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Boiler-1 (15 TPH)</td> <td>30</td> <td>NG</td> <td>1000 Nm3/ Hr</td> <td>PM SO2 NOX</td> <td rowspan="2">Adequate stack height</td> </tr> <tr> <td>2</td> <td>Thermo pack (22 Lac Kcal/Hr)</td> <td>30</td> <td>NG</td> <td>300 Nm3 /Hr</td> <td>PM SO2 NOX</td> </tr> <tr> <td>3</td> <td>DG set (standby (3 Nos) Capacity = 1500 KVA (Each)</td> <td>11</td> <td>Diesel</td> <td>660 Lit/ Hr</td> <td>PM SO<sub>2</sub> NO<sub>x</sub></td> <td>Acoustic enclosure</td> </tr> </tbody> </table>	S r. N o	Source of emission with capacity	Stack Height (m)	Type of Fuel	Quantity of fuel MT/day	Types of emissions i.e. Air Pollutants	APCM	1	Boiler-1 (15 TPH)	30	NG	1000 Nm3/ Hr	PM SO2 NOX	Adequate stack height	2	Thermo pack (22 Lac Kcal/Hr)	30	NG	300 Nm3 /Hr	PM SO2 NOX	3	DG set (standby (3 Nos) Capacity = 1500 KVA (Each)	11	Diesel	660 Lit/ Hr	PM SO <sub>2</sub> NO <sub>x</sub>	Acoustic enclosure	Complied.  Unit has not exceeded the fuel consumption norms as mentioned and agreed as per the given table.  The fuel consumption is given below in the following table: <table border="1" data-bbox="836 1039 1534 1470"> <thead> <tr> <th>Month</th> <th>Natural Gas (Nm3/hrs)</th> <th>Diesel(Lit/hrs)</th> </tr> </thead> <tbody> <tr> <td><b>limit</b></td> <td><b>900 Nm3/ hrs.</b></td> <td><b>660 Lit/ hrs.</b></td> </tr> <tr> <td><b>October-23</b></td> <td>0.00</td> <td>1.30</td> </tr> <tr> <td><b>November-23</b></td> <td>0.00</td> <td>0.36</td> </tr> <tr> <td><b>December-23</b></td> <td>0.00</td> <td>0.36</td> </tr> <tr> <td><b>January-24</b></td> <td>0.00</td> <td>0.42</td> </tr> <tr> <td><b>February-24</b></td> <td>0.00</td> <td>0.37</td> </tr> <tr> <td><b>March-24</b></td> <td>0.00</td> <td>0.34</td> </tr> </tbody> </table> <p><b>NG &amp; Diesel consumption are in permissions limits.</b></p>	Month	Natural Gas (Nm3/hrs)	Diesel(Lit/hrs)	<b>limit</b>	<b>900 Nm3/ hrs.</b>	<b>660 Lit/ hrs.</b>	<b>October-23</b>	0.00	1.30	<b>November-23</b>	0.00	0.36	<b>December-23</b>	0.00	0.36	<b>January-24</b>	0.00	0.42	<b>February-24</b>	0.00	0.37	<b>March-24</b>	0.00	0.34
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<b>February-24</b>	0.00	0.37																																																			
<b>March-24</b>	0.00	0.34																																																			
19	Unit shall provide adequate APCM for flue gas generation sources as mentioned above.	Complied. Unit has provided adequate stack height for boiler & Thermo-pack and Acoustic enclosure for DG set as Air pollution Control Measures.  - The stack height of Boiler is 30 mtr with fuel NG.  DG Stack monitoring reports are attached as <a href="#">Annexure-6</a> .																																																			




**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

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20	Unit shall provide Water Scrubber followed by Carbon adsorption tower as APCM with Storage tanks, Vessels & Vacuum Pumps to Control VOCs.	<p>Complied. Unit has erected a scrubber followed by a carbon adsorption tower as APCM.</p> <ul style="list-style-type: none"> <li>Scrubber stack height 11 mtr.</li> </ul> <p align="center"><b><u>Unistar NABL Certification No.: TC-7753</u></b></p> <table border="1"> <thead> <tr> <th colspan="8">Stack Monitoring</th> </tr> <tr> <th>Location</th> <th>Param eter</th> <th>Oct-23</th> <th>Nov-23</th> <th>Dec-23</th> <th>Jan-24</th> <th>Feb-24</th> <th>Mar-24</th> </tr> </thead> <tbody> <tr> <td><b>DFG PLANT</b></td> <td><b>TVOC</b></td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table> <p>Process Stack Monitoring was not carried out for the period of Oct-23 to Mar-24 due to the plant under shutdown condition throughout the month for preventive/ corrective maintenance jobs.</p> <p>Reports are attached at Point No. 22</p>	Stack Monitoring								Location	Param eter	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	<b>DFG PLANT</b>	<b>TVOC</b>	--	--	--	--	--	--																																				
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21	There shall be no process gas emission from the proposed project.	<p>Complied. No process gas emissions are generated from the proposed project. We check the emission levels regularly to ensure the same.</p>																																																												
22	Measures shall be taken to reduce the process vapor emissions as far as possible.	<p>Complied. Unit is monitoring the VOC and other fugitive emissions by third party monitoring. For VOC and other fugitive emissions, the unit has installed a scrubber which is followed by a Carbon Adsorption</p>																																																												

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

		<p>system. Also our process is in a closed loop that controls the undesired emissions.</p> <p>Fugitive emissions report attached as <a href="#">Annexure-7</a>.</p> 
<p>23</p>	<p>The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety &amp; Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.</p> <p>Internal roads shall be either concrete or asphalt or paved properly to reduce the fugitive emission during vehicular movement.</p>	<p>Complied.</p> <p>Unit has followed guidelines laid by DISH to reduce the fugitive emissions in the work zone.</p> <p>Workplace monitoring report for fugitive emissions attached as <a href="#">Annexure-8</a>.</p> <p>Internal roads are concreted. Photograph attached as <a href="#">Annexure-9</a></p>

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	<p>Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.</p> <p>A green belt shall be developed all round the plant boundary and also the roads to mitigate fugitive &amp; transport dust emission.</p>	<p>Water sprinklers are provided to control air borne dust at suitable locations in the plant.</p> <p>Green belt is developed around the roads and the periphery of the site to mitigate fugitive &amp; transport dust emission. <a href="#">Annexure-10.</a></p> 
24	<p>Closed handling and charging system shall be provided for chemicals.</p>	<p>Complied. Unit has provided a closed handling system for hazardous chemicals. Plant is operated under the DCS to add enhanced control and safety with close loop charging of chemicals.</p>
25	<p>Pumps shall be provided with mechanical seals to prevent leakages.</p>	<p>Complied. Unit has provided pumps with mechanical seals to prevent leakages. Photograph attached as <a href="#">Annexure -11</a> .</p>
26	<p>Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx and VOC shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.</p>	<p>Complied. Ambient air monitoring stations have been installed at 03 locations at the site covering upwind and downwind directions as per the GPCB guidelines. Unit has ensured to monitor the prescribed parameters and maintain the records.</p>

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The ambient air monitoring report is attached in [Annexure-12](#)

**Unistar NABL Certification No.: TC-7753**

AAQMS Monitoring							
Location	Parameter	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24
Near Main gate	PM10 (100 µg/m3)	74.5	73.6	73.4	76.0	78.0	81.9
	PM2.5 (60 µg/m3)	24.8	24.8	26.7	25.7	28.6	33.0
	SO2 (80 µg/m3)	17.0	16.7	19.1	17.9	24.5	23.1
	NO2 (80 µg/m3)	22.2	21.5	22.0	22.6	28.0	28.1
Near ETP Plant	PM10 (100 µg/m3)	69.6	73.6	75.7	73.7	82.8	78.0
	PM2.5 (60 µg/m3)	22.8	26.0	27.6	22.9	31.7	30.9
	SO2 (80 µg/m3)	18.0	18.8	18.3	18.4	23.1	22.1
	NO2 (80 µg/m3)	23.0	23.5	23.9	23.2	25.9	27.3
Near	PM10	71.8	68.8	70.9	69.9	77.8	75.9

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	<b>DMP Plant</b>	(100 µg/m3)						
	PM2.5 (60 µg/m3)	24.0	23.8	25.0	23.9	25.0	30.0	
	SO2 (80 µg/m3)	17.0	17.0	17.1	18.0	23.1	21.2	
	NO2 (80 µg/m3)	22.5	23.1	23.0	22.4	27.4	25.1	

**A.4 SOLID/HAZARDOUS WASTE**

27	<p>Hazardous/solid waste management shall be as given at the side column table.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">S r. N o</th> <th style="width: 15%;">Type/Name of Hazardous waste</th> <th style="width: 10%;">Source of generation</th> <th style="width: 10%;">Category and schedule as per HW rules</th> <th style="width: 10%;">Quantity (MT/Annum)</th> <th style="width: 50%;">Disposal Method</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ETP Waste</td> <td>ETP</td> <td>35.3</td> <td>280</td> <td>Collection, Storage, Transportation, d TSDf</td> </tr> <tr> <td>2</td> <td>Discarded containers/bags</td> <td>Packaging material</td> <td>33.1</td> <td>20</td> <td>Collection, Storage, Transportation, d TSDf</td> </tr> <tr> <td>3</td> <td>Used oil</td> <td>Maintenance of machines &amp; equipment</td> <td>5.1</td> <td>2.4</td> <td>Collection, Storage, Transportation, d TSDf</td> </tr> <tr> <td>4</td> <td>Spent carbon</td> <td>Process, ETP &amp; APC M</td> <td>28.3</td> <td>12</td> <td>Collection, Storage, Transportation, d TSDf</td> </tr> <tr> <td>5</td> <td>Residue</td> <td>Process</td> <td>20.3</td> <td>12</td> <td>Collection, Storage, Transportation, d TSDf</td> </tr> <tr> <td>6</td> <td>Insulation waste</td> <td>Plant and machinery</td> <td>--</td> <td>20</td> <td>Collection, Storage, Transportation, d TSDf</td> </tr> <tr> <td>7</td> <td>Off-specification product</td> <td>process</td> <td>--</td> <td>24</td> <td>Collection, Storage, Transportation, d TSDf</td> </tr> </tbody> </table>	S r. N o	Type/Name of Hazardous waste	Source of generation	Category and schedule as per HW rules	Quantity (MT/Annum)	Disposal Method	1	ETP Waste	ETP	35.3	280	Collection, Storage, Transportation, d TSDf	2	Discarded containers/bags	Packaging material	33.1	20	Collection, Storage, Transportation, d TSDf	3	Used oil	Maintenance of machines & equipment	5.1	2.4	Collection, Storage, Transportation, d TSDf	4	Spent carbon	Process, ETP & APC M	28.3	12	Collection, Storage, Transportation, d TSDf	5	Residue	Process	20.3	12	Collection, Storage, Transportation, d TSDf	6	Insulation waste	Plant and machinery	--	20	Collection, Storage, Transportation, d TSDf	7	Off-specification product	process	--	24	Collection, Storage, Transportation, d TSDf	<p>Complied. Hazardous waste management is as per the given column.</p> <p>The hazardous waste inventory during the monitoring period is given in the table below:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th colspan="4" style="text-align: center;"><b>HAZARDOUS WASTE DATA: October-23 to March-24</b></th> </tr> <tr> <th style="width: 25%;">Waste Type</th> <th style="width: 25%;">Category</th> <th style="width: 25%;">Generation (MT)</th> <th style="width: 25%;">Disposal (MT)</th> </tr> </thead> <tbody> <tr> <td>ETP Waste</td> <td>35.3</td> <td>10.26</td> <td>12.26</td> </tr> <tr> <td>Residue</td> <td>26.1</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>Discarded Containers/Bags</td> <td>33.1</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>Used Oil</td> <td>5.1</td> <td>0.60</td> <td>1.27</td> </tr> <tr> <td>Insulation Waste</td> <td>33.1</td> <td>4.34</td> <td>8.44</td> </tr> <tr> <td>Spent Carbon</td> <td>28.3</td> <td>2.00</td> <td>0.00</td> </tr> <tr> <td>Off-Specification Product</td> <td>26.1</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>Non-recyclable Plastic waste/PPE waste/PPE waste/bags/Cotton Waste</td> <td>33.1</td> <td>0.00</td> <td>0.95</td> </tr> <tr> <td>Concentrated ML from reactor tank &amp; Equipment Washing</td> <td>26.1</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>Packaging Material Decontamination &amp; Detoxification</td> <td>34.1</td> <td>0.00</td> <td>0.00</td> </tr> <tr> <td>Mix Garbage</td> <td>26.1</td> <td>0.352</td> <td>1.95</td> </tr> </tbody> </table>	<b>HAZARDOUS WASTE DATA: October-23 to March-24</b>				Waste Type	Category	Generation (MT)	Disposal (MT)	ETP Waste	35.3	10.26	12.26	Residue	26.1	0.00	0.00	Discarded Containers/Bags	33.1	0.00	0.00	Used Oil	5.1	0.60	1.27	Insulation Waste	33.1	4.34	8.44	Spent Carbon	28.3	2.00	0.00	Off-Specification Product	26.1	0.00	0.00	Non-recyclable Plastic waste/PPE waste/PPE waste/bags/Cotton Waste	33.1	0.00	0.95	Concentrated ML from reactor tank & Equipment Washing	26.1	0.00	0.00	Packaging Material Decontamination & Detoxification	34.1	0.00	0.00	Mix Garbage	26.1	0.352	1.95
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		<p>The Unit has been granted CCA Amendment (H- 126209) on 20/11/2023 under which following waste category has been added to latest CCA (AWH-118267) &amp; residue generated is disposed off under these category. The provisional CCA copy is attached as <a href="#">Annexure-13</a>. The added waste details are as follows:</p> <ol style="list-style-type: none"> <li>1. Concentrated ML from reactor tank &amp; Equipment Washing (Permissible limit: 94 MTA)</li> <li>2. Packaging Material Decontamination &amp; Detoxification (Permissible limit: 45 MTA)</li> <li>3. Spent Solvent (Permissible limit: 38 MTA).</li> </ol>
28	Authorized end-users shall have permissions from the concerned authorities under the Rule-9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.	<p>Complied.</p> <p>The Unit has obtained membership from BEIL &amp; RSPL for landfill and pre-processing. The copy has been attached as <a href="#">Annexure-14</a>. Our wastes generated are not being sent to end users. Hence, Rule-9 applicability is not there.</p>
<b>A.5 OTHER</b>		
29	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. Jyoti Om Chemical Research Center Pvt. Ltd., Ankleshwar was submitted by project proponent vide letter no. NIL dated 27/04/2018 and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered.	<p>Complied.</p> <p>Unit is strictly adhering to the commitments made to the SEAC. EMP Compliance Report is attached as <a href="#">Annexure-15</a>.</p>
<b>B. GENERAL CONDITIONS</b>		
<b>B.1 CONSTRUCTION PHASE</b>		
30	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.	<p>Complied.</p> <p>Construction phase has been completed. We ensured to follow the stipulated conditions during our construction phase. Also, we will ensure to follow the prescribed conditions in future construction phases.</p>
31	Project proponent shall ensure that the surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.	
32	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	
33	First Aid Box shall be made readily available in adequate quantity at all the times.	

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34	The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Services) Act 1996 and Gujarat rules made there under their subsequent amendments. Local bye-laws of concern authority shall complied in letter and spirit.	
35	Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during the construction phase.	
36	Use of Diesel Generator (DG) sets during the construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.	
37	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.	
38	All topsoil excavated during construction activity shall be used in horticulture/ landscape development within the project site.	
39	Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during the construction phase shall not create an adverse effect on neighbouring communities.	
40	Project proponents shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete (RMC) and lead free paints in the project.	
41	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.	
<b>B.2 OPERATION PHASE</b>		
<b>B.2.1 WATER</b>		
42	The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	Complied.

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		<p>Unit has installed water meters and maintains the record on a daily basis. The details of consumption records are mentioned in point number 05.</p> <p>The photographs of the water meter are attached as <a href="#">Annexure -16</a></p>
43	<p>All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously strive to reduce, recycle and reuse the treated effluent.</p>	<p>Complied.</p> <p>The unit has adopted Best Available Technology (BAT) to reduce, recycle and reuse the treated effluent.</p> <p>The unit is using RO for recycling of utility wastewater, ultimately reducing the requirement for fresh water.</p> <p>For gardening purposes we are using treated water from STP and using low angle sprinkler systems and drip irrigation systems.</p>
<b>B.2.2 AIR</b>		
44	<p>In case of use of spray dryer, the unit shall provide the adequate &amp; efficient APCMs with spray dryer so that there should not be any adverse impact on human health &amp; environment. Unit shall carry out third party monitoring of the proposed Spray dryer &amp; it's APCM through the credible institute and study report for impact on Environment and Human Health shall be submitted to GPCB every year along with a half yearly compliance report.</p>	<p>Not Applicable.</p>
45	<p>Acoustic enclosure shall be provided to the DG sets (If applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.</p>	<p>Complied.</p> <p>Unit has erected Acoustic enclosure to DG sets to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.</p>



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		 <p align="center"><b><u>Photo of DG with Acoustic enclosure</u></b></p>
46	Stack/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.	<p>Complied. Unit has ensured to provide adequate stack height for flue gas emissions. Unit has provided adequate stack height for the boiler. - The stack heights of Boiler 30 mtr.</p> <p>Unit has provided a carbon adsorption system as APCM to control VOCs - Stack height 11 mtr.</p>
47	Flue gas emission & Process gas emission (If any) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.	<p>Complied. Unit has complied with the norms as per GPCB/CPCB/MoEF&amp;CC. Monitoring reports for the same are provided in point number 19 as <a href="#">Annexure-6</a>.</p>
48	All the reactors/ vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	<p>Complied. Unit has ensured that all reactors and vessels are in closed loop to reduce the fugitive emission.</p>
<b>B.2.3 HAZARDOUS/SOLID WASTE</b>		
49	The company shall strictly comply with the rules and regulations with regards to handling and disposal of hazardous waste in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016, as	<p>Complied.  The company strictly complies with the rules and regulations with regards to handling and disposal of hazardous waste in accordance</p>

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	may be amended from time to time. Authorization of the GPCB shall be obtained for collection/treatment/storage/ disposal of hazardous wastes.	with the Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time.  Unit has obtained CC&A, Consent No. H-126209 on 20/11/2023 and valid up to 04/03/2025 and a copy has been attached as <a href="#">Annexure-13</a> .												
50	Hazardous waste shall be dried, packed and stored in a separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	Complied.  Unit has provided a separate designated hazardous waste storage facility with pucca bottom and leachate collection facility.												
51	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)	Complied.  The Unit has obtained membership from BEIL & RSPL.The copy has been attached as <a href="#">Annexure- 14</a> .												
52	Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988 and rules made there under.	Complied.  Unit has ensured to deploy trucks/Tankers as per the provisions under the Motor Vehicle Act, 1988 and rules made there under for the transportation of hazardous waste.												
53	The design of the Trucks/ tankers shall be such that there is no spillage during transportation.	Complied.  Unit has ensured to deploy trucks/Tankers suitable for hazardous waste so that there will not be any leakage / spillage during transportation. We have implemented and maintained a proper checklist for the same.												
54	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	Complied.  Unit has put all possible efforts for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.  <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="4" style="text-align: center;"><b>HAZARDOUS WASTE DATA October'23 to March'24</b></th> </tr> <tr> <th style="text-align: center;">Waste Type</th> <th style="text-align: center;">Category</th> <th style="text-align: center;">Generation (MT)</th> <th style="text-align: center;">Disposal (MT)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Mix Garbage</td> <td style="text-align: center;">26.1</td> <td style="text-align: center;">0.352</td> <td style="text-align: center;">1.95</td> </tr> </tbody> </table>	<b>HAZARDOUS WASTE DATA October'23 to March'24</b>				Waste Type	Category	Generation (MT)	Disposal (MT)	Mix Garbage	26.1	0.352	1.95
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Mix Garbage	26.1	0.352	1.95											
55	Management of fly ash (If any) shall be as per the Fly Ash Notification 2009 & its amendment from time to time and it shall ensure that there is 100% utilization of fly ash to be generated from the unit.	Not applicable.  Unit is not using coal. Hence, fly ash will not be generated from the unit.												
<b>B.2.4 SAFETY</b>														
56	The occupier/ manager shall strictly comply with the provisions under the Factories Act 1948 and Gujarat Factories Rules 1963.	Complied.  The occupier has strictly complied with the provisions under the Factories Act 1948 and Gujarat Factories Rules 1963.												
57	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC)	Complied.												

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

	<p>1989, as amended time to time and the Public Liability Insurance Act for Handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosive and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.</p>	<p>The Unit has obtained necessary approvals from the Chief Controller of Explosives and Concerned Government authorities as per MSIHC Rules 1989.</p> <p>The copy of PLI act is attached as <a href="#">Annexure-17</a>.</p> <p>Onsite emergency plan submission O/C copy <a href="#">Annexure-18</a></p>
<p>58</p>	<p>Main entry and exit shall be separate and clearly marked in the facility.</p>	<p>Complied. Main entry &amp; Exit are separated and have been constructed accordingly. The photos of the plant with Entry and Exit clearly attached.</p>  <p align="center"><b>Photo of the Entry &amp; Exit Gate</b></p>
<p>59</p>	<p>Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.</p>	<p>Complied. Sufficient peripheral open passage is provided in the margin area for free movement of fire tender/ emergency vehicle around the premises.</p>

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**




**Photos of the Fire Tender**



**Photos of Fire Tender at site**

60	Storage of flammable chemicals shall be sufficiently away from the production area.	<p>Complied.</p> <p>Unit has been constructed as per prevailing rules of government authorities for storage of flammable chemicals to keep the flammable chemicals sufficiently away from the production area.</p>
61	Sufficient number of fire extinguishers shall be provided near the plant and storage area.	<p>Complied.</p> <p>Unit has erected Sufficient number of fire extinguishers near the plant and storage area. Total 175 Nos. Fire extinguisher available in plant premises.</p> <p>Also, the unit has a fire tender to mitigate any adverse incidents.</p>

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

		 <p align="center"><b>Photos of the Fire Tender</b></p>																		
62	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic/ hazardous chemicals.	<p>Complied.</p> <p>Unit has taken necessary precautions to avoid any kind of accident during storage and handling of toxic and hazardous chemicals as per the prevailing rules of government authorities.</p>																		
63	All the toxic/ hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	<p>Complied.</p> <p>Unit has ensured to maintain optimum quantities of toxic / hazardous chemicals. Also, the unit has ensured to obtain all necessary permissions in this regard before commencing the expansion activities.</p> <p align="center"><b><u>PESO License No.: P/WC/GJ/15/2711</u></b></p> <table border="1" data-bbox="792 1098 1567 1524"> <thead> <tr> <th>Classification as per Petroleum class</th> <th>Name of material</th> <th>Volume of tank</th> <th>Consented Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Class A</td> <td>Toluene</td> <td>30 KL</td> <td rowspan="2">60 KL</td> </tr> <tr> <td>Methenolone</td> <td>30 KL</td> </tr> <tr> <td>Class B</td> <td>Diesel</td> <td>44 KL</td> <td>41 KL</td> </tr> <tr> <td colspan="2"><b>TOTAL</b></td> <td><b>104 KL</b></td> <td><b>101 KL</b></td> </tr> </tbody> </table>	Classification as per Petroleum class	Name of material	Volume of tank	Consented Quantity	Class A	Toluene	30 KL	60 KL	Methenolone	30 KL	Class B	Diesel	44 KL	41 KL	<b>TOTAL</b>		<b>104 KL</b>	<b>101 KL</b>
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64	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment Report.	<p>Complied.</p> <p>The unit has adhered to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment Compliance Report submitted earlier.</p>																		
65	Only flameproof electrical fittings shall be provided in the plant premises.	<p>Complied.</p> <p>Unit has installed flameproof electrical fittings in the plant premises. Photograph of flameproof light is attached as <a href="#">Annexure-19</a> for reference.</p>																		



**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
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66	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks/ containers instead of on single large capacity tank/ containers.	Complied. The unit has ensured minimum storage of hazardous chemicals and the unit has restricted the use of single large capacity tanks/ containers for storage of hazardous chemicals.
67	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/ dyke walls shall be provided for storage tanks for hazardous Chemicals.	Complied.  Unit has provided necessary engineering controls to avoid leakages and hazardous chemical storage tanks erected inside a Bund / dyke wall for 1st phase and the unit is providing the same for next phases.  The tanks are fitted with level control switches linked with the DCS system for optimum safety level.  Photograph attached as below,  Peso License has been attached as <a href="#">Annexure-20</a> .



**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
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**Photo of raw material storage area with required de-choking facility**



**Photo of PESO tank farm area**

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**


68	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer to that minimal human exposure occurs.	<p>Complied.</p> <p>Unit has taken all necessary measures to minimize the human exposure to hazardous chemicals by closed loop pumping / vacuum transfer so that minimal human exposure occurs.</p>
69	Tie up shall be done with nearby health care unit/ doctor for seeking immediate medical attention in the case of emergency.	<p>Complied.</p> <p>Unit has tied up with nearby health care units/ doctors for seeking immediate medical attention in the case of emergency. The list of nearby healthcare attached as <a href="#">Annexure-21</a>.</p> <p>Unit has also developed OHC at site.</p> <p><b>Details of OHC Staff -</b></p> <p>One full time Factory Medical Officer          - Dr. Avanika Parmar (MBBS CIH)          Male Nurse (24 * 7): (GNM)          - Mr. Gaurav Sharma          - Mr. Gajendra Chaturvedi          - Mr. Sonu Chaturvedi          - Mr. Shufiyan kadiwala</p> <p>Ambulance:          - Two ambulances with round the clock ambulance driver available at AIL Zone III.</p> 



**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
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		 <p style="text-align: center;"><b><u>Photos of two 24*7 Ambulance Van at Site</u></b></p>
70	<p>Personal Protective Equipment (PPEs) shall be provided to workers and its usage shall be ensured and supervised.</p>	<p>Complied. Unit has maintained necessary Personal Protective Equipment (PPEs) and provided the same to workers and Unit has encouraged and ensured that PPE's will be used by workers as per the requirement.</p> <p>PPEs- Helmet, Goggles, Safety Shoes, aprons, safety harness, ear plug &amp; ear muff etc.</p>
71	<p>First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.</p>	<p>Complied. First Aid Box is available and required Antidotes for the chemicals used in the unit will be made available in adequate quantity.</p>

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

		 <p>Details of the First Aid box attached as <a href="#">Annexure-22</a>.</p>						
72	<p>Training shall be imparted to all the workers on safety and health aspects of chemicals handling.</p>	<p>Complied.</p> <p>Adequate Training has been given to all the workers on safety and health aspects of chemicals handling. Sample training record is attached as <a href="#">Annexure-23</a>.</p> <table border="1" data-bbox="803 1016 1562 1201"> <thead> <tr> <th colspan="2">Safety and Health aspects training to employees</th> </tr> <tr> <th>Duration</th> <th>No. of Employees Trained</th> </tr> </thead> <tbody> <tr> <td>October-23 to March-24</td> <td>61</td> </tr> </tbody> </table>	Safety and Health aspects training to employees		Duration	No. of Employees Trained	October-23 to March-24	61
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73	<p>Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act &amp; Rules.</p>	<p>Complied.</p> <p>The unit ensures occupational surveillance of the workers.</p> <p>Unit has done Pre-employment and periodical medical examination for all the workers as per the Factories Act &amp; Rules and records of the same are maintained.</p> <table border="1" data-bbox="808 1478 1481 1717"> <thead> <tr> <th></th> <th>Total Nos. of workers examined in the period October-23 to March-24</th> </tr> </thead> <tbody> <tr> <td>Company employees</td> <td></td> </tr> <tr> <td>Contract employees</td> <td>356</td> </tr> </tbody> </table>		Total Nos. of workers examined in the period October-23 to March-24	Company employees		Contract employees	356
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**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
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74	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act and Rules.	<p>Complied.</p> <p>Unit ensures that the Transportation of hazardous chemicals is done as per the provisions of the Motor Vehicle Act and Rules.</p>																		
75	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	<p>Complied.</p> <p>The unit has implemented all preventive and mitigation measures suggested in the Risk Assessment Report.</p>																		
76	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	<p>Complied.</p> <p>Unit has obtained necessary permissions from statutory authorities like PESO, Factory Inspectorate and other statutory bodies prior to commissioning of the project.</p> <p>PESO license is attached in <a href="#">Annexure-20</a>.</p> <table border="1"> <thead> <tr> <th>Classificati on as per Petroleum class</th> <th>Name of material</th> <th>Volume of Tank</th> <th>Consented Quantity</th> </tr> </thead> <tbody> <tr> <td rowspan="2">Class A</td> <td>Toluene</td> <td>30</td> <td rowspan="2">60 KL</td> </tr> <tr> <td>Methenolone</td> <td>30</td> </tr> <tr> <td>Class B</td> <td>Diesel</td> <td>44</td> <td>41 KL</td> </tr> <tr> <td><b>Total</b></td> <td></td> <td><b>104 KL</b></td> <td><b>101 KL</b></td> </tr> </tbody> </table>	Classificati on as per Petroleum class	Name of material	Volume of Tank	Consented Quantity	Class A	Toluene	30	60 KL	Methenolone	30	Class B	Diesel	44	41 KL	<b>Total</b>		<b>104 KL</b>	<b>101 KL</b>
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**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

**B.2.5 NOISE**

77

The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hood, silencers, enclosures etc on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.

Complied.

The Unit has taken necessary noise control measures by providing engineering controls like acoustic insulation hood, silencers, enclosures etc on all sources of noise generation. Noise monitoring reports are attached as [Annexure-25](#) .

**Unistar NABL Certification No.: TC-7753**


Months		Location				
		Nea DFG Plant	Near Utility Area	Nea ETP	Near Mat. Gate	Near DFG Melter
		<b>Day @ 75 dB (A)   Night @70 dB (A)</b>				
Oct-23	Day	67.3	61.4	52.5	58.5	73.2
	Night	60.5	51.3	48.4	49.3	62.2
Nov-23	Day	66.5	60.5	51.2	57.7	72.1
	Night	59.8	50.2	47.5	48.5	61.5
Dec-23	Day	67.2	61.4	52.6	56.5	71.6
	Night	58.6	52.3	48.1	49.2	63.4
Jan-24	Day	66.5	62.6	53.4	55.3	70.2
	Night	57.2	51.8	49.6	48.2	64.3
Feb-24	Day	Plant under Shutdown				
	Night					
Mar-24	Day					
	Night					

Note: N.D.- Not Detected, BDL - Below Detection Limit

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		<p>Noise Level Monitoring was not carried out for the month of Feb'24 &amp; Mar'24 due to the plant under shutdown condition throughout the month for preventive/ corrective maintenance jobs.</p> <p>Noise levels are within permissible limits.</p>
<p><b>B.2.6 CLEANER PRODUCTION AND WASTE MINIMISATION</b></p>		
<p>78</p>	<p>The unit shall undertake the Cleaner Production Assessment study through a reputed institute /organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.</p>	<p>Complied.</p> <p>Unit has taken various Cleaner production methodology likes,</p> <ol style="list-style-type: none"> <li>1. Reuse of STP treated water for gardening and to maintain greenbelt purposes.</li> <li>2. Reuse of RO permeate for Cooling tower to reduce freshwater consumption.</li> <li>3. Utilization of STP treated water in toilet flushing systems for domestic use.</li> <li>4. Utilization of STP treated water in cooling towers in rainy seasons.</li> <li>5. Using steam condensate recovery to reduce fresh water consumption in boilers.</li> <li>6. Using 98% solvent recovery methodology to reduce fresh solvent consumption in process.</li> <li>7. Treat RO reject in ETP in secondary treatment to reduce CO2 emissions and to reduce uses of natural resources like Electricity &amp; Fresh water.</li> </ol> <p>Unit will carry out a cleaner production assessment through a reputed institute.</p>
<p>79</p>	<p>The company shall undertake various waste minimization measures such as:          Metering and control of quantities of active ingredients to minimize waste.          Reuse of by-products from the process as raw materials or as raw materials substitutes.          Use of automated and close filling to minimize spillages.          Use of a close feed system into batch reactors.          Venting equipment through vapor recovery system.          Use of high pressure hoses for clearing to reduce wastewater generation.          Recycling of washes to subsequent batches.          Recycling of steam condensate.          Sweeping/ mopping the floor instead of floor washing to avoid effluent generation.          Regular preventive maintenance for avoiding leakages, spillages etc.</p>	<p>Complied.</p> <p>The Unit has implemented waste minimization measures as mentioned below but not limiting to:</p> <ul style="list-style-type: none"> <li>- Metering and control of quantities of active ingredients to minimize waste.</li> <li>- Unit does not generate by-products.</li> <li>- Unit has ensured use of automated and close filling to minimize spillages</li> <li>-use of a closed feed system into batch reactors is in place.</li> <li>- venting equipment through a vapor recovery system is there.</li> <li>- Use of high pressure hoses for clearing to reduce wastewater generation.</li> <li>- recycling of washes to subsequent batches</li> <li>- Recycling of steam condensate.</li> <li>- Sweeping/ mopping the floor instead of floor washing to avoid effluent generation.</li> <li>- regular preventive maintenance for avoiding leakages, spillages.</li> </ul>
<p><b>B.2.7 GREEN BELT AND OTHER PLANTATION</b></p>		

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

80	The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC/ GPCB and submit an action plan of plantation for next three years to the GPCB.	Complied.  Details of Developed Greenbelt is au under - <ul style="list-style-type: none"><li>● The unit has ensured to develop the green belt within premises as per the CPCB guidelines.</li><li>● Unit has developed 1304 Nos. trees within plant premises.</li><li>● To fulfill additional requirements for greenbelt, the unit has taken permission from SEZ authority opposite to M/s. Tatva Chintan to develop. The SEZ allotment Letter for Green Belt is attached as <a href="#">Annexure-10</a> .</li></ul>
81	Drip irrigation/ low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.	Complied.  Unit has provided a low-angle sprinkler system for the green belt development within the premises.  Photo of Drip Irrigation system is attached as below,  



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**B.3 OTHER CONDITION**

82 The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's office memorandum No: F.No.22-65/2017-IA.III Dt: 1/5/2018 to carry out the activities under CER in affected are around the project. The entire activities proposed under CER shall be monitored and a monitoring report shall be submitted to the regional office of MoEFCC as a part of half yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.


Complied.  
Attached as [Annexure-26](#).




**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
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83	Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.	<p>Complied.</p> <p>The unit has ensured to provide a Rain water Harvesting system, which is implemented.</p> <ul style="list-style-type: none"> <li>● <b>Way forward for implementation of Rainwater harvesting system:</b></li> </ul> <ol style="list-style-type: none"> <li>1. Rainwater harvesting is a mechanism involved in collecting, storing and using rainwater.</li> <li>2. A rainwater harvesting system comprises various stages – transporting rain water through pipes or drains, filtration, and storage in tanks for reuse or recharge. There are five components in a rainwater harvesting system namely catchment, conveyance, filtration, Storage and recharge.</li> </ol> <p>The unit has ensured rainwater harvesting tanks with a capacity of 200 KLD.</p>																								
84	The unit shall join and participate financially and technically for any common environmental facility/ infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt./GIDC.	<p>Complied.</p> <p>The unit has participated financially and technically for common environmental facilities/infrastructure as and when the same is taken up either by the Industrial Association or SEZ / GIDC or GPCB or any such authority created for this purpose by the Govt.</p>																								
85	Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.	<p>Complied.</p> <p>Unit has an implemented 20 KVA solar panel to utilize energy for illumination of common areas, lighting for gardens and street lighting.</p> <p>Please find the photo below of solar panel.</p> <table border="1" data-bbox="808 1255 1511 1787"> <thead> <tr> <th>Sr. No.</th> <th>Month</th> <th>Solar Power Generated</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>October-23</td> <td>2311 kVA</td> </tr> <tr> <td>2</td> <td>November-23</td> <td>1780 kVA</td> </tr> <tr> <td>3</td> <td>December-23</td> <td>1935 kVA</td> </tr> <tr> <td>4</td> <td>January-24</td> <td>2216 kVA</td> </tr> <tr> <td>5</td> <td>February-24</td> <td>2257 kVA</td> </tr> <tr> <td>6</td> <td>March-24</td> <td>2822 kVA</td> </tr> <tr> <td colspan="2"><b>Total Power Generation</b></td> <td><b>13,321 kVA</b></td> </tr> </tbody> </table>	Sr. No.	Month	Solar Power Generated	1	October-23	2311 kVA	2	November-23	1780 kVA	3	December-23	1935 kVA	4	January-24	2216 kVA	5	February-24	2257 kVA	6	March-24	2822 kVA	<b>Total Power Generation</b>		<b>13,321 kVA</b>
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**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

		 <p align="center"><b><u>Photo of Solar Panel Installed at site</u></b></p>
86	The area earmarked as green area shall be used only for plantation and shall not be alerted for any other purpose.	Complied. Unit has not constructed / used the green area for any other purposes.
87	All the commitments/ undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.	Complied. Unit is strictly adhering to the commitments/ undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management.
88	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.	Complied. We are ensuring to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
89	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	Complied. In the event of failure of any pollution control system, the unit is ensured to be safely closed down and not to be restarted until the desired efficiency of the control equipment has been achieved.
90	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	Complied. The unit has strictly adhered to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
91	During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or stormwater.	Complied. Unit has ensured no spillages during material transfer and garland drains have been constructed to avoid mixing of accidental spillages with domestic wastewater or stormwater.
92	Pucca flooring/ impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	Complied. Pucca flooring has been provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.

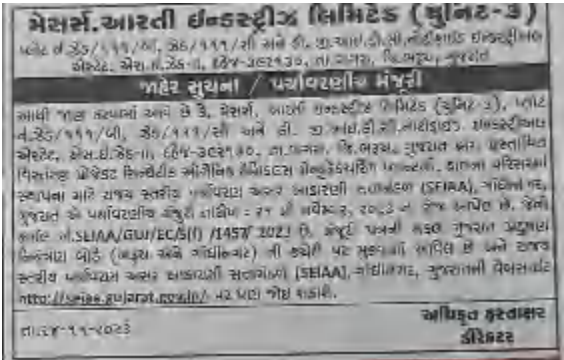
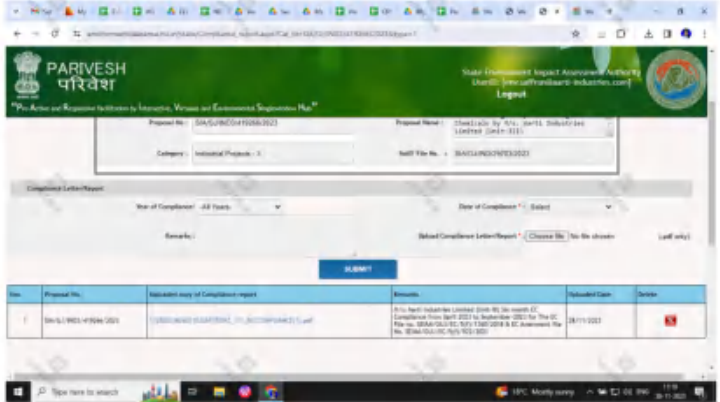
**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

93	Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly	<p>Complied.</p> <p>Unit has ensured no leakages from pipes, pumps and if occurs, is ensured to be arrested promptly. Also, the unit has ensured a closed loop transfer system for chemicals.</p>
94	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	<p>Complied.</p> <p>Unit has ensured to not take up any further expansion or modifications in the plant likely to cause environmental impacts without obtaining prior Environment Clearance from the concerned authority.</p> <p>EC expansions has been received on vide number SEIAA/GUJ/EC/5(f)/922/2021 dated 22.06.2021 attached in <a href="#">Annexure-27</a> &amp; vide number SEIAA/GUJ/EC/5(f)/1457/2023 dated 21.11.2023 attached in <a href="#">Annexure-28</a>.</p> <p>Six monthly EC compliance letters attached as <a href="#">Annexure-29</a> . The advertisement given in the Gujarati and English newspapers on Dated 27/06/2021 &amp; 23/06/2021 is shown as below:</p> 

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

<p>95</p>	<p>The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention &amp; Control of Pollution) Act, 1974, Air (Prevention &amp; Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.</p>	<p>Noted.</p>
<p>96</p>	<p>The project proponent shall comply with all the conditions mentioned in “The Companies (Corporate Social Responsibility Policy) Rules 2014” and its amendments from time to time in a letter and spirit.</p>	<p>Complied. The project proponent has complied with all the conditions mentioned in “The Companies (Corporate Social Responsibility Policy) Rules 2014” and its amendments from time to time. Attached in <a href="#">Annexure-26</a>.</p>
<p>97</p>	<p>The project management shall ensure that the unit complies with all the environmental protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.</p>	<p>Complied. Unit has complied with all the environmental protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report.</p>
<p>98</p>	<p>The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.</p>	<p>Complied. Adequate funds have been allotted for implementing the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. Total Invested Amount during the current monitoring period for these following implements-Rs. <b>38 lakhs</b>.</p> <ul style="list-style-type: none"> <li>External Environment Monitoring</li> </ul>

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.**

		<ul style="list-style-type: none"> <li>● Greenbelt development</li> <li>● Rain Water Harvesting system.</li> <li>● 20 KW Solar Panel</li> </ul>
99	<p>The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in Gujarati language and the other in English. A copy of each of the same shall be forwarded to the concerned Regional Office of the Ministry.</p>	<p>Complied.</p> <p>The advertisement regarding the environmental clearance was given in the local newspapers named Gujarat Samachar (in Gujarati) and Times of India (in English) dated 24th December, 2018, the copy of the same was submitted to the concerned regional office of GPCB.</p> <p>Attachment of advertisement as per below -</p> 
100	<p>It shall be mandatory for the project management to submit a half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned on 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year.</p>	<p>Complied.</p> <p>Last half yearly compliance report for the period of April-23 to September-23 submitted on date 30th November 2023. Screenshot of the upload on Parivesh Portal is attached.</p>  <p><b>*Hard Copy of EC Six Monthly Compliance has been sent to MS Gandhinagar. Received O/C Copy is attached as <a href="#">Annexure-34</a></b></p>
101	<p>Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action</p>	<p>Noted.</p>

**M/s. Aarti Industries Limited, (Unit-III) Plot no. Z/111/B, GIDC Estate, Dahej SEZ-II,  
Dist.Bharuch.**

	under the provisions of Environment (Protection) Act, 1986.	
102	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	<p>Complied.</p> <p>Unit has ensured to strictly adhere to the stipulations made by the Gujarat Pollution Control Board.</p> <p>Unit has obtained CC&amp;A, Consent No. AWH. 118267 granted on 01/07/2022.</p> <p>Unit has also obtained CC&amp;A Amendment Consent No. H-126209 granted on 20/11/2023 and valid up to 04/03/2025 and compliance to that has been attached as <a href="#">Annexure-36</a>.</p>
103	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted.
104	The company in a time bound manner shall implement these conditions. The SIEAA reserves the right to stipulate additional conditions, if the same is found necessary.	Noted.
105	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	<p>Complied.</p> <p>Unit has obtained CC&amp;A, Consent No. AWH. 118267 has been granted on 01/07/2022 and valid up to 04/03/2025.</p>
106	This environmental clearance is valid for seven years from the date of issue.	Noted.
107	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
108	Submission of any false or misleading information or data which is material to screening of scoping or appraisal or decision on the application makes this environment clearance canceled.	Noted.

The unit has obtained EC expansion vide number SEIAA/GUJ/EC/5(f)/922/2021 dated 22.06.2021 & SEIAA/GUJ/EC/5(f)/1457/2023 dated 20.11.2023.

Six monthly EC compliance letter along with applicable conditions attached as [Annexure-29](#), [Annexure-30](#), & [Annexure-31](#).

The same will be converted to CTE in the next phase of construction. Unit has applied for EC to CTE permission as attached [Annexure-37](#).





# GUJARAT POLLUTION CONTROL BOARD

Paryavaran Bhavan

Sector-10-A, Gandhinagar-382 010.

Phone : (079) 23226295

Fax : (079) 23232156

Website : www.gpcb.gov.in

By R.P.A.D.

**CONSOLIDATED CONSENT AND AUTHORIZATION(CC & A - Amendment)**

**CCA AMENDMENT NO: AWH-118267**

**NO: GPCB/BRCH-B/CCA- 265(2)/ID-62935/**

**DT: /07/2022**

To,  
M/s. Aarti Industries Ltd.(Unit-III),  
Plot No: Z/111/B,  
SEZ-II, Dahej,  
Tal: Vagra, Dist-Bharuch.

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

**REF:** (1) Your application No. 207786 dated 08/12/2021  
(2) CTE No. 97244 dated: 28/05/2018  
(3) CCA No. AWH - 108077 dated: 05/03/2020 CCA (Fresh)

Sir,

This has reference to the CCA order No: AWH-108077, issued vide letter no. GPCB/BRCH-B/CCA- 265/ID-62935 dated 12/10/2020 under the provisions of the various Environmental Act/ Rules, which stands amended as under.

**The Validity of this order will be up to 04/03/2025**

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

Sr. No.	Products	Quantity (MT/Month)		
		Existing	Proposed	Total
1	Di Methyl Phthalate	1000	--	1000
2	Aryl Dianhydride	--	1350	1350
3	Aryl phthalimide	--	920	920
4	Di Octyl phthalate	--	1000	1000
<b>TOTAL</b>		<b>1000</b>	<b>3270</b>	<b>4270</b>

2. **Specific conditions:**

- Unit shall not carry out any construction activities and production which attracts provisions of Environment Clearance without obtaining EC from competent authority under EIA notification dated 14/09/2006 and amended thereafter.
- Unit shall sell out their hazardous waste to authorized endusers who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized endusers and submit MoU.
- All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.
- Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of HRSG.



**3. CONDITION UNDER THE WATER ACT:**

3.1 The condition No. 3.1 for Water Consumption under Water Act of the CCA order No: AWH-108077, issued vide letter no. GPCB/BRCH-B/CCA-265/ID-62935 dated 12/10/2020 shall now be read as under.

- a. Domestic: 27 KL/Day (Existing 10 KLD + Proposed 17 KLD)
- b. Industrial: 732 KL/Day (Existing 255 KLD + Proposed 477 KLD (424 Fresh + 53 Reuse) [Total: 679 KLD fresh + fresh 33 KLD reuse]
- c. Gardening: 85 KL/Day (Existing 60 KLD + Proposed 25 KLD)

**Total: 844 KL/Day (Existing 325 KLD + Proposed 519 KLD (441 Fresh + 78 Reused))**

3.2 The condition No. 3.2 for Wastewater Generation under Water Act of the CCA order No: AWH-108077, issued vide letter no. GPCB/BRCH-B/CCA-265/ID-62935 dated 12/10/2020 shall now be read as under.

- a. Domestic: 25 KL/Day (Existing 9 KLD + Proposed 16 KLD)
  - b. Industrial: 105 KL/Day (Existing 48 KLD + Proposed 57 KLD)
- Total: 130 KL/Day (Existing 57 KLD + Proposed 73 KLD)**

**3.3 Mode of disposal of wastewater:**

- a) Existing 48 KLD treated industrial effluent shall be disposed to GIDC sewer line- Dahej Vilayat pipeline / common disposal system up to sea for final disposal at NIO designated point after meeting the standards prescribed in sr no . 3.4 .
- b) Proposed industrial waste water from boiler blow down ( 17KLD ) , cooling blow down 972 KLD and washing (10 KLD) total 99 KLPD will be sent to RC.RO permeate 53 KLD will be reused and 46 KLD RO reject with 59 KLD from process water due to reaction (Total 105 KLD) will be treated in ETP and discharged to GIDC drainage .
- c) 25 KLD domestic sewage shall be treated in STP and reused in gardening.

3.4 The quality of industrial effluent shall conform to the following standards (as per GPCB norms, whichever is applicable) (For discharge into GIDC effluent collection system Line- Dahej Vilayat Pipeline/ Common Disposal system upto the sea for final disposal at NIO designated point)

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	pH	6 to 9
2	Temperature	Shall not exceed more than 5 °C above receiving water temperature
3	Total Suspended Solids	100 mg/l
4	Oil and Grease	10 mg/l
5	Phenolic Compounds	5 mg/l
6	Cyanide (as CN)	0.2 mg/l
7	Fluorides (as F)	15 mg/l
8	Sulphides (as S)	5.0 mg/l
9	Total Residual Chlorine	1.0 mg/l
10	Ammonical Nitrogen (as N)	50 mg/l
11	Total Kjeldahl Nitrogen (TKN)	50 mg/l
12	Nitrate Nitrogen	50 mg/l
13	Biochemical Oxygen demand [3 day at 27°C]	100 mg/l



# GUJARAT POLLUTION CONTROL BOARD

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14	Chemical Oxygen Demand	250 mg/l
15	Arsenic (as AS)	0.2 mg/l
16	Mercury (as Hg)	0.01 mg/l
17	Lead (as Pb)	0.1 mg/l
18	Cadmium (as Cd)	0.05 mg/l
19	Trivalent Chromium	2.0 mg/l
20	Hexavalent Chromium (as Cr± 6)	0.1 mg/l
21	Copper (as Cu)	3.0 mg/l
22	Zinc (as Zn)	15 mg/l
23	Selenium (as Se)	0.05 mg/l
24	Nickel (as Ni)	3.0 mg/l
25	Manganese (as Mn)	2 mg/l
26	Iron (as Fe)	3 mg/l
27	Vanadium (as V)	0.2 mg/l
28	Bio assay test	90% survival of fish after 96 hours in 100% effluent

#### 4. CONDITIONS UNDER THE AIR ACT:

- 4.1 The condition No. 4.1 for Fuel Consumption under Air Act of the CCA order No: AWH-108077, issued vide letter no. GPCB/BRCH-B/CCA-265/ID-62935 dated 12/10/2020 shall now be read as under.

Sr. No.	Name of fuel	Quantity		
		Existing	Proposed	Total
1	Natural Gas	600 Nm <sup>3</sup> /Hr	300 Nm <sup>3</sup> /Hr	900 Nm <sup>3</sup> /Hr
2	Diesel	660 Nm <sup>3</sup> /Hr	--	660 Nm <sup>3</sup> /Hr

- 4.2 The condition No. 4.1.1 for Flue gas stacks under Air Act of the CCA order No: AWH-108077, issued vide letter no. GPCB/BRCH-B/CCA-265/ID-62935 dated 12/10/2020 shall now be read as under.

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
<b>Existing</b>					
1	Boiler (Capacity: 3 TPH)	30	--	PM SO <sub>2</sub> NO <sub>x</sub>	150 mg/NM <sup>3</sup> 100 ppm 50 ppm
2	D.G. Set-2 Nos. 1500 KVA of each	11	--	PM SO <sub>2</sub> NO <sub>x</sub>	150 mg/NM <sup>3</sup> 100 ppm 50 ppm
<b>Proposed</b>					
1	Thermo pack (22LacKcal/hr)	30	--	PM SO <sub>2</sub> NO <sub>x</sub>	150 mg/NM <sup>3</sup> 100 ppm 50 pm

**Clean Gujarat Green Gujarat**

- Steam shall be taken from sister concern unit Aarti Industries Limited (Unit-I) Dahej, SEZ-II [ID-41201] and condensate sent back to the same unit.

4.3 The condition No. 4.2 for Process gas stacks under Air Act of the CCA order No: AWH-108077, issued vide letter no. GPCB/BRCH-B/CCA-265/ID-62935 dated 12/10/2020 shall now be read as under.

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
<b>Existing</b>					
1	Vessels and vacuum Pumps	11	Water scrubber followed by carbon adsorption tower	VOC	--
<b>Proposed</b>					
1	Storage Tanks	11	Water scrubber followed by carbon adsorption tower	VOC	--

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

Sr. No.	Parameters	Permissible Limit (microgram /M <sup>3</sup> )	
		Annual	24 Hours Average
1.	Particulate Matter (PM <sub>10</sub> )	60	100
2.	Particulate Matter (PM <sub>2.5</sub> )	40	60
3.	Oxides of Sulphur (SO <sub>x</sub> )	50	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	40	80

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

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

## 5 CONDITIONS UNDER HAZARDOUS & OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016

5.1 Unit shall comply with provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules-2016.

5.2 The condition No. 6.2 under authorization for Hazardous & other wastes of the CCA order No: AWH-108077, issued vide letter no. GPCB/BRCH-E/CCA-265/ID-62935 dated 12/10/2020 shall now be read as under.



# GUJARAT POLLUTION CONTROL BOARD

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Sr. No.	Name of Haz. Waste	Category Number	Quantity in MT/Year			Facility
			Exi.	Pro.	Total	
1	ETP Waste	35.3	1680	-1400	280	Collection, Storage, Transportation, disposal to TSDF/Coprocessing
2	Discarded containers/bags	33.1	20	0	20	Collection, Storage, Decontamination, Disposal by sold to selling to re-processor/ Contaminated/containers/bags to authorized recyclers/ Co-processing unit
3	Used oil	5.1	2.4	0	2.4	Collection, Storage, Transportation, Disposal by selling to registered re-processors/recyclers.
4	Spent Carbon	28.3	12	0	12	Collection, Storage, transportation send to common re-processing facility /common co processing facility/CHWIF
5	Residue	26.1	12	0	12	Collection, Storage, transportation, disposal at CHWIF.
6	Insulation Waste	—	20	0	20	Collection, Storage, Transportation disposal by at TSDF
7	Off-specification product	26.1	24	0	24	Collection, Storage, Transportation disposal to co processing/pre-processing/CHWIF
8	Non recyclable Plastic waste/PPE waste/bags/Cotton/Paper waste	33.1	50	0	50	Collection, Storage, Transportation disposal by at TSDF Sites/Pre/ Co-processing
9	Batteries Waste		50 Nos.	0	50 Nos.	Collection, Storage, Transportation,

					Disposal by selling to authorized recyclers or buyback
<b>Non Hazardous</b>					
1	Glass Waste (Z 13)	2 MT/Year	-	2 MT/Year	--
2	Wooden Waste	2 MT/Year	—	2 MT/Year	Authorized recycler
3	E-waste & Electrical waste	1 MT/Year	—	1 MT/Year	Authorized E-Waste handlers
4	Paper Waste (Z 44)	—	1 MT/Year	1 MT/Year	Landfill site
5	Cotton Waste	—	1 MT/Year	1 MT/Year	Incineration Facility
6	Bio-Medical Waste	—	0.5 MT/Year	0.5 MT/Year	Will be disposed off as per Bio Medical Waste Rules

6 All other conditions of the CCA order No: AWH-108077, issued vide letter no. GPCB/BRCH-B/CCA-265/ID-62935 dated 12/10/2020 will remain same.

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD

*9/10*  
(IRFAN KAGZI)  
ENVIRONMENT ENGINEER

Outward No:676744,01/07/2022



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

By R.P.A.D.

## Consent to Establish (CTE) - Amendment

CTE AMENDMENT NO: CTE - 124234

NO: GPCB/BRCII-B/CCA-265(2)/ID-62935/

DT: /04/2023

To,  
M/s. Aarti Industries Ltd (Unit-III),  
Plot No. Z/111/B, Z/111/C & D,  
Dahej, SEZ-II,  
Ta. Vagra, Dist. Bharuch.

**SUB:** Amendment in Consent to Establish (CTE) under Section 25 of Water Act 1974 and Section 21 of Air Act 1981.

**REF:** (1) Your CTE application No. 262472 dated 14/09/2022 (for CTE - Proposed changes).

(2) ToR to CTE dated: 07/11/2020.

(3) CTE Fresh no. 97244 dated 29/01/2019.

Without prejudice to the powers of this Board under the Water (Prevention and Control of Pollution) Act-1974, the Air (Prevention and Control of Pollution) Act-1981 and the Environment (Protection) Act-1986 and without reducing your responsibilities under the said Acts in any way, this is to inform you that this Board grants **Consent to Establish (CTE)** for **Proposed changes** in an industrial plant/activities at **Plot No. Z/111/B, Z/111/C & D, Dahej, SEZ-II, Ta. Vagra, Dist. Bharuch** to manufacture the products.

The Validity of this order will be up to **13/09/2029**.

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

Sr. No.	Products	Quantity (MT/Year)		
		Existing	Proposed	Total (After Expansion)
1	Di Methyl Phthalate	12000	0	12000
2	Aryl Dianhydride	16200	0	16200
3	Aryl phthalimide	11040	0	11040
4	Di Octyl phthalate	12000	0	12000
5	Aryl Bisimide	17160	0	17160
6	Calcium Chloride (CaCl <sub>2</sub> ) (Solid)	0	36,000	36,000

**2. SPECIFIC CONDITIONS:**

- Unit shall strictly follow all conditions of EC dated 22/06/2021.
- Unit shall not procure any hazardous waste without obtaining Rule-9 permission under HOWR-2016 and CTE/CCA Amendment of the Board.
- All products shall be in solid form and no liquid shall be sent for phase conversion.
- Unit shall sell out their hazardous waste to authorized endusers who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized endusers and submit MoU.
- All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.
- Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.

- g) Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.
- h) Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.
- i) Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.
- j) Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.

**3. CONDITION UNDER THE WATER ACT:**

3.1 The condition no. 3.1 for Water Consumption under the Water Act of CTE order No: 97244, issued vide letter no. GPCB/BRCH-B/CTE-502/ID-62935/492668, dated 29/01/2019 and further amended dated 07/11/2020 is amended and shall now be read as under:

Water (Qty: KLD)	Water consumption		
	Existing	Proposed	Total
Domestic	27	20	47
Industrial	3426	116	3542
Gardening	85	20	105
<b>Total</b>	<b>3538</b>	<b>156</b>	<b>3694</b>

3.2 The condition no. 3.2 for wastewater Generation under the Water Act of CTE order No: 97244, issued vide letter no. GPCB/BRCH-B/CTE-502/ID-62935/492668, dated 29/01/2019 and further amended dated 07/11/2020 is amended and shall now be read as under:

Water (Qty: KLD)	Wastewater Generation		
	Existing	Proposed	Total
Domestic	25	20	45
Industrial	691.7	10	701.7
<b>Total</b>	<b>716.7</b>	<b>30</b>	<b>746.7</b>

3.3 The condition no. 3.3, 3.4, 3.5, 3.6 & 3.9 for Mode of disposal under the Water Act of CTE order No: 97244, issued vide letter no. GPCB/BRCH-B/CTE-502/ID-62935/492668, dated 29/01/2019 and further amended dated 07/11/2020 is amended and shall now be read as under:

- a) Total 622.7 KLD generated low COD and TDS effluent from utility (DM reject & Boiler blowdown @93 KLD, Softener reject & cooling blowdown (519.7 KLD) and washing (10 KLD). 12.7 KLD from cooling tower blowdown shall be directly reused in scrubber remaining 610 KLD shall be treated in two stage RO plant. 452 KLD, RO permeate shall be reused back in process.
- b) Total RO reject shall be 158 KLD, in which 134 KLD RO reject shall be treated in low COD stream ETP and 24 KLD, RO reject shall be evaporated in in-house MEE cum ATFD, 22 KLD MEE condensate shall be reused back in process. 2 KLD MEE salt shall be sent to the TSDP site.
- c) 79 KLD, Low COD stream from process (69 KLD) and washing (10 KLD) and 134 KLD RO reject shall be treated in ETP consist of Primary, secondary and tertiary ETP Unit and treated effluent (213 KLD) shall be discharge to GHDC underground pipeline leading to sea after conforming norms prescribed in condition no. 3.8 of CTE no. 97244.

Outward No. 3637/2020





# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

- d) 45 KLD domestic wastewater shall be treated in STP and treated domestic wastewater shall be used on land for gardening/plantation within the premises after conforming following discharge norms:

Parameters	Norms
pH	6.5 to 8.5
TSS	< 100 mg/l
Fecal Coliform (MPN/100ml)	< 1000 MPN/100ml
BOD (3 days 27 degree C)	< 30 mg/l

#### 4. CONDITIONS UNDER THE AIR ACT:

- 4.1 The condition no. 4.1 for Fuel consumption under the Air Act of CTE order No: 97244, issued vide letter no. GPCB/BRCH-B/CTE-502/ID-62935/492668, dated 29/01/2019 and further amended dated 07/11/2020 is amended and shall now be read as under:

Sr. No.	Name of fuel	Quantity		Total
		Existing	Proposed	
1	Natural Gas For Boiler	3100 Nm <sup>3</sup> /Hr.	0	3100 Nm <sup>3</sup> /Hr.
2	Natural Gas for Thermopack	635 Nm <sup>3</sup> /Hr.	0	635 Nm <sup>3</sup> /Hr.
3	Natural Gas for Dryer	100 Nm <sup>3</sup> /hr	0	100 Nm <sup>3</sup> /hr
4	Diesel	2160 Lit./hr	300 Lit./Hr	2460 Lit./hr
5	Coal for HAG	0	48 MT/Day	48 MT/Day

- 4.2 The condition no. 4.2 for Flue gas stacks under Air Act of CTE order No: 97244, issued vide letter no. GPCB/BRCH-B/CTE-502/ID-62935/492668, dated 29/01/2019 and further amended dated 07/11/2020 is amended and shall now be read as under:

Stack No.	Stack attached to	Stack Height	Air Pollution Control Measure	Parameter	Permissible limit
Existing as per ToR to CTE dated 07/11/2020					
Proposed					
1	Hot Air Generator (Cap: 80 lakh kcal/hr)	30 m	ESP+ Automatic lime dosing (Dry Scrubber) system	PM SO <sub>2</sub> NO <sub>x</sub>	150 mg/Nm <sup>3</sup> 100 ppm 50 ppm
2	D.G. Set (Cap: 1500 KVA)	30 m	--		

- 4.3 The condition No. 4.3 for Process gas stacks under Air Act of previous CTE order No: 97244, issued vide letter no. GPCB/BRCH-B/CTE-502/ID-62935/492668, dated 29/01/2019 and further amended dated 07/11/2020 is amended and shall now be read as under:

Stack No.	Stack attached to	Stack Height	Air Pollution Control Measure	Parameter	Permissible limit
<b>Existing as per ToR to CTE dated 07/11/2020</b>					
<b>Proposed</b>					
1	CaCl <sub>2</sub> Dryer vent	20 m	Two stage wet scrubber (Venturi Scrubber)	PM	150 mg/Nm <sup>3</sup>
2	CaCl <sub>2</sub> reactor	25 m	Two stage Water Scrubber	HCl	20 mg/Nm <sup>3</sup>

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

Sr. No.	Parameters	Permissible Limit (microgram /m <sup>3</sup> )	
		Annual	24 Hours Average
1.	Particulate Matter (PM <sub>10</sub> )	60	100
2.	Particulate Matter (PM <sub>2.5</sub> )	40	60
3.	Oxides of Sulphur (SO <sub>x</sub> )	50	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	40	80

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

4.5 Stack monitoring facilities like porthole, platform/ ladder etc., shall be provided with stacks/vents chimney in order to facilitate sampling of gases being emitted into the atmosphere.

4.6 All measures for the control of environmental pollution shall be provided before commencing production.

**5. CONDITIONS UNDER HAZARDOUS & OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016:**

5.1 Unit shall comply with provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules-2016.

5.2 Unit shall obtain authorization under Hazardous & Other Wastes (Management & Transboundary Movement) Rules-2016 for increase/ decrease in Hazardous & other waste quantity / category.

6. All other Conditions of previous CTE order No: 97244, issued vide letter no. GPCB/BRCH-B/CTE-502/ID-62935/492668, dated 29/01/2019 and further amended dated 07/11/2020 shall remain unchanged.

FOR AND ON BEHALF OF  
GUJARAT POLLUTION CONTROL BOARD

(IRFAN KAGZI)  
ENVIRONMENT ENGINEER

Outward No: 738397, 05/04/2020

GAS DETECTOR LIST									
Sr No	Tag No.	Detail	Service	Range	Make	Model No	Sr. No	Alarm Setting high (A1)	Alarm Setting high (A2)
Sr No	Tag No.	Detail	Service	Range	Make	Model No	Sr. No	Alarm Setting high (A1)	Alarm Setting high (A2)
1	1-GD-TEA-1	DFG G FLOOR NEAR 1P0145A/B	TEA - Toxic	0 to 50 PPM	TRITECH	2X	D6045101	5 PPM	10 ppm
2	1-GD-TEA-2	DFG G FLOOR UNDER 1ST0101	TEA - Toxic	0 to 50 PPM	TRITECH	2X	D6045105	5 PPM	10 ppm
3	1-GD-TEA-3	DFG G FLOOR UNDER 1R0102	TEA - Toxic	0 to 50 PPM	TRITECH	2X	D6045106	5 PPM	10 ppm
4	1-GD-TEA-5	DFG G FLOOR OUT NEAR 1SU0790	TEA - Toxic	0 to 50 PPM	TRITECH	2X	D6045102	5 PPM	10 ppm
5	1-GD-TEA-6	DFG 1ST FLOOR NEAR 1ST0101	TEA - Toxic	0 to 50 PPM	TRITECH	2X	D6045108	5 PPM	10 ppm
6	1-GD-TEA-7	DFG 1ST FLOOR NEAR 1R0102	TEA - Toxic	0 to 50 PPM	TRITECH	2X	D6045104	5 PPM	10 ppm
7	1-GD-TEA-8	DFG 2ND FLOOR NEAR 1V0140	TEA - Toxic	0 to 50 PPM	TRITECH	2X	D6045103	5 PPM	10 ppm
8	1-GD-TEA-9	DFG G FLOOR NEAR 1ST0102	TEA - Toxic	0 to 50 PPM	TRITECH	2X	D6045107	5 PPM	10 ppm
9	1-GD-TEA-10	DFG 3ED FLOOR NEAR 1PK0130	TEA - Toxic	0 to 50 PPM	TRITECH	2X	D6045109	5 PPM	10 ppm
10	1-AI-0101	DFG 2ND FLOOR ON 1R0103	TEA - Toxic	0 to 50 PPM	TRITECH	2X	D5889	5 PPM	10 ppm
11	1-GD-TOLUENE-1	DFG G FLOOR NEAR 1P0171A/B	TOLUENE - FI	0 to 100% LEL	TRITECH	FL-TX	D6046101	10 % LEL	20 % LEL
12	1-GD-TOLUENE-2	DFG G FLOOR UNDER 1E0160	TOLUENE - FI	0 to 100% LEL	TRITECH	FL-TX	D6046105	10 % LEL	20 % LEL
13	1-GD-TOLUENE-3	DFG G FLOOR UNDER 1V0155	TOLUENE - FI	0 to 100% LEL	TRITECH	FL-TX	D6046106	10 % LEL	20 % LEL
14	1-GD-TOLUENE-4	PESO AREA	TOLUENE - FI	0 to 100% LEL	TRITECH	FL-TX	D6046103	10 % LEL	20 % LEL
15	1-GD-TOLUENE-5	PESO AREA	TOLUENE - FI	0 to 100% LEL	TRITECH	FL-TX	D6046104	10 % LEL	20 % LEL
16	1-GD-TOLUENE-6	DFG 1ST FLOOR NEAR 1V0170	TOLUENE - FI	0 to 100% LEL	TRITECH	FL-TX	D6046109	10 % LEL	20 % LEL
17	1-GD-TOLUENE-7	DFG 1ST FLOOR NEAR 1V0146	TOLUENE - FI	0 to 100% LEL	TRITECH	FL-TX	D6046102	10 % LEL	20 % LEL
18	1-GD-TOLUENE-8	DFG 2ND FLOOR NEAR 1C0170	TOLUENE - FI	0 to 100% LEL	TRITECH	FL-TX	D6046105	10 % LEL	20 % LEL
19	1-GD-TOLUENE-9	DFG 2ND FLOOR NEAR 1E0146	TOLUENE - FI	0 to 100% LEL	TRITECH	FL-TX	D6046107	10 % LEL	20 % LEL
20	1-GD-TOLUENE-10	DFG 3ED FLOOR NEAR 1PK0170	TOLUENE - FI	0 to 100% LEL	TRITECH	FL-TX	D6046110	10 % LEL	20 % LEL
21	1-GD-METH-01	PESO AREA	METHANOL -	0 to 100% LEL	HONEYWELL	SPXCDALMTXF	K025362003210		
22	1-GD-METH-02	DMP 1ST FLOOR	METHANOL -	0 to 100% LEL	HONEYWELL	SPXCDALMTXF	K0253619352049		
23	1-GD-METH-03	DMP TOP FLOOR	METHANOL -	0 to 100% LEL	HONEYWELL	SPXCDALMTXF	ON HEIGHT		
24	1-GD-METH-04	DMP TANKFARM	METHANOL -	0 to 100% LEL	HONEYWELL	SPXCDALMTXF	K0253619361277		
25	1-GD-NG-01	NG STATION	NG - FLAMAB	0 to 100% LEL	TRITECH	2XSERIES	2918/E/21		
26	1-GD-NG-02	HOT OIL AREA	NG - FLAMAB	0 to 100% LEL	TRITECH	2XSERIES	7866/C/21		
27	1-GD-NG-03	DMP BOILER	Z	0 to 100% LEL	HONEYWELL	SPXCDALMTXF	K0253619341143		
28	1-GD-O2-01	BRM Wearhouse PTS	Oxygen Gas D	0.0 – 30.0 % Vol.	TRITECH	OX-XT	01030D7411/01		
29	1-GD-O2-02	PRM Wearhouse PTS	Oxygen Gas D	0.0 – 30.0 % Vol.	TRITECH	OX-XT	01030D7411/02		
30	AT-251(W/H)	BRM Wearhouse PTS	Oxygen Gas D	0.0 – 30.0 % Vol.	TRITECH	OX-XT	01030D7337/05		
31	AT-250 (W/H)	PRM Wearhouse PTS	Oxygen Gas D	0.0 – 30.0 % Vol.	TRITECH	OX-XT			

# 5.0 SOIL ANALYSIS REPORT



**Period: November - 2023**

**FOR**

**M/s. Aarti Industries Limited. (Unit – 3)**

**(Saffron SEZ Unit)**

**At**

**Plot No. Z/103/H, Dahej SEZ Part-II,**

**Tal. Vagara, Dist. Bharuch,**

**Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House,  
Near G.I.D.C. Office, Char Rasta,  
Vapi-396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

MoEF&CC (GOI) Recognized Environmental  
Laboratory under the EPA-1986 (12.01.2020 to 17.03.2023)

QCNABET Accredited EIA  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001:2015  
Certified Company

ISO 45001:2018  
Certified Company

TEST REPORT

ULR No.	--	Report No.	URC /23/11/L-0650
Name & Address of Customer	M/s. AARTI INDUSTRIES LTD. (UNIT-III SAFFRON) PLOT NO. Z-111/B, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date of Report	28/11/2023
		Customer's Ref.	---
Sample Details	Soil Sample	Location	Near DFG Plant
Sample Qty.	1 kg.	Appearance	Brown Colour
Sampling Date	21/11/2023	Sample Received Date	22/11/2023
Test Started Date	22/11/2023	Test Completion Date	25/11/2023
Sampled By	UERL Team.	Sampling Method	--
UERL Lab ID. No.	23/11/L-0650		

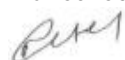
TEST RESULTS:

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	IS: 2720 (Part 26):1987	--	8.81
2.	Moisture Content	Lab SOP No. UERL/CHM/LTM/86	%	9.79
3.	Electrical Conductivity	IS: 14767 :2000	µs/cm	72.2
4.	Potassium	Lab SOP No. UERL/CHM/LTM/84	mg/kg	15.6
5.	Sodium	Lab SOP No. UERL/CHM/LTM/89	mg/kg	172.1
6.	Total Kjeldahl Nitrogen as N	IS: 14684 :1999	mg/kg	82.4
7.	Cation Exchange Capacity	Lab SOP No. UERL/CHM/LTM/79	meq/100g	27.1
8.	Water Holding Capacity	Lab SOP No. UERL/CHM/SOP/150	ml/100 gm	45
9.	Texture Class	Lab SOP No. UERL/CHM/LTM/108	--	Clay Loam
10.	Available Phosphorus	Lab SOP No. UERL/CHM/SOP/151	mg/kg	294.1
11.	Chloride	Lab SOP No. UERL/CHM/LTM/90	mg/kg	77.1
12.	Sulphate	Lab SOP No. UERL/CHM/SOP/152	mg/kg	52.6
13.	Sodium Absorption Ratio (SAR)	Lab SOP No. ERL/CHM/LTM/85	--	2.0
14.	Available Nitrogen	Lab SOP No. UERL/CHM/LTM/80	mg/kg	44.3
15.	Chemical Oxygen Demand (COD)	Open Reflex Method	mg/kg	8001.7
16.	Colour	--	--	Brown

Note: --

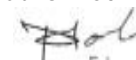
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



Nilesh C. Patel  
(Sr. Chemist)

Authorized By:



Nitin B. Tandel  
(Technical Manager)

TEST REPORT

ULR No.	--	Report No.	URC /23/11/L-0651
Name & Address of Customer	M/s. AARTI INDUSTRIES LTD. (UNIT-III SAFFRON) PLOT NO. Z-111/B, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date of Report	28/11/2023
		Customer's Ref.	---
Sample Details	Soil Sample	Location	Near Saffron Phase III
Sample Qty.	1 kg.	Appearance	Brown Colour
Sampling Date	21/11/2023	Sample Received Date	22/11/2023
Test Started Date	22/11/2023	Test Completion Date	25/11/2023
Sampled By	UERL Team.	Sampling Method	--
UERL Lab ID. No.	23/11/L-0651		

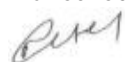
TEST RESULTS:

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	IS: 2720 (Part 26):1987	--	9.97
2.	Moisture Content	Lab SOP No. UERL/CHM/LTM/86	%	BDL(MDL:2.0)
3.	Electrical Conductivity	IS: 14767 :2000	µs/cm	673
4.	Potassium	Lab SOP No. UERL/CHM/LTM/84	mg/kg	110.2
5.	Sodium	Lab SOP No. UERL/CHM/LTM/89	mg/kg	3007.1
6.	Total Kjeldahl Nitrogen as N	IS: 14684 :1999	mg/kg	98.6
7.	Cation Exchange Capacity	Lab SOP No. UERL/CHM/LTM/79	meq/100g	27.5
8.	Water Holding Capacity	Lab SOP No. UERL/CHM/SOP/150	ml/100 gm	48
9.	Texture Class	Lab SOP No. UERL/CHM/LTM/108	--	Clay Loam
10.	Available Phosphorus	Lab SOP No. UERL/CHM/SOP/151	mg/kg	325.5
11.	Chloride	Lab SOP No. UERL/CHM/LTM/90	mg/kg	2502.3
12.	Sulphate	Lab SOP No. UERL/CHM/SOP/152	mg/kg	63.1
13.	Sodium Absorption Ratio (SAR)	Lab SOP No. ERL/CHM/LTM/85	--	38.1
14.	Available Nitrogen	Lab SOP No. UERL/CHM/LTM/80	mg/kg	51.7
15.	Chemical Oxygen Demand (COD)	Open Reflex Method	mg/kg	2973.7
16.	Colour	--	--	Brown

Note: BDL= Below Detection Limit, MDL = Minimum Detection Limit.

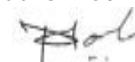
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



Nilesh C. Patel  
(Sr. Chemist)

Authorized By:



Nitin B. Tandel  
(Technical Manager)





**GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION**

**(A Govt. of Gujarat Undertaking)**

**Office of the Dy.Executive Engineer**

1<sup>st</sup> Floor, Narmada Commercial Complex,

M.G. Road, PanchBatti, Bharuch-392001

Phone: (02642)242432/242442 FAX :( 02642)241902

GIDC/DEE(WS)/BRH/120

Date:- 12/2/2020

**To,**  
**M/s. Sachin Water Supply Co. Pvt. Ltd.,**  
Site Office,  
GIDC, Dahej

**Sub:** Water Supply connection for M/s. Aarti Industries Ltd., Plot No. Z-111/B at Dahej SEZ-II Industrial Estate.

**Ref:** 1. The allottee application dtd:- 19/06/2019  
2. The site investigation dated:- 11/02/2020

Dear Sir,

With reference to the above, it is to state that this office has issued the water connection release order against the letter under reference.

In continuation this is to confirm that the party's connection is enhanced from 100.00 KLPD to 877.00 KLPD and GPCB clearance is for 975.00 KLPD. The water is to be drawn from the distribution network at Dahej SEZ-II and the connection size is 80 mm diameter. It is to note that before release of new connection, old connection of 40 mm dia is to be disconnected. The plot size according to the Possession receipt is 53,495.24 Sq. mtr.(T)

This is for your information please.

Yours faithfully,

**Dy. Ex. Engineer (ws),**  
**GIDC, Bharuch**

**C.s.w.r. to:**

- 1. The Executive Engineer (W/D), GIDC, Bharuch...** for information please.
- 2. The Executive Engineer (M&E), GIDC, Bharuch...** for information please.

**Copy to:**

- 1. M/s. Aarti Industries Ltd.,** For information.  
Plot No. Z-111/B  
Dahej SEZ-II industrial estate.
- 2. The Devinfo tech Ltd, Bharuch...** For information & necessary actions.





GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION  
(A GOVT. OF GUJARAT UNDERTAKING)  
Office of the Dy. Executive Engineer (DRG)  
1st FLOOR ,NARMADA COMM. COMPLEX,  
STATION ROAD, PANCHBATTI,  
BHARUCH -392001PH :242432/244184 FAX:(02642)241902  
Mail ID: gidcbharuch@rediffmail.com

NO: GIDC/BRH/DEE (DRG)/ 769

Date: 16/10/2018

To,  
M/s Aarti Industries Limited,  
Plot No .Z/111/B,  
SEZ-II, Dahej,  
Dist- Bharuch

**Sub : Assurance letter to discharge of 125.00 klpd of industrial effluent by M/s Aarti Industries Limited, Plot no. Z/111/B.**

Ref: - Your Letter Dated. 16/10/2018

Dear Sir,

Vide letter under reference, you have demanded a confirmation letter to discharge of 125.00 Klpd of industrial effluent.

Till date, you have not taken drainage connection.

In this regard, this office assures that 125.00 Klpd of industrial effluent can be discharged by M/s Aarti Industries Limited Plot no. Z/111/B, subject to the following conditions:

1. Availability of infrastructure.
2. Availability of spare quantity in design capacity of sewer line.
3. The allottee pays the contribution and other applicable charge for the said quantity industrial effluent.
4. The allottee has to make their own provision to discharge industrial effluent in to GIDC's sewer line or in to collection well if the quantity demanded is more than the entitled quantity.
5. The effluent discharge connection would only be released after the approvals from the competent authority are taken for upward revision of effluent discharge from the quantity mentioned in the agreement.
6. The effluent discharge connection shall only be released after the submission of GPCB consent as per the approved the quantity.

This is for your Information Please.

*[Handwritten Signature]*  
16/10/18

Dy. Executive Engineer (DRG),  
GIDC Bharuch.

## Annexure-4

### DETAIL OF EFFLUENT TREATMENT PLANT (125 KLD):-

We have installed an ETP consisting of primary, secondary & tertiary treatment. Treated water is being discharged to the GIDC drainage line.

#### **1. PRE & PRIMARY TREATMENT**

**Screening:** This is the first unit of the plant in which large or floating materials in the effluent gets arrested and blockage or choking of the downstream equipment can be avoided. This arrested material removed manually and then will be disposed off suitably.

**Oil & Grease trap:** effluent contains oil & grease. This oil & grease if not removed then creates the problem of scum accumulation and affects the functioning of microbes in aeration tank. To avoid this, oil & Grease chamber is provided after the bar screen, where oil & grease is arrested prior to entry in the plant. Accumulated oil removed and disposed of properly.

**Equalization :** To absorb variation in quantity and quality of effluent and to provide uniform flow at the downstream treatment process, a collection or equalization tank is provided. This will avoid shock loading and process upsets of the treatment plant. **Neutralization:** Neutralization system is provided to neutralize the effluent using lime slurry.

**Flash Mixer, Flocculator & Tube settler** - Installed as part of primary treatment to remove suspended solid.

**De watering system (Filter Press)** - Bottom of primary & secondary tube settler is passed through filter press. The generated sludge disposed of at the TSDF site.

#### **2. SECONDARY TREATMENT**

ASP – ACTIVATED SLUDGE PROCESS (AERATION) :

This is the main section of the plant where degradation of organic pollutants with the help of aerobic microorganism takes place. In aeration tank activated biomass is developed in such a way that certain MLSS is maintained for continuous effluent flow which comes to the aeration basin. Effluent is degraded in given retention time and activated sludge is further passed to tube settler and recycled as per requirement. The sludge, which is not required after recirculation, is sent to the filter press. The air supply arrangement is provided for maintaining proper DO

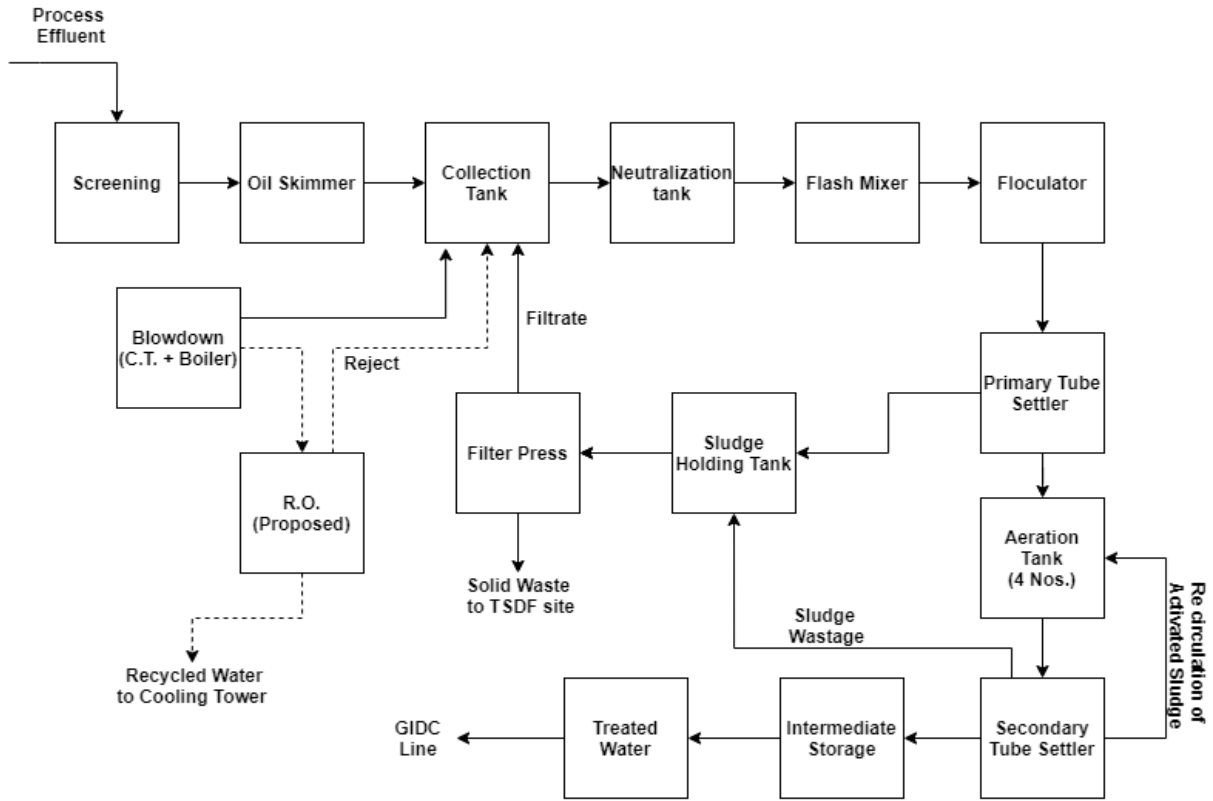
#### **3. TERTIARY TREATMENT**

Secondary treated water passed through the sand media filter followed by an activated carbon filter. Filtered water will be collected in the treated water tank from where it will be sent to the GIDC drainage line for disposal.

### **EQUIPMENT LIST OF PROPOSED EFFLUENT TREATMENT PLANT WITH DIMENSION (Cap:-125 KLD)**

Sr no	Name of equipment	Capacity, KL	MOC	Quantity
1	Screen Chamber	1.76	RCC	
2	Oil & Grease trap	2.91	RCC	1
3	Collection Tank	136	PP-FRP	1
4	Neutralization Tank	3	MS-FRP	1
5	Flash Mixer Tank	1.5	MS-FRP	1
6	Flocculator Tank	3	MS-FRP	1
7	Primary Tube Settler	24	MS-FRP	1
8	Aeration Tank	66.47	MS-FRP	4
9	Sludge Holding Tank	14.73	MS-FRP	1
10	Secondary Tube Settler	24	MS-FRP	1
11	Intermediate Storage Tank	10.8	MS-FRP	1
12	Treated Water Tank	10.8	MS-FRP	1

# FLOW DIAGRAM OF ETP







# DAHEJ SEZ LIMITED

(A Joint Venture of GIDC & ONGC)

Office of Dahej SEZ Limited, Dahej SEZ Part-1,

At & Post - Dahej, Ta -Vagra, Dist - Bharuch (Gujarat)

Tele Number : 02641 - 256462, TeleFax No. : 02641 - 256466

Website : www.dahejsez.com, CIN - U45209GJ2004PLC044779

No.: DSL/DHJ/Aarti Ind. Ltd./2020/0321

Date: 25<sup>th</sup> Sep, 2020

To,

✓ Aarti Industries Ltd.

Plot No. Z/103/H,

Dahej SEZ Part-2.

Sub: Approval for development of green belt opposite to M/s. Tatva Chintan Pharmachem Pvt. Ltd. at Dahej SEZ Part - 2

Ref.: Your e-mail dated 25.09.2020

Dear Sir,

With reference to above & your e-mail dated 21.05.2020 regarding above subject matter, please refer our approval on e-mail dated 22.05.2020. It is requested to start the development of green belt in consultation with our Horticulture Supervisor, Mr. Ankit - Mo.: 9925898471 & Site Engineer, Mr. A. B. Padhiyar - Mo.: 9879550485.

DSL will provide all support to M/s. Aarti Ind. Ltd. for development of green belt in Dahej SEZ Area.

Thanking you,

Yours faithfully,

Manager (Infra.)  
Dahej SEZ Limited.

Copy to:

1. Horticulture Supervisor, DSL, Dahej
2. Site Engineer, DSL, Dahej



SEZ PART - II



Approx. Area for  
Green Belt development  
L B Area  
 $350 \text{ mt} \times 40 \text{ mt} = 14000 \text{ Sq.mt}$

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

LEGEND		NOTE:
	SEZ BOUNDARY	1. ALL DIMENSIONS ARE IN METER.
	ROAD	2. ANY DISCREPANCY IN THE DRG. OR PLAN MUST BE NOTIFIED TO C.E.O.
	PLOT BOUNDARY	3. NO PART OF THIS PLAN SHOULD BE CHANGED WITHOUT CONSENT OF THE C.E.O.
	UTILITY CORRIDOR	4. THE ROAD WIDTH REFER TO THE ROAD RIGHT OF WAY.
	GIDC ROAD (OUT SIDE SEZ)	5. THE MAP WAS COMPUTERIZED BY S.K. PARMAR ON AUTOCAD IN GIDC Dt. 16/03/1994
	NON PROCESSING AREA	6. THE DEVELOPMENT PLAN WAS MODIFIED IN GIDC Dt. 08/07/2008
	PLOT NUMBER	7. DEVELOPMENT PLAN OF DANESJ SEZ IS MODIFIED BY P&E. Dt. 16/03/1994
	CRZ LINE(V/S)	
	CRZ LINE(R)	







# GUJARAT POLLUTION CONTROL BOARD

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

By R.P.A.D.

**CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A - Amendment)**  
**CCA AMENDMENT NO: H-126209**

**NO: GPCB/BRCH-B/CCA- 265(3)/ID-62935/**

**DT: /11/2023**

To,  
~~M/s. Karti Industries Limited (U-III)~~  
Plot no: Z/111/B, SEZ-II, Dahej,  
Tal: Vagra, Dist: Bharuch.

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

**REF:** (1) Your application No. 269311 dated 06/11/2023  
(2) CTE No. 124234 dated: 05/04/2023  
(3) CCA No. AWH -108077 dated: 12/10/2020 (CCA Fresh)  
(4) CCA - Amendment No. AWH -118267 dated: 01/07/2022

This has reference to the CCA order No: AWH-108077, issued vide letter no. GPCB/ BRCH/ CCA-265(3)/ID-62935/569750, dated 12/10/2020 and further amended dated 01/07/2022 under the provisions of the various Environmental Act/ Rules, which stands amended as under.

**The validity of this order shall be up to 04/03/2025.**

**1. Specific conditions:**

- Unit shall not procure any hazardous waste without obtaining Rule-9 under HOWER-2016 and CTE/CCA -Amendment.
- Unit shall comply with all conditions of EC dated 14/12/2018 and 22/06/2021.
- There shall be no change in raw material, process and product profile.
- Unit shall not carry out any construction activities and production which attracts provisions of Environment Clearance without obtaining EC from competent authority under EIA notification dated 14/09/2006 and amended thereafter.

**2. CONDITIONS UNDER HAZARDOUS & OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016**

- Unit shall comply with provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules-2016.
- The condition No. 6.2 under authorization for Hazardous & other wastes of the CCA order No: AWH-108077, issued vide letter no. GPCB/ BRCH/ CCA-265(3)/ID-62935/569750, dated 12/10/2020 and further amended dated 01/07/2022 which stands amended as under.

Sr. No.	Name of Haz. Waste	Category Number	Quantity, MT/Year			Facility
			Exl.	Pro.	Total	
1	ETP Waste	35.3	280	0	280	Collection, Storage, Transportation and send common TSDF Site.

2	Discarded containers/bags	33.1	20	0	20	Collection, Storage, Decontamination/ detoxification and send to authorized decontamination facility.
3	Used Oil	5.1	2.4	0	2.4	Collection, Storage, Transportation and send to authorized reprocesses/Recyclers.
4	Spent Carbon	36.2	12	0	12	Collection, Storage, Transportation & send to cement industry for pre/co processing registered with XGN OR send to CHWIF.
5	Residue	26.1	12	0	12	Collection, Storage, Transportation & send to cement industry for pre/co processing registered with XGN OR send to CHWIF.
6	Concentrated ML from rector tank & equipment washing	26.1	0	94	94	Collection, Storage, Transportation & send to cement industry for pre/co processing registered with XGN OR send to CHWIF.
7	Spent Solvent	26.4	0	38	38	
8	Off specification product	26.1	24	0	24	
9	Non-recyclable plastic waste/PPEs Waste/Bags/cotton/paper waste	33.1	50	--	50	Collection, Storage, Transportation and send to common TSDF Site.
10	Packaging material decontamination & detoxification	34.1	0	45	45	Collection, Storage, Transportation & send to cement industry for pre/co processing registered with XGN OR send to CHWIF.

**Note:** Insulation waste- 20 TPA and Batteries waste- 50 Nos./Annum shall be managed/ disposed as per applicable prevailing rules/ notification amended from time to time.

3. All other conditions of the CCA order No: AWH-108077, issued vide letter no. GPCB/ BRCH/ CCA-265(3)/ID-62935/569750, dated 12/10/2020 and further amended dated 01/07/2022 shall remain unchanged.

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD

(M.R. Macwana)  
Unit Head- Bharuch

### Compliance of EMP Conditions

Sr. No.	Conditions	Compliance
<b>Construction Phase</b>		
<b>i</b>	<b>Site Preparation</b>	
1	Uplift of dust during the excavation, leveling operations etc.  Control Measure: Sprinkling of water over land, and provision of enclosure.	Complied Regular sprinkling of water over land, and provision of enclosure done for dust reduction in workplace
<b>ii</b>	<b>Sanitization</b>	
1	Sanitization facilities.  Control Measure: Sewage will be sent to soak pit.	Complied Sewage water is now treated in the STP plant.
<b>iii</b>	<b>Noise</b>	
1	Movement of vehicles like truck, Dozer, Cranes.  Control Measure: Restrict movement of vehicle between 10 p.m. to 6 a.m. All vehicles will be maintained in well condition	Complied Restrict movement of vehicle between 10 p.m. to 6 a.m. All vehicles are maintained in well condition
2	Construction activity.  Control Measure: Engineering control, Provide noise protection devices like earmuffs, ear plug to worker, Rotation of work to minimize exposure.	Complied Engineering control, noise protection devices like earmuffs, ear plug to worker, Rotation of work are provided to minimize exposure.
<b>iv</b>	<b>Wastes from construction equipment</b>	
1	Dozer, Cranes  Control Measures: Avoid spillage, proper storage, disposal by selling to reprocessor.	Complied Unit has avoided spillage, proper storage, disposal by selling to reprocessor.
2	Painting  Control Measures: Proper storage, disposal by selling to authorized buyers/incineration.	Complied Unit has properly stored and disposed to authorized buyers/incineration.
3	Construction.  Control Measures: Use for leveling purpose within premises	Complied Use has used leveling purpose for filling of low lying area.
<b>Operation Phase</b>		
<b>A.</b>	<b>Air Environment</b>	
1	Flue Gas Emissions: Unit shall provide acoustic enclosure and adequate stack height for D.G Set	Complied Unit has provided acoustic enclosure and adequate stack height for D.G Set
2	Process Gas Emissions:  Unit shall provide APCM and adequate stack height for control of process gaseous emissions	Complied. Unit has provided a scrubber system and adequate stack height to all process gas emissions.
3	Fugitive Emissions:	Complied
<b>B.</b>	<b>Water Environment</b>	
1	Water Consumption  The total water consumption of the proposed new unit will be 1429 KL/day. Out of the total water of 1429 KLD, fresh water will be 1253 KLD (Domestic requirement will be 47 KLD and industrial requirement will be 1262 KLD).	Agreed Unit will ensure, the permitted water consumption value will not be exceeded.
2	Wastewater Generation:  Total waste water generation shall not exceed permissible limit	Agreed Unit will ensure, the permitted wastewater generation value will not be exceeded.
<b>C.</b>	<b>Noise Environment</b>	
1	Transportation activities  Control Measures: a. Green belt, Restriction on transportation between 08 p.m. to 9 a.m., Maintain vehicle in good condition.	Agreed Unit had initiate the development of the green belt area. already unit is restricting on transportation between 08 p.m. to 9 a.m.,and maintaining vehicle in good condition.
2	D.G. Set  Control Measures: a. Acoustic enclose, Engineering control, b. Provision of PPE, Green belt,	Complied Provided acoustic enclose, Engineering control in D. G. Set for preventing noise pollution
3	Plant/Process area	Complied
<b>D.</b>	<b>Land Environment</b>	

1	Development of greenbelt comprising of appropriately selected species of shrubs and trees. It is recommended that plantation be made on sites, road sides, around waste treatment units.	Complied  Green belt developed with appropriate species of shrubs and trees like Gulmohar, Neem and Pelta Farm. Plantation is done on site, road sides, around waste treatment units.
<b>E. Raw Material and Product Storage Area</b>		
1	Raw materials will be stored in M.S tanks, S.S tank and HDPE Carboys, HDPE bags,etc in sepeerate storage room	Complied  Raw materials are stored in M.S tanks, S.S tank and HDPE Carboys, HDPE bags,etc in sepeerate storage room for first phase production will do the same in next phases
2	Separate collection system is provided for collection of spillage material. Impervious layer, RCC roads and flooring is provided to area, where the chemical storage and handling activities is involved	Complied  Separate collection system is provided for collection of spillage material. Impervious layer, RCC roads and flooring is provided to area, where the chemical storage and handling activities is involved for first phase production will do the same in next phases
3	Hazardous flammable substances are separately stored within premises. Solvent transfer will be done by pumps. Reactor & solvent handling pump have mechanical seal	Complied  Hazardous flammable substances are separately stored within premises. Solvent transfer is done by pumps. Reactor & solvent handling pump which have mechanical seal for first phase production will do the same in next phases
4	The acid tanks will be provided with dyke wall to control spread of leakages.	Complied  The acid tanks are provided with dyke wall to control spread of leakages for first phase production will do the same in next phases
<b>F. Vehicular Pollution Control</b>		
1	All vehicles will be maintained in well condition by regular preventive maintenance to reduce the exhaust level.	Complied  All vehicles are maintained in well condition by regular preventive maintenance to reduce the exhaust level. Spark arrestor is used for all vehicles entering the site.
2	Drivers of all vehicles used in the transportation will be trained in transportation of Hazardous chemicals to prevent any accident. Fitness and training test certificate approved by R.T.O to be maintained on the vehicle at all times to ensure transport worthiness.	Complied  Unit has developed a checklist which is checked by the security personnel at the entry of material gate. The checklist consists of all the mentioned points which is attached as
<b>G. Safety Measures to Prevent the Occupational Health Hazards</b>		
1	All reasonably practical measures will be adopted by the unit to minimize the risk of accidents within a chemical manufacturing unit	Complied  All reasonable practical measures like: a. Work specified PPEs b. Safety Showers c. Fire extinguishers d. Hydrant tank with circulated networks e. DG Sets etc. are provided to minimize the risk of accidents.
2	All building plans and installations will be as per relevant laws and will be approved by competent authority	Agreed & Complied  Unit has considered to construct Green Buildings which will be approved by the competent authority
3	Suitable personnel protective equipments and fire extinguishers at strategic locations and suitable personal protective equipments will be provided	Complied  Unit has provided PPEs and Fire Extinguishers at Strategic Locations.
4	Training will be imparted to all workers for all the hazardous process operations within the plant and will be supervised by experienced supervisors	Complied  Trainings have been for all workers who deal with hazardous process operations within the plant
5	Flame proof electrical fittings, flame arrestors etc will be installed	Complied  Unit has provided Flame proof electric fittings, flame arrestors etc.
6	All the raw materials will be stored in designated storage area equipped with necessary safety features	Complied  All the raw materials have been stored in the RM Warehouse and which is equipped with specific safety features.
7	Periodic inspection & testing of pressure vessels, equipments, and machineries will be done.	Complied  Regular preventive maintenance and periodic inspection of machines is done by the Unit for first phase of produciton and will do the same for next phases.

8	Good housekeeping will be ensured within the factory premises	Complied Good house keeping is ensured within the factory.
9	All designated staff & workers will be trained for the fire-fighting, work permit system, first aid and safe handballing of hazardous chemicals.	Complied All designated staff & workers are properly trained and regular trainings are provided for fire-fighting, work permit system, first aid and safe handballing of hazardous chemicals.
10	Incident/accident reporting system will be developed and all the employees will be made aware for the same.	Agreed & Comply Unit will report incident or accident to all the employees for their awareness.
11	Suitable notices/boards will be displayed at designated locations indicating appropriate hazard warnings.	Agreed and will Comply Proper boards/notices will be displayed at designated locations indicating hazard warnings.
12	Antidotes as well as MSDS for all the chemicals will be made available within the factory premises.	Complied Antidotes are MSDS are available for all chemicals within company premises.
13	Pre-employment medical checkup at the time of employment will be carried out. In order to safe guard the health of the employees, all the employees undergo periodic health checkup at every six month.	Complied Pre-employment medical checkup at the time of employment is carried out. All the employees undergo periodic health checkup at every six month.
H.	<b>Storm Water Management</b>	
1	The drains for storm water will be kept clean and dry in summer and winter. The storm water drains will be connected to holding tank. The rain water of the premises will be collected in this holding tank through storm water drains. The collected water will be analyzed for any contamination of pollutants for 1st and 2nd rain during monsoon. If analysis indicates any contamination, the collected water will be diverted to ETP plant. In case of no contamination, the collected water will be used in cooling tower and other applications.	Agreed and will comply.
I.	<b>Energy Conservation Programme</b>	Agreed and will comply. 1. Unit has planned to consider the solar panels on the roofs of admin and security buildings. 2. Unit will ensure the Preventive Maintenance of equipments which may cause excess energy expenditure.
j.	<b>Water Conservation Programme</b>	Agreed and will comply Unit has provided ETP and will provide RO & MEE to recycle water which will result in reduction of freshwater consumption. Unit has started the STP operation and sweage water are treated in STP Plant we will reuse the treated water from STP to the gardening purpose. Unit will ensure to provide Stormwater reserrior to reuse water for various industrial purposes.
K.	<b>Management of Traffic</b>	
	Parking space for vehicles will be provided for loading and unloading products. Adequate roads to cater to two way traffic and to meet the fire regulations are planned in the complex.	Complied Unit has provided wide two-way RCC roads for managment of traffic. Proper parking space will be provided for loading and unloading products.
L.	<b>Social Welfare measures for Future Planning</b>	
1	Providing materials and monetary aid to schools, primary health centers, hospitals, sports, clubs and places of worship.	Complied CER & CSR activity has been done by the unit.



**PUBLIC LIABILITY ACT POLICY  
POLICY SCHEDULE**

Agent/Broker Name -PRUDENT INSURANCE BROKERS PVT. LTD.

Agent/Broker License Code - 291:Agent/Broker :Contact No - 2233066000 (mobile or landline)

**Attaching to and forming part of Policy No.** 0304011371 00 00  
**Name of Insured Owner:** AARTI INDUSTRIES LIMITED  
**Business:** CHEMICAL MANUFACTURING

**Address:** 71, UDYOG KSHETRA, 2ND FLR. MULUND-GOREGAON, LINK ROAD,  
MULUND (W), MUMBAI  
MUMBAI - 400080  
MUMBAI  
MAHARASHTRA  
INDIA  
27AABCA2787L1ZC(GSTIN Number)  
Place of supply -MAHARASHTRA  
State code -27

**Territorial limits:** Anywhere in India

**Policy Period: From:** 09/01/2024 12:00 AM/ PM  
**To Midnight of:** 08/01/2025 12:00 AM/ PM

Indemnity limit:Rs 50,000,000.00 in respect of any one accident and not exceeding 3 times thereof in the aggregate during the policy period.

Service Tax Registration No:

Premium	₹ 10,135.94
UGST/SGST @9 %	₹ 912.00
CGST @9 %	₹ 912.00

**Contribution to the  
Environment Relief Fund:₹ 10,135.94**

**Date of Proposal and declaration:09/01/2024**

In witness whereof the undersigned being duly authorized by the company and on behalf of the company has hereto set his hand at MUMBAI on 18/01/2024

The stamp duty of 0.5 paid in cash or demand draft or by pay order,vide Receipt/Challan no: LOA/CSD/01/2023/4269 dated the 25/10/2023

**For Tata AIG General Insurance Company Limited**



**Authorized Signatory**

Date :18/01/2024

Place :MUMBAI

**Policy Servicing Office  
Tata AIG General Insurance Company Limited**

2ND FLOOR, CITI TOWER, 61, DR. S.S.RAO ROAD,, NEXT TO M.G.M HOSPITAL, PAREL(E), MUMBAI - 400012,MUMBAI,MAHARASHTRA,MUMBAI-400012  
Tel No:22-22-62606600



# Tata-AIG General Insurance Company Limited



Attached and Forming Part of the Policy Number:- 0304011371 00 00

Location	Location Address
Alchemie Organics	PLOT NO. 902 923 PHASE-III, G.I.D.C, VAPI, DIST VALSAD, VAPI 396195
AMINE	285,286/1 A 322 12 23 24 NA 40SHED AREA GIDC PHASE II DIST-VALSAD, VAPI 396195
APPLE ORGANICS	PLOT NO. 610 , 609 & C1B/70, REVENUE SURVEY NO 234/P ,100,SHED AREA, GIDC , VAPI, VALSAD 396195
Baroda	Block number 1, 3rd floor, R S No 3, Keval Corporate Park, Village channi, Baroda-390002 BLOCK NO 5 R S NO 380 VILLAGE CHANNI KEVAL CORPORATE PARK BUILDING T P SCHEME NO 48 FP NO 43/1 OPP CHHANI GEB NEAR PRAKRUTI RESTAURANT BARODA - 391740 PARKWAY REALTY LLP
DAHEJ- NEO	PLOT NO.Z/103/C DAHEJ SEZ II, TAL VAGRA, DIST. BHARUCH, GUJARAT-392130
DAHEJ-DIAMOND	PLOT NO Z-103/H SEZ-II, DAHEJ, TAL- VAGRA, DIST - BHARUCH 392130,
DAHEJ-SAFRON	PLOT NO - Z 111 B, DAHEJ, SEZ-II,TAL VAGRA, DIST. BHARUCH-392130
NASCENT	PLOT NO. 24, PHASE-I, G.I.D.C., DIST. VALSAD, VAPI 396195
R & D MHAPE/Turbe	PLOT NO A-94/1 MIDC , TTC IND AREA,NAVI MUMBAI - DIST THANE
ACID	PLOT NO. 801-23, TO 802,803,804/1-2-3, 15 TO 19, 21 AND 22 PHASE-III, G.I.D.C. ,INDUSTRIAL ESTATE,VAPI 396195
Nutrient	PLOT NO. 802,803,804/12-3, 801/15 TO 19, 21 AND 22 PHASE-III, G.I.D.C. ,INDUSTRIAL ESTATE,VAPI 396195
R & D VAPI - Organic	PLOT NO. 802,803,804/12-3, 801/15 TO 19, 21 AND 22 PHASE-III, G.I.D.C. ,INDUSTRIAL ESTATE,VAPI 396195
SSP Fertiliser	PLOT NO. 801/15, TO 19, 21 AND 22 PHASE-III, G.I.D.C. ,INDUSTRIAL ESTATE,VAPI 396195
Vapi Unit - Organic	PLOT NO. 801-23, TO 802,803,804/1-2-3, 15 TO 19, 21 AND 22 PHASE-III, G.I.D.C. ,INDUSTRIAL ESTATE,VAPI 396195

3M (New Location)	PLOT NO 778 , 758/1-2-3 & 756/4-5, 779 AJANTA PAPER & GENERAL PROC,GIDC JHAGADIA - DIST BHARUCH 393110 PLOT NO 41-1 & 41-2. JHAGADIA GIDC ESTATE ANKLESHWAR, DIST BHARUCH 393110
Jaghadia (Pearl,Ruby, Jade,Gold)	Plot No. 756 - 8/9, 758/1,2,3 Survey no. 345, 348, 356, 357, 358, 359, 360 & 364 Plot No. 756-2A/B, 3A/B, 4A/B, 5A/B,6,7,8,9 & Survey No. 122 Plot no. 778, P.B No. 24, GIDC, Jhagadia-393110, Dist- Bharuch, Gujarat Plot No 41/3/1-2-3, Jhagadia, Dist- Bharuch, Gujarat
TARAPUR UNIT -2	Plot No. L-5,L-4, L-8,L-9/1, MIDC, Tarapur, Boisar.
Kutch	SURVEY NO. 1430/1, NATIONAL HIGHWAY NO. 8-A, KUTCH BHACHAU, GUJARAT 370140
Mulund	71 Udyog Kshetra 2nd Floor Mulund Goregaon Link Road, Mulund West, Mumbai 400080
Vikhroli	Tower C, 4th Floor, 247 Embassy Park, LBS Marg, Vikhroli (W), Mumbai- 400083



**For Tata AIG General Insurance Company Limited**

**Authorized Signatory**

To,  
The Deputy Director,  
Industrial Safety and Health,  
2nd Floor, Near Gayatri Nagar,  
Kanbivaga, Bahumali Building,  
Bharuch 392001.

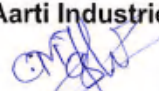
**Subject:** Submission of documents as advised during discussion.

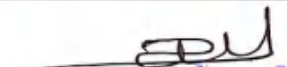
**Respected Sir,**

This is with reference to the discussion held on 01/07/2023 at Bharuch, Please find following documents as advised.

Sr. No.	Particulars	Status
1	Pressure Vessel testing of all vessels as per RULE61 of GFR 1963.	Total no. of <b>Pressure Vessels</b> : 37 Nos. <b>Testing Completed:</b> 37 Nos. <b>Annexure A:</b> ( <u>Summary and List of Pressure Vessels</u> )
2	Third Party Safety Audit Report as per IS 14489:2018 , Its Recommendations & Compliance.	A Third Party Safety audit was conducted on Oct. 22 and compliance report is attached as an Annexure B. <b>Annexure B:</b> ( <u>Compliance Report</u> )
3	Updated Onsite Emergency Plan	The Updated Onsite Emergency Plan is attached as on Oct 2022 <b>Annexure C1:</b> ( <u>On site emergency plan</u> ) <b>Annexure C2:</b> ( <u>Office Copy of submitted Onsite Emergency Plan</u> )
4	Workplace area monitoring report , Form No-37	The workplace monitoring is being carried out on a weekly basis at key identified locations. . <b>Annexure D</b> ( <u>Workplace Area Monitoring Record</u> )
5	Medical Examination report as per targeted organs	Medical Examination is being conducted periodically. The list of tests are attached for your reference , Sample report is attached <b>Annexure E1 :</b> <u>Medical test Reports</u> <b>Annexure E2 :</b> <u>Sample Periodical Medical Examination Report.</u> <b>Annexure E3 :</b> <u>CIH certificate of FMO.</u>
6	Fire adequacy Study & Report	1. The <u>Provisional Fire NOC</u> was obtained from Bharuch Nagarpalika in Nov. 2019 attached as reference. 2. Compliance as per <u>GFR 1963 Rule 66A</u> . 3. PO Copy of Fire Adequacy study is attached and work will be completed before 30.09.2023. PO NO: <u>4580511386 &amp; 4580511623</u> <b>Annexure F1:</b> <u>Provisional Fire NOC</u> <b>Annexure F2:</b> <u>Compliance report of Rule 66 A</u> <b>Annexure F3:</b> <u>PO copy for Fire Adequacy Study.</u>
7	DISH Circular Compliance	The compliance to DISH circular is attached herewith. <b>Annexure G1 :</b> <u>Compliance Report as per DISH Circular</u> <b>Annexure G2:</b> <u>CO2 Flooding system installation certificate</u>

Thanking You,  
For, Aarti Industries Limited,

  
Charudatta Joshi  
(Authorized Signatory)

 14/7/2023  
કુનિયર જોશી  
ઔદ્યોગિક સલામતી અને સ્વાસ્થ્ય  
ભરૂચ







भारत सरकार /Government of India  
वाणिज्य और उद्योग मंत्रालय /Ministry of Commerce & Industry  
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) /Petroleum & Explosives Safety Organisation (PESO)  
PESO's ONLINE LICENSING SYSTEM

इमेल /E-mail : [explosives@explosives.gov.in](mailto:explosives@explosives.gov.in)  
दूरभाष /Phone/Fax No : 0712 -2510248, Fax-2510577  
दिनांक/Dated : 30/11/2020

संख्या/No : P/WC/GJ/15/2711(P424841)

सेवा में / To,

M/s. Aarti Industries Ltd,  
PLOT NO. 801,801/23, IIIRD PHASE,  
VAPI,  
Valsad,  
District: VALSAD,  
State: Gujarat  
PIN: 396195

विषय / Sub : License to import and store petroleum in an installation situated at Plot No, Z-111-B, DAHEJ SEZ -II, Vagra, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392130, Licence no. P/WC/GJ/15/2711(P424841) granted in Form XV of the Petroleum Rules, 2002 – Online Renewal of Licence regarding.

महोदय / Sir(s),

Please refer to your online renewal application filed in the PESO's online Licensing System on 30/11/2020. The license No. P/WC/GJ/15/2711(P424841) granted under Petroleum Rules, 2002 has been renewed up to 31/12/2025 and PESO's records have been updated accordingly.

The validity of the subject license can be verified by entering Dockey through the Public Domain link available on PESO's website : <http://peso.gov.in>. You are advised to keep this communication attached with your subject original/latest amended license issued by this organisation.

For further renewal, please submit application online on or before the date on which the subject license expires.

***This is a system generated online letter which does not require signature and reply to this letter is not warranted.***

PESO's ONLINE LICENSING SYSTEM

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



**PESO Online Payment Receipt / Status**

## Details of the transaction

Transaction Status	SUCCESS
Receipt No.	654202
Application No.	OIN654203
Transaction Reference Number	VICI9514425172
Transaction Date and Time	30-11-2020 13:25:39
Bank Reference Number	2132562846
Rule	Petroleum Rules
Form No. (Purpose)	FORM-XV UG (License to import and store petroleum in Underground tanks only)
Doc Key	P424841
Subject	Self Online Renewal
Licensee Name	M/s. M/s. Aarti Industries Ltd
Transaction Amount ₹	52500.00
Transaction Amount(In Words)	Fifty Two Thousand Five Hundred Rupees
(Payment Receipt is system generated hence No Signature is required.)	

प्ररूप XV  
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)  
FORM XV  
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुज्ञप्ति  
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.) : P/WC/GJ/15/2711(P424841)

फीस रूपए (Fee Rs.) 10500/- per year

M/s. Aarti Industries Ltd, PLOT NO. 801,801/23, IIIRD PHASE, VAPI, Valsad, District: VALSAD, State: Gujarat, PIN: 396195 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 101.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/WC/GJ/15/2711(P424841) तारीख 30/11/2020 जो कि इससे उपाबद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. Aarti Industries Ltd, PLOT NO. 801,801/23, IIIRD PHASE, VAPI, Valsad, District: VALSAD, State: Gujarat, PIN: 396195 valid only for the importation and storage of 101.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/WC/GJ/15/2711(P424841) dated 30/11/2020 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2025 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 31st day of December 2025

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	60.00 KL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	41.00 KL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	101.00 KL

March 9, 2020

For Jt. Chief Controller of Explosives  
WC, Mumbai

अनुज्ञप्त परिसरों का विवरण और अवस्थान  
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टयां संलग्न अनुमोदित नक्शों में दिखाई गई हैं Plot No: Z-111-B, DAHEJ SEZ -II, Vagra, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392130 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 2 Under Ground tank(s) for CLASS A , 1 Under Ground tank(s) for CLASS B सम्मिलित हैं।



The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at **Plot No: Z-111-B, DAHEJ SEZ -II, Vagra, Taluka: Vagra, District: BHARUCH, State: Gujarat, PIN: 392130** and consists of **2 Under Ground tank(s) for CLASS A, 1 Under Ground tank(s) for CLASS B** together with connected facilities.

**document does not require signature.**

**Note:-This is system generated**

अनुज्ञप्ति संख्या-(Licence No.) P/WC/GJ/15/2711 (P424841)

**नवीनीकरण के पृष्ठांकन के लिए स्थान**  
**SPACE FOR ENDORSEMENT OF RENEWALS**

पेट्रोलियम अधिनियम, १९३४ के उपबन्धों यानवीकरण की तारीख समाप्ति की तारीख अनुज्ञापन प्राधिकारी के हस्ताक्षर उनके अधीन बनाए गए नियमों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञप्ति फ़िस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी।  
Date of Renewal      Date of Expiry of license      और स्टाम्प  
Signature and office stamp of the licencing authority.

This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.

1).      30/11/2020    31/12/2025    License Renewed Online

यदि अनुज्ञप्ति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्तिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

**Note:-This is system generated document does not require signature.**



Online Inward Number : OIN654203

Online Inward Date : 30/11/2020

Application for Self Online Renewal license - License to import and store petroleum in Underground tanks only

**FORM IX**

(see rules 143,147,148 and 156 )

(Documents listed below must be enclosed with this application,if it is for the grant of licence in Forms XIV,XV and XVI or in Special Form )

The replies to be given in this column

- 1 Applicant's name M/s. M/s. Aarti Industries Ltd,  
Applicant's calling Aarti Industries Limited  
Applicant's full postal address PLOT NO. 801,801/23, IIIRD PHASE ,VAPI ,Valsad ,District:  
VALSAD, State: Gujarat PIN: 396195
- 2 Situation of the premises where Petroleum is to be stored  
Plot No: Z-111-B, DAHEJ SEZ -II  
State Gujarat  
District BHARUCH  
Taluka Vagra  
Town and Village  
PIN 392130  
Police Station DAHEJ  
Nearest Railway Station BARUCH

- 3 Quantity (in liters) of petroleum proposed to be imported and stored

		in Bulk	Not in Bulk	Total
(i)	Petroleum Class A	NIL	NIL	NIL
(ii)	Petroleum Class B	NIL	NIL	NIL
(iii)	Petroleum Class C	NIL	NIL	NIL
Total of all classes of Petroleum		NIL	NIL	NIL

- 4 Quantity (in liters) of petroleum already stored in the premises

		in Bulk	Not in Bulk	Total
(i)	Petroleum Class A	60.00 KL	NIL	60.00 KL
(ii)	Petroleum Class B	41.00 KL	NIL	41.00 KL
(iii)	Petroleum Class C	NIL	NIL	NIL
Total of all classes of Petroleum		101.00 KL	NIL	101.00 KL

- <%-- Number of licence held for the P/WC/GJ/15/2711(P424841) M/s. M/s. Aarti Industries Ltd  
5.--%> premises and the full name of the holder of the licence.

I hereby declare that the statements made above have been checked up by me and are true and I undertake to abide by the terms and conditions of the licence which will be granted to me.

Remark

**Details of Online Payment :**

- (i). No. VICI9514425172 Date 30/11/2020 worth Rs. 52500/- Branch Name :ONLINE

**Following below self declaration particulars and hereby agree and certify the same. :**

1. I/We hereby confirm that the site whose details are mentioned in the license is under my/our legal / physical possession and have clear right to use the same for storage of petroleum.  
I/We hereby confirm that I /We have clear rights to use the site whose details are mentioned above for storage of petroleum. The site is, however, under legal / physical possession of the dealer. (Applicable for dealer owned / controlled sites).
2. I / We hereby confirm that no order whatsoever have been passed towards cancellation of the lease or eviction of the site by any Competent Court of Law.
3. I / We hereby confirm that no litigation / court proceeding are under way in any court of law.

**Online Inward Number : OIN654203****Online Inward Date : 30/11/2020**

4. I / We hereby confirm that there is no change in the quantity of petroleum to be stored in the licenced premises.
5. I / We hereby confirm that the lease agreement ; partnership deed/ memorandum and article of association; approval/clearance/permit as applicable from the district / local administrative authorities is valid and in place as on date.
6. I / We hereby confirm that no amendment / addition / alteration of any type has been undertaken in the subject premises without approval of licencing authority; the construction, dimensions, class of petroleum stored and overall site layout of the premises is matching with the approved plan issued along with licence during grant / amendment of licence. If any modification is undertaken in the premises; approval from the respective office shall be sought, in accordance with Act & Rules.
7. I / We hereby confirm that no part or any section of the licenced premises has been sub-let for conducting any type of commercial / non- commercial / residential or any kind of activities. Premises is not being used as a thoroughfare for approaching other premises.
8. I / We also confirm that there is no inspection remark, show cause notice, suspension notice is issued.
9. A valid agreement in between I / We and petroleum supplier exists and is valid as on date.
10. I / We hereby confirm that the No Objection Certificate issued by the District Authority is valid and no order has been issued for Show cause/ suspension / withdrawal of No Objection Certificate.
11. I / We hereby declare that the subject license does not form part of a refinery or cross country pipeline .

**If Yes**

- I / We hereby declare that the subject license forms part of a refinery / cross country pipeline and the Approval of refinery/ pipeline under Petroleum Rules 2002 is still valid and no order has been issued for Show cause/ suspension / stop order under refinery/ pipeline approval .
12. I hereby certify that the petroleum storage premises conform to all the provisions of the Petroleum Rules and conditions of the license Form XV issued under the Petroleum Rules, 2002.
  13. I hereby declare that the details furnished above are true and correct to the best of my knowledge and belief and I undertake to inform you of any changes therein, immediately.
  14. In case any of the above information is found to be false or untrue or misleading or misrepresenting, I am aware that I may be held liable for it and suitable action under the Petroleum Act, 1934 (30 of 1934).

Date of application **30/11/2020**

Signature and designation of the applicant



**Annexure-21\_EMERGENCY DOCTOR'S/ HOSPITAL CONTACT LIST**

	Doctor's Name	Location	Address	Contact No.	Service
1	Dr. Avanika Parmar	Bharuch	14 link bungalows, Behind unnati school ,link road ,Bharuch	7069004371	FMO
2	Dr. Naitik S. Modi	Bharuch	1 /303 Shranam Residency ,Zadeshwar Bharuch.	6358920854	FMO

**HOSPITAL CONTECT LIST**

	Name of Hospitals	Location	Address	Contact No.	Service
1	Baroda heart multispeciality hospital	Bharuch	Panchbatti Bharuch-392001	(02642) 260551, 260552	Multispeciality hospital
2	Eye Q Hospital	Bharuch	Panchbatti Bharuch-392001	02642 261 888	Eye care
3	Healing Touch Multispeciality Hospital	Bharuch	2-3rd Floor R.K.Casta, Behind Supermarket Bharuch-392001	9825306787	Multispeciality hospital
4	Orchid Hospital	Bharuch	Moti Doongri, Bharuch, Gujarat 392001		Multispeciality hospital
5	Palmland Hospital	Bharuch	fulshriti nagar, Bharuch	097378 55550	Multispeciality hospital
6	Apex hospital	Bharuch	Adarsh Market, Panchbatti, Bharuch	(02642)264800	Multispeciality hospital

**BLOOD BANK CONTECT LIST**

	Name of Blood Bank	Location	Address	Contact No.	Service
1	Kumar Pal Gandhi Blood Bank	Ankleshwar	Circle, Nagar Palika Shopping Center, Near Tin Rasta, Ankleshwar	(02646) 224530	Blood Bank
2	Red Cross Blood Bank	Bharuch	Main Road, Sevashram Hospital Compound Bharuch-392001	(02646)243603, 9427879628	Blood Bank
3	Manav Blood Bank	Bharuch	Golden Plaza, 109, Railway Station Road, Telephone Exchange, Panch Batti, Bharuch - 392001	9327197202	Blood Bank

**Saffron-FIRST AID BOX DETAILS**

<b>Sr No</b>	<b>Name of Area</b>	<b>FAB No.</b>	<b>Plant Manager</b>	<b>Telephone No.</b>
1	SECURITY OFFICE (MAIN GATE)	AIL/SAF/FAB-01	Ranjit (S/O)	3003
2	ELECTRICAL ROOM ( H.T)	AIL/SAF/FAB-02	Sachin Patel	3060
3	QC LAB	AIL/SAF/FAB-03	Dharmendra Chouhan	3023
4	MCC ROOM	AIL/SAF/FAB-04	Sachin Patel	3060
5	DCS ROOM	AIL/SAF/FAB-05	Vijay Kumar Barde	3010
6	DMP ROOM	AIL/SAF/FAB-06	Vijay Kumar Barde	3084
7	ETP/RO OFFICE	AIL/SAF/FAB-07	Vijay Kumar Barde	3080
8	UTILITY	AIL/SAF/FAB-08	RAVI VADIYA	3083
9	PESO TANK	AIL/SAF/FAB-09	Vijay Kumar Barde	3065
10	HR/ADMIN BUILDING	AIL/SAF/FAB-10	Pathik Patel	3110
11	STORE	AIL/SAF/FAB-11	SIDDARTH DOSHI	3057

OK  
EMP-06  
Canteen-14



# AARTI INDUSTRIES LTD.

## Training / Meeting Attendance Sheet

Session Title	Use of PPE & chemical Handling Safety.				
Date	06/02/24	Duration	11:30 hrs to 12:45 hrs	Timings	1 Hr. (approx)
Location	Training Post	Division/Plant	Saffron	Venue	Training Post.
Trainer	Mr. Dhruv Chohan Engineer.				

Sr.	Emp. Code	Name	Designation	Function	Division	Signature
1	45020010	Pooja yuvraj	DCS APP.	operation	Saffron	[Signature]
2	93026001	Radhika Rutvik	DCS APP	"	"	[Signature]
3	02007	Ashu Anil	APP (APP)	"	"	A.G. AGS
4	0260012	Rohun Valsud	DCS APP	"	"	[Signature]
5	430060013	Munsi Vasuva	DCS APP	"	"	[Signature]
6	53001509	Hansraj Khanna	OPERATOR	"	Saffron	[Signature]
7	16568	Tarashanka Singh	SUP	Management	"	[Signature]
8	18977	Aakash bharv	HR	"	"	[Signature]
9		Amar singh	"	"	"	AMAR
10	21187	Dinesh Kumar	"	"	"	21187 Dinesh
11	17658	Ramika Parmar	HR P	"	"	RAMIKA
12	17652	Bhavika Gehlot	"	"	"	भाविका
13	17659	Aruna Parmar	"	"	"	अरुणा
14	20978	Pushpa Patel	"	"	"	पुष्पा
15		Hetai Rathod	"	"	"	हेतै
16	20510	Jashu-9 Gehlot	"	"	"	जशु
17	16580	Shikha machhi	"	"	"	[Signature]
18	20437	Hansa machhi	"	"	"	[Signature]
19	17140	Parvati machhi	"	"	"	[Signature]
20	17142	Ramjan Rathod	"	"	"	[Signature]

ये ट्रेनिंग दी गई है और ये सब हमने पूर्ण रूपसे समझ लिया है. आगे उसके मुताबिक काम करना हमारी जिम्मेदारी है.

Signature of HR

[Signature]  
Signature of Faculty





# AARTI INDUSTRIES LTD.

## Training / Meeting Attendance Sheet

Venue: DFG G/f. (10:30am to 11:30am) Date: 02/12/23.  
 Session: med. & chemical used in Gotten Printing  
 Training Title / Meeting Agenda:  
 Faculty: Mr. Dhruv Kumar  
 Present: 11

Sr.	Card No.	Name	Designation	Department	Signature
1	<del>59001588</del>	<del>Mayank</del>	<del>Officer</del>	<del>Production</del>	<del>[Signature]</del>
2	<del>59001122</del>	<del>Vivek</del>	<del>Officer</del>	<del>Production</del>	<del>[Signature]</del>
	20617	<u>Shashikumar Purohit</u>		<u>Head Office</u>	<u>[Signature]</u>
	20484	<u>Sukhdev</u>		<u>Help</u>	<u>[Signature]</u>
	20863	<u>Ankit P. Gohil</u>			<u>[Signature]</u>
	<del>20915</del>	<u>Anurag Vishwakarma</u>	<u>R.T.</u>		<u>[Signature]</u>
	21090	<u>Rohit Sharma</u>		<u>SUP</u>	<u>[Signature]</u>
	20589	<u>Kaishav</u>		<u>Help</u>	<u>[Signature]</u>
	21111	<u>Anurag Sharma</u>	<u>SUP</u>	<u>Help</u>	<u>[Signature]</u>
	20771	<u>Sandeep</u>			<u>[Signature]</u>
	20738	<u>Son</u>	"	<u>Help</u>	<u>[Signature]</u>
	20654	<u>[Signature]</u>	"		<u>[Signature]</u>
	19543	<u>Vishal</u>	"		<u>[Signature]</u>

Remarks :  
 Sign of Faculty  
[Signature]  
Dhruv Kumar

# Glimpse of CSR/CER ACTIVITY

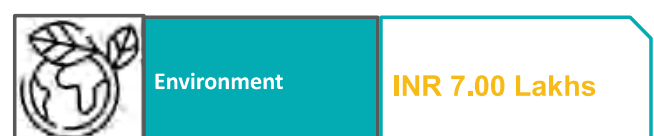


# AARTI INDUSTRIES LIMITED

## CSR/CER fund utilisation



### Amount Spent on CSR/CER





## Free Dental check-up camp

We started this program on 17 December 2019 in vagra taluka, Dahej...

This program is fully financed by AARTI INDUSTRIES LIMITED and managed by "ASHMITA VIKASH KENDRA TRALSA".

In rural areas , people tend to take less dental care. Most of the diseases can be caused due to lack of dental care, so we came up with the idea of doing this program in all villages of bharuch district..

[News published](#)



## Grain kit Distribution at Lakhigam



Due to the inevitable COVID-19 lockdown, daily wages workers are suffering the most. Their work is stopped along with their income. Keeping this in mind, Aarti team visited the nearby Lakhigam and other Village. They identified the villagers who earned their livelihood by means such as selling vegetables and fish, or local shopkeepers. They distributed “Grain Kits”, which consisted of rice, pulses, oil etc. to several houses throughout the village. The Sarpanch of the village and the villagers were very grateful for this contribution.

## Greenbelt Development

World Environment Day is celebrated across the world on 5th June in order to create awareness amongst people about the importance of preserving nature and environment.

Aarti, Dahej has initiated to celebrate this occasion jointly with DAHEJ SEZ LIMITED, Dahej. We have invited surrounding industries to take part in this celebration.

**We have planted approx 250 trees. We have initiated garden and tree plantations in SEZ , the area is approx 14000 sq mtrs.**





## Other CSR Activities

- Donated in olympic of physically and mentally challenged children organised by Kalrav school bharuch.
- Providing Teacher to schools in Vagra taluka.
- Donated water cooler to Primary School, Jageshwar.
- Greenbelt developed to nearby places like lighthouse luvara, police station luvara.
- Developed area for birds at Hari Maharaj, Luvara.



**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/23/12/AIL-3/S-001	<b>Report Issue Date</b>	04/01/2023
<b>Service Request form No.</b>	UERL/AIR/D/SRF/12/S-001	<b>Service Request Date</b>	20/12/2023
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-23/12/001	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-23/12/001
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	20/12/2023	<b>Date of Testing</b>	21/12/2023
<b>Stack Sampling Attached to</b>	<b>D.G. Set –1 (1500 KVA)</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	Diesel		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.		Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	400
3.	Stack Area	m <sup>2</sup>	0.1256
4.	Ambient Temperature	°C	26
5.	Flue Gas Temperature	°C	114
6.	Exit Gas Velocity	m/s	10.5
7.	Exit Gas Flow	Nm <sup>3</sup> /h	3539.1


➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	68	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	17	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	33	<b>50</b>	IS 11255(Part 7)
4.	TVOCs	ppm	2.2	**	GC Method

**Note: 1)** TVOCs Limit Not Defines in GPCB CC&A.,

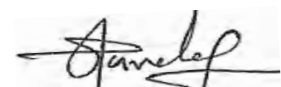
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/23/12/AIL-3/S-002	<b>Report Issue Date</b>	04/01/2023
<b>Service Request form No.</b>	UERL/AIR/D/SRF/12/S-002	<b>Service Request Date</b>	20/12/2023
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-23/12/002	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-23/12/002
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	20/12/2023	<b>Date of Testing</b>	21/12/2023
<b>Stack Sampling Attached to</b>	<b>D.G Set –2 (1500 KVA)</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	Diesel		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	Stack Monitoring Kit, VSS1	<b>Serial Number</b>	467 DTJ 2015
<b>Calibration Date</b>	21/06/2023	<b>Next Calibration Due On</b>	20/06/2024

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	400
3.	Stack Area	m <sup>2</sup>	0.1256
4.	Ambient Temperature	°C	26
5.	Flue Gas Temperature	°C	112
6.	Exit Gas Velocity	m/s	11.2
7.	Exit Gas Flow	Nm <sup>3</sup> /h	3794.6

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	64	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	20	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	35	<b>50</b>	IS 11255(Part 7)
4.	TVOCs	ppm	2.0	**	GC Method

**Note: 1) TVOCs - Limit Not Defines in GPCB CC&A.**

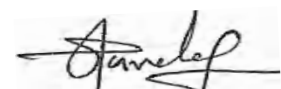
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/24/02/AIL-3/S-001	<b>Report Issue Date</b>	05/03/2024
<b>Service Request form No.</b>	UERL/AIR/D/SRF/02/S-001	<b>Service Request Date</b>	15/02/2024
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-24/02/001	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-24/02/001
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	15/02/2024	<b>Date of Testing</b>	16/02/2024
<b>Stack Sampling Attached to</b>	<b>D.G. Set –1 (1500 KVA)</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	Diesel		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.		Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	400
3.	Stack Area	m <sup>2</sup>	0.1256
4.	Ambient Temperature	°C	--
5.	Flue Gas Temperature	°C	--
6.	Exit Gas Velocity	m/s	--
7.	Exit Gas Flow	Nm <sup>3</sup> /h	--

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	--	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	--	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	--	<b>50</b>	IS 11255(Part 7)
4.	TVOCs	ppm	--	**	GC Method

**Note:** 1) D.G. Set –1 : Not In Operation. 2) TVOCs Limit Not Defines in GPCB CC&A.,

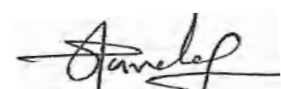
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

Test Report No.	UERL-D/24/02/AIL-3/S-002	Report Issue Date	05/03/2024
Service Request form No.	UERL/AIR/D/SRF/02/S-002	Service Request Date	15/02/2024
Sample ID No.	UERL/AIR/D/ID/S-24/02/002	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/02/002
Name & Address of Customer	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
Date of Sampling	15/02/2024	Date of Testing	16/02/2024
Stack Sampling Attached to	<b>D.G Set –2 (1500 KVA)</b>		
Air Pollution Control Device	--		
Fuel Used	Diesel		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 2015
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	400
3.	Stack Area	m <sup>2</sup>	0.1256
4.	Ambient Temperature	°C	--
5.	Flue Gas Temperature	°C	--
6.	Exit Gas Velocity	m/s	--
7.	Exit Gas Flow	Nm <sup>3</sup> /h	--

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	--	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	--	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	--	<b>50</b>	IS 11255(Part 7)
4.	TVOCs	ppm	--	**	GC Method

**Note:** 1) D.G. Set –2: Not In Operation. 2) TVOCs - Limit Not Defines in GPCB CC&A.

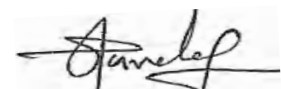
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/24/01/AIL-3/S-001	<b>Report Issue Date</b>	05/02/2024
<b>Service Request form No.</b>	UERL/AIR/D/SRF/01/S-001	<b>Service Request Date</b>	18/01/2024
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-24/01/001	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-24/01/001
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	18/01/2024	<b>Date of Testing</b>	19/01/2024
<b>Stack Sampling Attached to</b>	<b>D.G. Set –1 (1500 KVA)</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	Diesel		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.		Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	400
3.	Stack Area	m <sup>2</sup>	0.1256
4.	Ambient Temperature	°C	28
5.	Flue Gas Temperature	°C	125
6.	Exit Gas Velocity	m/s	11.1
7.	Exit Gas Flow	Nm <sup>3</sup> /h	3671.6

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	71	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	22	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	35	<b>50</b>	IS 11255(Part 7)
4.	TVOCs	ppm	2.3	**	GC Method

**Note: 1)** TVOCs Limit Not Defines in GPCB CC&A.,

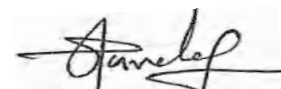
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(STACK MONITORING)**

Test Report No.	UERL-D/24/01/AIL-3/S-002	Report Issue Date	05/02/2024
Service Request form No.	UERL/AIR/D/SRF/01/S-002	Service Request Date	18/01/2024
Sample ID No.	UERL/AIR/D/ID/S-24/01/002	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/01/002
Name & Address of Customer	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
Date of Sampling	18/01/2024	Date of Testing	19/01/2024
Stack Sampling Attached to	<b>D.G Set –2 (1500 KVA)</b>		
Air Pollution Control Device	--		
Fuel Used	Diesel		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 2015
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	400
3.	Stack Area	m <sup>2</sup>	0.1256
4.	Ambient Temperature	°C	28
5.	Flue Gas Temperature	°C	121
6.	Exit Gas Velocity	m/s	10.8
7.	Exit Gas Flow	Nm <sup>3</sup> /h	3608.7

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	67	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	19	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	32	<b>50</b>	IS 11255(Part 7)
4.	TVOCs	ppm	2.1	**	GC Method

**Note: 1) TVOCs** - Limit Not Defines in GPCB CC&A.

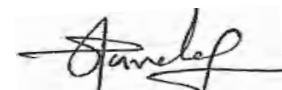
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/24/03/AIL-3/S-001	<b>Report Issue Date</b>	04/04/2024
<b>Service Request form No.</b>	UERL/AIR/D/SRF/03/S-001	<b>Service Request Date</b>	15/03/2024
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-24/03/001	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-24/03/001
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	15/03/2024	<b>Date of Testing</b>	16/03/2024
<b>Stack Sampling Attached to</b>	<b>D.G. Set –1 (1500 KVA)</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	Diesel		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.		Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	400
3.	Stack Area	m <sup>2</sup>	0.1256
4.	Ambient Temperature	°C	--
5.	Flue Gas Temperature	°C	--
6.	Exit Gas Velocity	m/s	--
7.	Exit Gas Flow	Nm <sup>3</sup> /h	--

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	--	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	--	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	--	<b>50</b>	IS 11255(Part 7)
4.	TVOCs	ppm	--	**	GC Method

**Note:** 1) D.G. Set –1 : Not In Operation. 2) TVOCs Limit Not Defines in GPCB CC&A.,

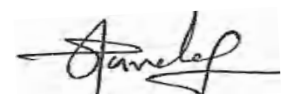
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/24/03/AIL-3/S-002	<b>Report Issue Date</b>	04/04/2024
<b>Service Request form No.</b>	UERL/AIR/D/SRF/03/S-002	<b>Service Request Date</b>	15/03/2024
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-24/03/002	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-24/03/002
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	15/03/2024	<b>Date of Testing</b>	16/03/2024
<b>Stack Sampling Attached to</b>	<b>D.G Set –2 (1500 KVA)</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	Diesel		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	400
3.	Stack Area	m <sup>2</sup>	0.1256
4.	Ambient Temperature	°C	--
5.	Flue Gas Temperature	°C	--
6.	Exit Gas Velocity	m/s	--
7.	Exit Gas Flow	Nm <sup>3</sup> /h	--


➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	--	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	--	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	--	<b>50</b>	IS 11255(Part 7)
4.	TVOCs	ppm	--	**	GC Method

**Note:** 1) **D.G. Set –2:** Not In Operation. 2) **TVOCs** - Limit Not Defines in GPCB CC&A.

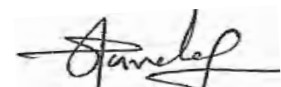
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/23/11/AIL-3/S-001	<b>Report Issue Date</b>	04/12/2023
<b>Service Request form No.</b>	UERL/AIR/D/SRF/11/S-001	<b>Service Request Date</b>	21/11/2023
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-23/11/001	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-23/11/001
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	21/11/2023	<b>Date of Testing</b>	22/11/2023
<b>Stack Sampling Attached to</b>	<b>D.G. Set –1 (1500 KVA)</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	Diesel		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.		Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	400
3.	Stack Area	m <sup>2</sup>	0.1256
4.	Ambient Temperature	°C	29
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	9.6
7.	Exit Gas Flow	Nm <sup>3</sup> /h	3234.8


➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	72	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	19	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	35	<b>50</b>	IS 11255(Part 7)
4.	TVOCs	ppm	2.1	**	GC Method

**Note: 1)** TVOCs Limit Not Defines in GPCB CC&A.,

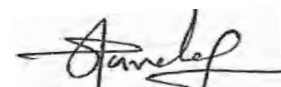
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/23/11/AIL-3/S-002	<b>Report Issue Date</b>	04/12/2023
<b>Service Request form No.</b>	UERL/AIR/D/SRF/11/S-002	<b>Service Request Date</b>	21/11/2023
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-23/11/002	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-23/11/002
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	21/11/2023	<b>Date of Testing</b>	22/11/2023
<b>Stack Sampling Attached to</b>	<b>D.G Set –2 (1500 KVA)</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	Diesel		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	400
3.	Stack Area	m <sup>2</sup>	0.1256
4.	Ambient Temperature	°C	29
5.	Flue Gas Temperature	°C	116
6.	Exit Gas Velocity	m/s	10.7
7.	Exit Gas Flow	Nm <sup>3</sup> /h	3624.0

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	66	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	22	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	38	<b>50</b>	IS 11255(Part 7)
4.	TVOCs	ppm	2.2	**	GC Method

**Note: 1) TVOCs - Limit Not Defines in GPCB CC&A.**

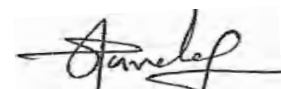
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/23/10/AIL-3/S-001	<b>Report Issue Date</b>	04/11/2023
<b>Service Request form No.</b>	UERL/AIR/D/SRF/10/S-001	<b>Service Request Date</b>	20/10/2023
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-23/10/001	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-23/10/001
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	20/10/2023	<b>Date of Testing</b>	21/10/2023
<b>Stack Sampling Attached to</b>	<b>D.G. Set –1 (1500 KVA)</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	Diesel		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Unit of Measurement	Observation
1.	Stack Height	m 30
2.	Stack Dia	mm 400
3.	Stack Area	m <sup>2</sup> 0.1256
4.	Ambient Temperature	°C 34
5.	Flue Gas Temperature	°C 120
6.	Exit Gas Velocity	m/s 10.9
7.	Exit Gas Flow	Nm <sup>3</sup> /h 3714.6


➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	75	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	21	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	38	<b>50</b>	IS 11255(Part 7)
4.	TVOCs	ppm	2.2	**	GC Method

**Note: 1)** TVOCs Limit Not Defines in GPCB CC&A.,

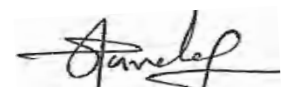
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/23/10/AIL-3/S-002	<b>Report Issue Date</b>	04/11/2023
<b>Service Request form No.</b>	UERL/AIR/D/SRF/10/S-002	<b>Service Request Date</b>	20/10/2023
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-23/10/002	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-23/10/002
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	20/10/2023	<b>Date of Testing</b>	21/10/2023
<b>Stack Sampling Attached to</b>	<b>D.G Set –2 (1500 KVA)</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	Diesel		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	Stack Monitoring Kit, VSS1	<b>Serial Number</b>	467 DTJ 2015
<b>Calibration Date</b>	21/06/2023	<b>Next Calibration Due On</b>	20/06/2024

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	400
3.	Stack Area	m <sup>2</sup>	0.1256
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	121
6.	Exit Gas Velocity	m/s	11.2
7.	Exit Gas Flow	Nm <sup>3</sup> /h	3807.2

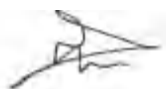
➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	68	<b>150</b>	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	25	<b>100</b>	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	32	<b>50</b>	IS 11255(Part 7)
4.	TVOCs	ppm	2.3	**	GC Method

**Note: 1) TVOCs - Limit Not Defines in GPCB CC&A.**

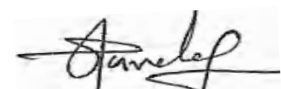
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)



# 2.0 STACK MONITORING REPORT



Period: December - 2023

**FOR**

**M/s. Aarti Industries Limited., (Unit – 3)  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

MoEF&CC (GOI) Recognized Environmental  
Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024)

QC-NABET Accredited EIA & GW  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company



**TEST REPORT  
(STACK MONITORING)**

Test Report No.	UERL-D/23/12/AIL-3/S-003	Report Issue Date	04/01/2023
Service Request form No.	UERL/AIR/D/SRF/12/S-003	Service Request Date	20/12/2023
Sample ID No.	UERL/AIR/D/ID/S-23/12/003	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/12/003
Name & Address of Customer	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
Date of Sampling	20/12/2023	Date of Testing	21/12/2023
Stack Sampling Attached to	<b>Process Stack (Storage Tank)</b>		
Fuel Used	--		
Air Pollution Control Device	<b>Water Scrubber Followed by Carbon Adsorption Tower.</b>		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 2015
Calibration Date	21/12/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	26

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits
1.	TVOCs	ppm	**	**

**Note: 1) Thermopack (TFH):** Not In Operation.  
**2) TVOCs -** Limit Not Defines in GPCB.

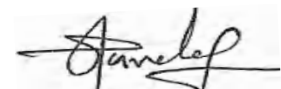
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandell**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

Test Report No.	UERL-D/23/12/AIL-3/S-005	Report Issue Date	04/01/2023
Service Request form No.	UERL/AIR/D/SRF/12/S-005	Service Request Date	20/12/2023
Sample ID No.	UERL/AIR/D/ID/S-23/12/005	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/12/005
Name & Address of Customer	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
Date of Sampling	20/12/2023	Date of Testing	21/12/2023
Stack Sampling Attached to	<b>Vessels &amp; Vacuum Pumps</b>		
Fuel Used	--		
Air Pollution Control Device	<b>Water Scrubber Followed by Carbon Adsorption Tower.</b>		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	<b>UERL-D/AIR/SMK/01</b>		
Instrument Name	<b>Stack Monitoring Kit, VSS1</b>	Serial Number	<b>467 DTJ 2015</b>
Calibration Date	<b>21/06/2023</b>	Next Calibration Due On	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	26

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits
1.	TVOCs	ppm	--	**

**Note: 1) Vessels & Vacuum Pumps:** Not in Operation.  
**2) TVOCs -** Limit Not Defines in GPCB CC&A.

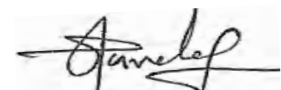
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

# 2.0 STACK MONITORING REPORT



**Period: February - 2024**

**FOR**

**M/s. Aarti Industries Limited., (Unit – 3)  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

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QC-NABET Accredited EIA & GW  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/24/02/AIL-3/S-003	<b>Report Issue Date</b>	05/03/2024
<b>Service Request form No.</b>	UERL/AIR/D/SRF/02/S-003	<b>Service Request Date</b>	15/02/2024
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-24/02/003	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-24/02/003
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	15/02/2024	<b>Date of Testing</b>	16/02/2024
<b>Stack Sampling Attached to</b>	<b>Process Stack (Storage Tank)</b>		
<b>Fuel Used</b>	--		
<b>Air Pollution Control Device</b>	<b>Water Scrubber Followed by Carbon Adsorption Tower.</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>16/02/2024</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	--

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits
1.	TVOCs	ppm	--	**

**Note: 1) Process Stack (Storage Tank):** Not In Operation.

**2) TVOCs -** Limit Not Defines in GPCB.

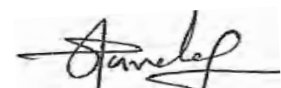
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandell**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/24/02/AIL-3/S-005	<b>Report Issue Date</b>	05/03/2024
<b>Service Request form No.</b>	UERL/AIR/D/SRF/02/S-005	<b>Service Request Date</b>	15/02/2024
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-24/02/005	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-24/02/005
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	15/02/2024	<b>Date of Testing</b>	16/02/2024
<b>Stack Sampling Attached to</b>	<b>Vessels &amp; Vacuum Pumps</b>		
<b>Fuel Used</b>	--		
<b>Air Pollution Control Device</b>	<b>Water Scrubber Followed by Carbon Adsorption Tower.</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL-D/AIR/SMK/01</b>		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

<b>Sr. No.</b>	<b>Description</b>	<b>Unit of Measurement</b>	<b>Observation</b>
1.	Stack Height	m	11
2.	Ambient Temperature	°C	28

➤ **Test Parameter Results**

<b>DISCIPLINE – CHEMICAL TESTING</b>			<b>NAME OF GROUP – ATMOSPHERIC POLLUTION</b>	
<b>Sr. No.</b>	<b>Test Parameter</b>	<b>Unit of Measurement</b>	<b>Result</b>	<b>GPCB Limits</b>
1.	TVOCs	ppm	--	**

**Note: 1) Vessels & Vacuum Pumps:** Not in Operation.

**2) TVOCs -** Limit Not Defines in GPCB CC&A.

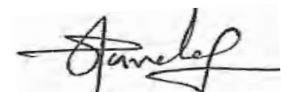
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)



# 2.0 STACK MONITORING REPORT



**Period: January - 2024**

**FOR**

**M/s. Aarti Industries Limited., (Unit – 3)  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

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Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/24/01/AIL-3/S-003	<b>Report Issue Date</b>	05/02/2024
<b>Service Request form No.</b>	UERL/AIR/D/SRF/01/S-003	<b>Service Request Date</b>	18/01/2024
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-24/01/003	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-24/01/003
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	18/01/2024	<b>Date of Testing</b>	19/01/2024
<b>Stack Sampling Attached to</b>	<b>Process Stack (Storage Tank)</b>		
<b>Fuel Used</b>	--		
<b>Air Pollution Control Device</b>	<b>Water Scrubber Followed by Carbon Adsorption Tower.</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>19/01/2024</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	28


➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits
1.	TVOCs	ppm	**	**

**Note: 1) Thermopack (TFH):** Not In Operation.  
**2) TVOCs -** Limit Not Defines in GPCB.

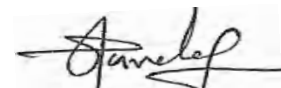
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/24/01/AIL-3/S-005	<b>Report Issue Date</b>	05/02/2024
<b>Service Request form No.</b>	UERL/AIR/D/SRF/01/S-005	<b>Service Request Date</b>	18/01/2024
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-24/01/005	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-24/01/005
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	18/01/2024	<b>Date of Testing</b>	19/01/2024
<b>Stack Sampling Attached to</b>	<b>Vessels &amp; Vacuum Pumps</b>		
<b>Fuel Used</b>	--		
<b>Air Pollution Control Device</b>	<b>Water Scrubber Followed by Carbon Adsorption Tower.</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	28

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits
1.	TVOCs	ppm	--	**

**Note: 1) Vessels & Vacuum Pumps:** Not in Operation.

**2) TVOCs -** Limit Not Defines in GPCB CC&A.

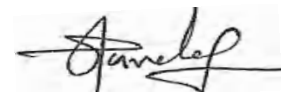
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

# 2.0 STACK MONITORING REPORT



**Period: March - 2024**

**FOR**

**M/s. Aarti Industries Limited., (Unit – 3)  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

MoEF&CC (GOI) Recognized Environmental  
Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024)

QC-NABET Accredited EIA & GW  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/24/03/AIL-3/S-003	<b>Report Issue Date</b>	04/04/2024
<b>Service Request form No.</b>	UERL/AIR/D/SRF/03/S-003	<b>Service Request Date</b>	15/03/2024
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-24/03/003	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-24/03/003
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	15/03/2024	<b>Date of Testing</b>	16/03/2024
<b>Stack Sampling Attached to</b>	<b>Process Stack (Storage Tank)</b>		
<b>Fuel Used</b>	--		
<b>Air Pollution Control Device</b>	<b>Water Scrubber Followed by Carbon Adsorption Tower.</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>16/03/2024</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	--

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits
1.	TVOCs	ppm	--	**

**Note: 1) Process Stack (Storage Tank):** Not In Operation.  
**2) TVOCs -** Limit Not Defines in GPCB.

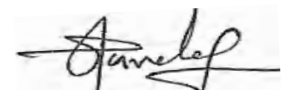
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandell**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/24/03/AIL-3/S-005	<b>Report Issue Date</b>	04/04/2024
<b>Service Request form No.</b>	UERL/AIR/D/SRF/03/S-005	<b>Service Request Date</b>	15/03/2024
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-24/03/005	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-24/03/005
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	15/03/2024	<b>Date of Testing</b>	16/03/2024
<b>Stack Sampling Attached to</b>	<b>Vessels &amp; Vacuum Pumps</b>		
<b>Fuel Used</b>	--		
<b>Air Pollution Control Device</b>	<b>Water Scrubber Followed by Carbon Adsorption Tower.</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	28

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits
1.	TVOCs	ppm	--	**

**Note: 1) Vessels & Vacuum Pumps:** Not in Operation.

**2) TVOCs -** Limit Not Defines in GPCB CC&A.

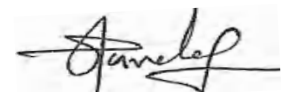
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

# 2.0 STACK MONITORING REPORT



**Period: November - 2023**

**FOR**

**M/s. Aarti Industries Limited., (Unit – 3)  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

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QC-NABET Accredited EIA & GW  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/23/11/AIL-3/S-003	<b>Report Issue Date</b>	04/12/2023
<b>Service Request form No.</b>	UERL/AIR/D/SRF/11/S-003	<b>Service Request Date</b>	21/11/2023
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-23/11/003	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-23/11/003
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	21/11/2023	<b>Date of Testing</b>	22/11/2023
<b>Stack Sampling Attached to</b>	<b>Process Stack (Storage Tank)</b>		
<b>Fuel Used</b>	--		
<b>Air Pollution Control Device</b>	<b>Water Scrubber Followed by Carbon Adsorption Tower.</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>22/11/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	29

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits
1.	TVOCs	ppm	**	**

**Note: 1) Thermopack (TFH):** Not In Operation.  
**2) TVOCs -** Limit Not Defines in GPCB.

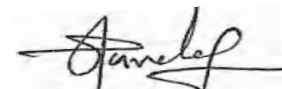
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/23/11/AIL-3/S-005	<b>Report Issue Date</b>	04/12/2023
<b>Service Request form No.</b>	UERL/AIR/D/SRF/11/S-005	<b>Service Request Date</b>	21/11/2023
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-23/11/005	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-23/11/005
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	21/11/2023	<b>Date of Testing</b>	22/11/2023
<b>Stack Sampling Attached to</b>	<b>Vessels &amp; Vacuum Pumps</b>		
<b>Fuel Used</b>	--		
<b>Air Pollution Control Device</b>	<b>Water Scrubber Followed by Carbon Adsorption Tower.</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	29

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits
1.	TVOCs	ppm	--	**

**Note: 1) Vessels & Vacuum Pumps:** Not in Operation.  
**2) TVOCs -** Limit Not Defines in GPCB CC&A.

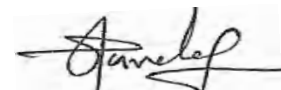
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

# 2.0 STACK MONITORING REPORT



**Period: October - 2023**

**FOR**

**M/s. Aarti Industries Limited., (Unit – 3)  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

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GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company



**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/23/10/AIL-3/S-003	<b>Report Issue Date</b>	04/11/2023
<b>Service Request form No.</b>	UERL/AIR/D/SRF/10/S-003	<b>Service Request Date</b>	20/10/2023
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-23/10/003	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-23/10/003
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	20/10/2023	<b>Date of Testing</b>	21/10/2023
<b>Stack Sampling Attached to</b>	<b>Process Stack (Storage Tank)</b>		
<b>Fuel Used</b>	--		
<b>Air Pollution Control Device</b>	<b>Water Scrubber Followed by Carbon Adsorption Tower.</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/10/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	32

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits
1.	TVOCs	ppm	**	**

**Note: 1) Thermopack (TFH):** Not In Operation.  
**2) TVOCs -** Limit Not Defines in GPCB.

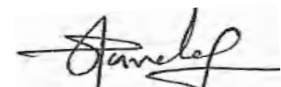
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandell**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	UERL-D/23/10/AIL-3/S-005	<b>Report Issue Date</b>	04/11/2023
<b>Service Request form No.</b>	UERL/AIR/D/SRF/10/S-005	<b>Service Request Date</b>	20/10/2023
<b>Sample ID No.</b>	UERL/AIR/D/ID/S-23/10/005	<b>Field Data Sheet No.</b>	UERL/AIR/D/FDS/S-23/10/005
<b>Name &amp; Address of Customer</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
<b>Date of Sampling</b>	20/10/2023	<b>Date of Testing</b>	21/10/2023
<b>Stack Sampling Attached to</b>	<b>Vessels &amp; Vacuum Pumps</b>		
<b>Fuel Used</b>	--		
<b>Air Pollution Control Device</b>	<b>Water Scrubber Followed by Carbon Adsorption Tower.</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	UERL-D/AIR/SMK/01		
<b>Instrument Name</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number</b>	<b>467 DTJ 2015</b>
<b>Calibration Date</b>	<b>21/06/2023</b>	<b>Next Calibration Due On</b>	<b>20/06/2024</b>

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	32

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION	
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits
1.	TVOCs	ppm	--	**

**Note: 1) Vessels & Vacuum Pumps:** Not in Operation.  
**2) TVOCs -** Limit Not Defines in GPCB CC&A.

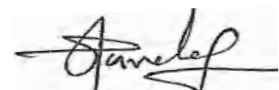
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

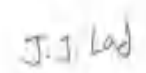
**FORM NO. 37**

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

**Test Report No. UERL/23/12/WAM/AIL/U3/001**

- 1. Name of Industries: M/s. Aarti Industries Ltd. (Dahej SEZ Unit Saffron)**
- 2. Address:** Plot No. Z/111/B, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
- 3. Name of the Department / Plant:** - BRN FLAKER.
- 4. Raw materials, by-products and finished products involved in the process: - Raw Material & Product: - -**
- 5. Particulars of sampling:** - Work Place Monitoring.
- 6. Date of Monitoring:** - 20/12/2023.

Sr. No.	Location/ Operation Mentioned	Identified Contaminant	Sampling Instrument Used	Airborne Contamination		Average	TWA Concentration (As Given in Schedule-II as Per Factory Act.)	Reference Method	Number of Workers Exposed at the Location Being Monitored	Remarks	Signature of Person Taking Samples	Name (In Block Letters)
				Number of Samples	Range							
1	Near BRN Flaker Tank Melting Tank Area.	<b>Total Dust</b>	Handy Sampler	01	0.28	0.28	10 mg/m <sup>3</sup>	NIOSH0600	06	All Process Activities are Not Running Due to Plant Shut Down.		JITEN LAD

**Note:** Limit of TVOCs Not Define in Factory Act.**Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.****Authorized By:****Jaivik S. Tandel**

(Manager - Operations)

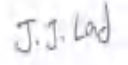
**FORM NO. 37**

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

**Test Report No. UERL/23/12/WAM/AIL/U3/002**

1. **Name of Industries:** M/s. Aarti Industries Ltd. (Dahej SEZ Unit Saffron)
2. **Address:** Plot No. Z/111/B, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
3. **Name of the Department / Plant:** - Extraction Column
4. **Raw materials, by-products and finished products involved in the process:** - Raw Material & Product: - -
5. **Particulars of sampling:** - Work Place Monitoring.
6. **Date of Monitoring:** - 20/12/2023

Sr. No.	Location/ Operation Mentioned	Identified Contaminant	Sampling Instrument Used	Airborne Contamination		Average	TWA Concentration (As Given in Schedule-II as Per Factory Act.)	Reference Method	Number of Workers Exposed at the Location Being Monitored	Remarks	Signature of Person Taking Samples	Name (In Block Letters)
				Number of Samples	Range							
1	Near 50L-2 Phase-Recycle Tank.	<b>TVOC'S (ppm)</b>	Handy Sampler	01	BDL (MDL: 0.1)	BDL (MDL: 0.1)	**	GC Method	06	All Process Activities are Not Running Due to Plant Shut Down.		<b>JITEN LAD</b>

**Note:** Limit of TVOCs Not Define in Factory Act.**Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.****Authorized By:****Jaivik S. Tandel**

(Manager - Operations)

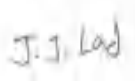
**FORM NO. 37**

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

**Test Report No. UERL/24/01/WAM/AIL/U3/001**

- 1. Name of Industries: M/s. Aarti Industries Ltd. (Dahej SEZ Unit Saffron)**
- 2. Address:** Plot No. Z/111/B, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
- 3. Name of the Department / Plant:** - BRN FLAKER.
- 4. Raw materials, by-products and finished products involved in the process: - Raw Material & Product: - -**
- 5. Particulars of sampling:** - Work Place Monitoring.
- 6. Date of Monitoring:** - 18/01/2024.

Sr. No.	Location/ Operation Mentioned	Identified Contaminant	Sampling Instrument Used	Airborne Contamination		Average	TWA Concentration (As Given in Schedule-II as Per Factory Act.)	Reference Method	Number of Workers Exposed at the Location Being Monitored	Remarks	Signature of Person Taking Samples	Name (In Block Letters)
				Number of Samples	Range							
1	Near BRN Flaker Tank Melting Tank Area.	<b>Total Dust</b>	Handy Sampler	01	0.31	0.31	10 mg/m <sup>3</sup>	NIOSH0600	06	All Process Activities are Not Running Due to Plant Shut Down.		JITEN LAD

**Note:** Limit of TVOCs Not Define in Factory Act.**Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.****Authorized By:****Jaivik S. Tandel**

(Manager - Operations)



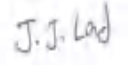
**FORM NO. 37**

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

**Test Report No. UERL/24/01/WAM/AIL/U3/002**

- 1. Name of Industries: M/s. Aarti Industries Ltd. (Dahej SEZ Unit Saffron)**
- 2. Address:** Plot No. Z/111/B, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
- 3. Name of the Department / Plant:** - Extraction Column
- 4. Raw materials, by-products and finished products involved in the process: - Raw Material & Product: - -**
- 5. Particulars of sampling:** - Work Place Monitoring.
- 6. Date of Monitoring:** - 18/01/2024

Sr. No.	Location/ Operation Mentioned	Identified Contaminant	Sampling Instrument Used	Airborne Contamination		Average	TWA Concentration (As Given in Schedule-II as Per Factory Act.)	Reference Method	Number of Workers Exposed at the Location Being Monitored	Remarks	Signature of Person Taking Samples	Name (In Block Letters)
				Number of Samples	Range							
1	Near 50L-2 Phase-Recycle Tank.	<b>TVOC'S (ppm)</b>	Handy Sampler	01	BDL (MDL: 0.1)	BDL (MDL: 0.1)	**	GC Method	06	All Process Activities are Not Running Due to Plant Shut Down.		<b>JITEN LAD</b>

**Note:** Limit of TVOCs Not Define in Factory Act.**Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.****Authorized By:****Jaivik S. Tandel**

(Manager - Operations)

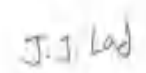
**FORM NO. 37**

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

**Test Report No. UERL/23/11/WAM/AIL/U3/001**

- 1. Name of Industries: M/s. Aarti Industries Ltd. (Dahej SEZ Unit Saffron)**
- 2. Address:** Plot No. Z/111/B, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
- 3. Name of the Department / Plant:** - BRN FLAKER.
- 4. Raw materials, by-products and finished products involved in the process: - Raw Material & Product: - -**
- 5. Particulars of sampling:** - Work Place Monitoring.
- 6. Date of Monitoring:** - 21/11/2023.

Sr. No.	Location/ Operation Mentioned	Identified Contaminant	Sampling Instrument Used	Airborne Contamination		Average	TWA Concentration (As Given in Schedule-II as Per Factory Act.)	Reference Method	Number of Workers Exposed at the Location Being Monitored	Remarks	Signature of Person Taking Samples	Name (In Block Letters)
				Number of Samples	Range							
1	Near BRN Flaker Tank Melting Tank Area.	<b>Total Dust</b>	Handy Sampler	01	0.24	0.24	10 mg/m <sup>3</sup>	NIOSH0600	06	All Process Activities are Not Running Due to Plant Shut Down.		JITEN LAD

**Note:** Limit of TVOCs Not Define in Factory Act.**Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.****Authorized By:****Jaivik S. Tandel**

(Manager - Operations)

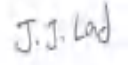
**FORM NO. 37**

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

**Test Report No. UERL/23/11/WAM/AIL/U3/002**

1. **Name of Industries:** M/s. Aarti Industries Ltd. (Dahej SEZ Unit Saffron)
2. **Address:** Plot No. Z/111/B, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
3. **Name of the Department / Plant:** - Extraction Column
4. **Raw materials, by-products and finished products involved in the process:** - Raw Material & Product: - -
5. **Particulars of sampling:** - Work Place Monitoring.
6. **Date of Monitoring:** - 21/11/2023

Sr. No.	Location/ Operation Mentioned	Identified Contaminant	Sampling Instrument Used	Airborne Contamination		Average	TWA Concentration (As Given in Schedule-II as Per Factory Act.)	Reference Method	Number of Workers Exposed at the Location Being Monitored	Remarks	Signature of Person Taking Samples	Name (In Block Letters)
				Number of Samples	Range							
1	Near 50L-2 Phase-Recycle Tank.	<b>TVOC'S (ppm)</b>	Handy Sampler	01	BDL (MDL: 0.1)	BDL (MDL: 0.1)	**	GC Method	06	All Process Activities are Not Running Due to Plant Shut Down.		<b>JITEN LAD</b>

**Note:** Limit of TVOCs Not Define in Factory Act.**Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.****Authorized By:****Jaivik S. Tandel**

(Manager - Operations)

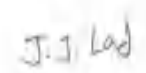
**FORM NO. 37**

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

**Test Report No. UERL/23/10/WAM/AIL/U3/001**

- 1. Name of Industries: M/s. Aarti Industries Ltd. (Dahej SEZ Unit Saffron)**
- 2. Address:** Plot No. Z/111/B, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
- 3. Name of the Department / Plant:** - BRN FLAKER.
- 4. Raw materials, by-products and finished products involved in the process: - Raw Material & Product: - -**
- 5. Particulars of sampling:** - Work Place Monitoring.
- 6. Date of Monitoring:** - 20/10/2023.

Sr. No.	Location/ Operation Mentioned	Identified Contaminant	Sampling Instrument Used	Airborne Contamination		Average	TWA Concentration (As Given in Schedule-II as Per Factory Act.)	Reference Method	Number of Workers Exposed at the Location Being Monitored	Remarks	Signature of Person Taking Samples	Name (In Block Letters)
				Number of Samples	Range							
1	Near BRN Flaker Tank Melting Tank Area.	<b>Total Dust</b>	Handy Sampler	01	0.32	0.32	10 mg/m <sup>3</sup>	NIOSH0600	06	All Process Activities are Not Running Due to Plant Shut Down.		JITEN LAD

**Note:** Limit of TVOCs Not Define in Factory Act.**Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.****Authorized By:****Jaivik S. Tandel**

(Manager - Operations)

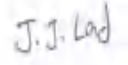
**FORM NO. 37**

(Prescribed under Rule 12-B)

Register containing particulars of monitoring of working environment required under Section 7-A (a)(e).

**Test Report No. UERL/23/10/WAM/AIL/U3/002**

1. **Name of Industries: M/s. Aarti Industries Ltd. (Dahej SEZ Unit Saffron)**
2. **Address:** Plot No. Z/111/B, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
3. **Name of the Department / Plant:** - Extraction Column
4. **Raw materials, by-products and finished products involved in the process: - Raw Material & Product: - -**
5. **Particulars of sampling:** - Work Place Monitoring.
6. **Date of Monitoring:** - 20/10/2023

Sr. No.	Location/ Operation Mentioned	Identified Contaminant	Sampling Instrument Used	Airborne Contamination		Average	TWA Concentration (As Given in Schedule-II as Per Factory Act.)	Reference Method	Number of Workers Exposed at the Location Being Monitored	Remarks	Signature of Person Taking Samples	Name (In Block Letters)
				Number of Samples	Range							
1	Near 50L-2 Phase-Recycle Tank.	<b>TVOC'S (ppm)</b>	Handy Sampler	01	BDL (MDL: 0.1)	BDL (MDL: 0.1)	**	GC Method	06	All Process Activities are Not Running Due to Plant Shut Down.		<b>JITEN LAD</b>

**Note:** Limit of TVOCs Not Define in Factory Act.**Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.****Authorized By:****Jaivik S. Tandel**

(Manager - Operations)



# 1.0 AMBIENT AIR QUALITY MONITORING REPORT



**Period: December - 2023**

**FOR**

**M/s. Aarti Industries Limited., (Unit – 3)  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental  
Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024)

QC-NABET Accredited EIA & GW  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : December 2023

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/23/12/AIL-3/A-001**

**Report Issue Date: 04/01/2024**

**Location : AAQM-1 : Near Main Gate**

**Instrument: RDS (Sr. No. 248 G 2020) & FPS (Sr. No. 434 G 2020)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	06/12/2023	70	25	14.2	17.4
2	07/12/2023	74	27	17.7	21.5
3	13/12/2023	69	20	14.3	20.6
4	14/12/2023	68	23	13.2	15.2
5	21/12/2023	65	22	16.6	20.6
6	22/12/2023	70	24	18.1	22.1
7	26/12/2023	67	21	19.3	21.5
8	27/12/2023	64	19	11.6	18.3
<b>Max.</b>		<b>74</b>	<b>27</b>	<b>19.3</b>	<b>22.1</b>
<b>Min.</b>		<b>64</b>	<b>19</b>	<b>11.6</b>	<b>15.2</b>
<b>98<sup>th</sup> Percentile</b>		<b>73.4</b>	<b>26.7</b>	<b>19.1</b>	<b>22.0</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

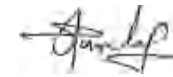
**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : December 2023

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/23/12/AIL-3/A-002**

**Report Issue Date: 04/01/2024**

**Location : AAQM-2 : Near ETP Plant**

**Instrument: RDS (Sr. No. 251 G 2020) & FPS (Sr. No. 437 G 2020)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	06/12/2023	74	28	15.3	19.5
2	07/12/2023	69	25	14.3	17.3
3	13/12/2023	73	22	13.2	18.2
4	14/12/2023	70	25	12.5	16.4
5	21/12/2023	72	24	17.8	24.1
6	22/12/2023	76	25	18.4	22.8
7	26/12/2023	62	21	14.2	17.8
8	27/12/2023	72	24	15.8	21.7
<b>Max.</b>		<b>76</b>	<b>28</b>	<b>18.4</b>	<b>24.1</b>
<b>Min.</b>		<b>62</b>	<b>21</b>	<b>12.5</b>	<b>16.4</b>
<b>98<sup>th</sup> Percentile</b>		<b>75.7</b>	<b>27.6</b>	<b>18.3</b>	<b>23.9</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : December 2023

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/23/12/AIL-3/A-003**

**Report Issue Date: 04/01/2024**

**Location : AAQM-3 : Near DMP Plant**

**Instrument: RDS (Sr. No. 252 G 2020) & FPS (Sr. No. 438 G 2020)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	06/12/2023	67	23	16.3	18.7
2	07/12/2023	66	21	15.2	19.2
3	13/12/2023	70	25	14.7	20.6
4	14/12/2023	64	19	16.1	18.3
5	21/12/2023	71	25	17.2	23.2
6	22/12/2023	68	21	16.4	20.4
7	26/12/2023	60	18	15.6	21.4
8	27/12/2023	69	20	13.1	22.1
<b>Max.</b>		<b>71</b>	<b>25</b>	<b>17.2</b>	<b>23.2</b>
<b>Min.</b>		<b>60</b>	<b>18</b>	<b>13.1</b>	<b>18.3</b>
<b>98<sup>th</sup> Percentile</b>		<b>70.9</b>	<b>25.0</b>	<b>17.1</b>	<b>23.0</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

# 1.0 AMBIENT AIR QUALITY MONITORING REPORT



**Period: February - 2024**

**FOR**

**M/s. Aarti Industries Limited., (Unit – 3)  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
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Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024)

QC-NABET Accredited EIA & GW  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company



**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : February 2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/02/AIL-3/A-001

Report Issue Date: 05/03/2024

Location : AAQM-1 : Near Main Gate

Instrument: RDS (Sr. No. 248 G 2020) & FPS (Sr. No. 434 G 2020)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	06/02/2024	66	19	16.1	21.5
2	07/02/2024	73	22	15.8	22.6
3	15/02/2024	70	24	18.4	24.3
4	16/02/2024	68	20	17.3	22.5
5	20/02/2024	75	24	24.6	26.5
6	21/02/2024	79	29	24.2	28.2
7	27/02/2024	68	23	19.1	24.2
8	28/02/2024	75	26	19.7	23.9
<b>Max.</b>		<b>79</b>	<b>29</b>	<b>24.6</b>	<b>28.2</b>
<b>Min.</b>		<b>66</b>	<b>19</b>	<b>15.8</b>	<b>21.5</b>
<b>98<sup>th</sup> Percentile</b>		<b>78.0</b>	<b>28.6</b>	<b>24.5</b>	<b>28.0</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

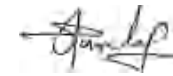
NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : February 2024

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/24/02/AIL-3/A-002**

**Report Issue Date: 05/03/2024**

**Location : AAQM-2 : Near ETP Plant**

**Instrument: RDS (Sr. No. 251 G 2020) & FPS (Sr. No. 437 G 2020)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	06/02/2024	68	22	18.9	25.9
2	07/02/2024	82	30	23.2	23.2
3	15/02/2024	83	28	20.3	25.2
4	16/02/2024	69	24	20.5	23.4
5	20/02/2024	73	30	22.6	25.2
6	21/02/2024	81	32	19.2	25.9
7	27/02/2024	72	25	15.9	20.8
8	28/02/2024	79	29	18.2	22.6
<b>Max.</b>		<b>83</b>	<b>32</b>	<b>23.2</b>	<b>25.9</b>
<b>Min.</b>		<b>68</b>	<b>22</b>	<b>15.9</b>	<b>20.8</b>
<b>98<sup>th</sup> Percentile</b>		<b>82.8</b>	<b>31.7</b>	<b>23.1</b>	<b>25.9</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : February 2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/02/AIL-3/A-003

Report Issue Date: 05/03/2024

Location : AAQM-3 : Near DMP Plant

Instrument: RDS (Sr. No. 252 G 2020) & FPS (Sr. No. 438 G 2020)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	06/02/2024	72	23	22.4	27.4
2	07/02/2024	75	25	21.3	25.5
3	15/02/2024	78	25	23.2	27.4
4	16/02/2024	72	22	21.1	25.5
5	20/02/2024	65	20	22.7	25.3
6	21/02/2024	68	23	20.8	24.8
7	27/02/2024	70	21	17.2	22.9
8	28/02/2024	66	19	17.9	24.3
<b>Max.</b>		<b>78</b>	<b>25</b>	<b>23.2</b>	<b>27.4</b>
<b>Min.</b>		<b>65</b>	<b>19</b>	<b>17.2</b>	<b>22.9</b>
<b>98<sup>th</sup> Percentile</b>		<b>77.8</b>	<b>25.0</b>	<b>23.1</b>	<b>27.4</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

# 1.0 AMBIENT AIR QUALITY MONITORING REPORT



**Period: January - 2024**

**FOR**

**M/s. Aarti Industries Limited., (Unit – 3)  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

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Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : January 2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/01/AIL-3/A-001

Report Issue Date: 05/02/2024

Location : AAQM-1 : Near Main Gate

Instrument: RDS (Sr. No. 248 G 2020) & FPS (Sr. No. 434 G 2020)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	03/01/2024	74	26	15.8	22.7
2	04/01/2024	72	24	14.3	18.4
3	10/01/2024	63	18	18.1	22.2
4	11/01/2024	66	19	16.2	21.5
5	18/01/2024	69	21	14.5	20.2
6	19/01/2024	76	24	16.9	20.8
7	23/01/2024	76	23	15.4	19.1
8	24/01/2024	65	19	16.2	22.3
9	30/01/2024	75	22	11.7	20.6
10	31/01/2024	68	24	15.5	19.8
<b>Max.</b>		<b>76</b>	<b>26</b>	<b>18.1</b>	<b>22.7</b>
<b>Min.</b>		<b>63</b>	<b>18</b>	<b>14.3</b>	<b>18.4</b>
<b>98<sup>th</sup> Percentile</b>		<b>76.0</b>	<b>25.7</b>	<b>17.9</b>	<b>22.6</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

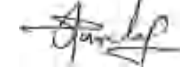
NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)



**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : January 2024

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/24/01/AIL-3/A-002**

**Report Issue Date: 05/02/2024**

**Location : AAQM-2 : Near ETP Plant**

**Instrument: RDS (Sr. No. 251 G 2020) & FPS (Sr. No. 437 G 2020)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	03/01/2024	70	22	18.6	23.4
2	04/01/2024	66	18	17.5	20.2
3	10/01/2024	69	20	16.4	19.8
4	11/01/2024	74	23	15.1	20.2
5	18/01/2024	65	18	14.3	19.7
6	19/01/2024	67	22	15.7	21.2
7	23/01/2024	72	21	16.1	22.3
8	24/01/2024	66	21	15.8	19.5
9	30/01/2024	60	20	13.2	18.1
10	31/01/2024	70	25	17.2	23.5
<b>Max.</b>		<b>74</b>	<b>23</b>	<b>18.6</b>	<b>23.4</b>
<b>Min.</b>		<b>65</b>	<b>18</b>	<b>14.3</b>	<b>19.5</b>
<b>98<sup>th</sup> Percentile</b>		<b>73.7</b>	<b>22.9</b>	<b>18.4</b>	<b>23.2</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : January 2024

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/24/01/AIL-3/A-003**

**Report Issue Date: 05/02/2024**

**Location : AAQM-3 : Near DMP Plant**

**Instrument: RDS (Sr. No. 252 G 2020) & FPS (Sr. No. 438 G 2020)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	03/01/2024	65	19	16.4	20.2
2	04/01/2024	70	22	15.2	19.2
3	10/01/2024	66	21	14.7	18.0
4	11/01/2024	62	20	14.2	18.4
5	18/01/2024	69	16	13.6	17.1
6	19/01/2024	61	18	13.5	19.7
7	23/01/2024	67	24	14.8	18.6
8	24/01/2024	62	23	18.3	22.8
9	30/01/2024	63	25	15.1	21.3
10	31/01/2024	66	20	17.8	22.5
<b>Max.</b>		<b>70</b>	<b>24</b>	<b>18.3</b>	<b>22.8</b>
<b>Min.</b>		<b>61</b>	<b>16</b>	<b>13.5</b>	<b>17.1</b>
<b>98<sup>th</sup> Percentile</b>		<b>69.9</b>	<b>23.9</b>	<b>18.0</b>	<b>22.4</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

# 1.0 AMBIENT AIR QUALITY MONITORING REPORT



**Period: March - 2024**

**FOR**

**M/s. Aarti Industries Limited., (Unit – 3)  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : [response@uerl.in](mailto:response@uerl.in) Website : [www.uerl.in](http://www.uerl.in)

MoEF&CC (GOI) Recognized Environmental  
Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024)

QC-NABET Accredited EIA & GW  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : March 2024

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/24/03/AIL-3/A-001**

**Report Issue Date: 04/04/2024**

**Location : AAQM-1 : Near Main Gate**

**Instrument: RDS (Sr. No. 248 G 2020) & FPS (Sr. No. 434 G 2020)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	01/03/2024	76	25	17.5	25.3
2	02/03/2024	72	31	23.2	28.2
3	08/03/2024	82	28	19.5	21.8
4	09/03/2024	78	33	15.7	24.6
5	18/03/2024	71	24	21.4	20.8
6	19/03/2024	81	27	18.6	23.1
7	27/03/2024	77	31	22.4	27.5
8	28/03/2024	80	33	16.8	19.6
<b>Max.</b>		<b>82</b>	<b>33</b>	<b>23.2</b>	<b>28.2</b>
<b>Min.</b>		<b>71</b>	<b>24</b>	<b>15.7</b>	<b>19.6</b>
<b>98<sup>th</sup> Percentile</b>		<b>81.9</b>	<b>33.0</b>	<b>23.1</b>	<b>28.1</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

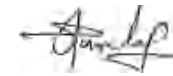
**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : March 2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/03/AIL-3/A-002

Report Issue Date: 04/04/2024

Location : AAQM-2 : Near ETP Plant

Instrument: RDS (Sr. No. 251 G 2020) & FPS (Sr. No. 437 G 2020)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	01/03/2024	74	28	18.3	26.4
2	02/03/2024	78	31	21.2	24.6
3	08/03/2024	71	25	16.2	22.8
4	09/03/2024	69	28	19.7	25.2
5	18/03/2024	75	30	22.2	21.4
6	19/03/2024	78	27	17.3	27.5
7	27/03/2024	72	25	20.5	24.2
8	28/03/2024	70	28	15.3	23.7
<b>Max.</b>		<b>78</b>	<b>31</b>	<b>22.2</b>	<b>27.5</b>
<b>Min.</b>		<b>69</b>	<b>25</b>	<b>15.3</b>	<b>21.4</b>
<b>98<sup>th</sup> Percentile</b>		<b>78.0</b>	<b>30.9</b>	<b>22.1</b>	<b>27.3</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)



**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : March 2024

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/24/03/AIL-3/A-003

Report Issue Date: 04/04/2024

Location : AAQM-3 : Near DMP Plant

Instrument: RDS (Sr. No. 252 G 2020) & FPS (Sr. No. 438 G 2020)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	01/03/2024	67	27	16.4	23.7
2	02/03/2024	72	30	21.3	21.4
3	08/03/2024	69	24	18.6	19.7
4	09/03/2024	75	28	13.8	18.4
5	18/03/2024	71	22	15.7	20.6
6	19/03/2024	67	30	17.3	24.5
7	27/03/2024	76	29	19.2	22.8
8	28/03/2024	73	26	20.6	25.2
<b>Max.</b>		<b>76</b>	<b>30</b>	<b>21.3</b>	<b>25.2</b>
<b>Min.</b>		<b>67</b>	<b>22</b>	<b>13.8</b>	<b>18.4</b>
<b>98<sup>th</sup> Percentile</b>		<b>75.9</b>	<b>30.0</b>	<b>21.2</b>	<b>25.1</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

# 1.0 AMBIENT AIR QUALITY MONITORING REPORT



**Period: November - 2023**

**FOR**

**M/s. Aarti Industries Limited., (Unit – 3)  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental  
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ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : November 2023

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/23/11/AIL-3/A-001**

**Report Issue Date: 04/12/2023**

**Location : AAQM-1 : Near Main Gate**

**Instrument: RDS (Sr. No. 248 G 2020) & FPS (Sr. No. 434 G 2020)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	02/11/2023	69	19	14.2	18.3
2	03/11/2023	74	21	15.3	19.3
3	08/11/2023	68	18	16.8	21.7
4	09/11/2023	66	20	15.9	20.1
5	16/11/2023	72	25	13.8	17.4
6	17/11/2023	64	22	16.2	16.2
7	21/11/2023	70	24	14.6	19.8
8	22/11/2023	65	22	13.2	16.2
9	27/11/2023	72	19	14.6	19.8
10	28/11/2023	68	23	15.4	20.4
<b>Max.</b>		<b>74</b>	<b>25</b>	<b>16.8</b>	<b>21.7</b>
<b>Min.</b>		<b>64</b>	<b>18</b>	<b>13.2</b>	<b>16.2</b>
<b>98<sup>th</sup> Percentile</b>		<b>73.6</b>	<b>24.8</b>	<b>16.7</b>	<b>21.5</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

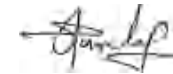
**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : November 2023

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/23/10/AIL-3/A-002**

**Report Issue Date: 04/12/2023**

**Location : AAQM-2 : Near ETP Plant**

**Instrument: RDS (Sr. No. 251 G 2020) & FPS (Sr. No. 437 G 2020)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	02/11/2023	72	20	13.5	20.2
2	03/11/2023	70	25	16.5	20.8
3	08/11/2023	65	21	18.2	22.5
4	09/11/2023	72	24	12.6	18.3
5	16/11/2023	74	26	15.1	20.2
6	17/11/2023	62	19	15.6	19.4
7	21/11/2023	66	16	18.8	23.5
8	22/11/2023	70	18	15.6	19.4
9	27/11/2023	68	26	18.8	23.5
10	28/11/2023	71	20	16.7	22.2
<b>Max.</b>		<b>74</b>	<b>26</b>	<b>18.8</b>	<b>23.5</b>
<b>Min.</b>		<b>62</b>	<b>16</b>	<b>12.6</b>	<b>18.3</b>
<b>98<sup>th</sup> Percentile</b>		<b>73.6</b>	<b>26.0</b>	<b>18.8</b>	<b>23.5</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : November 2023

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/23/10/AIL-3/A-003**

**Report Issue Date: 04/12/2023**

**Location : AAQM-3 : Near DMP Plant**

**Instrument: RDS (Sr. No. 252 G 2020) & FPS (Sr. No. 438 G 2020)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	02/11/2023	65	22	12.4	16.2
2	03/11/2023	60	19	13.1	18.6
3	08/11/2023	58	18	15.3	19.4
4	09/11/2023	63	21	13.6	17.5
5	16/11/2023	68	23	16.2	19.8
6	17/11/2023	67	24	16.8	21.5
7	21/11/2023	60	19	14.1	18.3
8	22/11/2023	62	21	16.8	21.5
9	27/11/2023	69	23	14.1	18.3
10	28/11/2023	66	20	17.1	23.5
<b>Max.</b>		<b>69</b>	<b>24</b>	<b>17.1</b>	<b>23.5</b>
<b>Min.</b>		<b>58</b>	<b>18</b>	<b>12.4</b>	<b>16.2</b>
<b>98<sup>th</sup> Percentile</b>		<b>68.8</b>	<b>23.8</b>	<b>17.0</b>	<b>23.1</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)



# 1.0 AMBIENT AIR QUALITY MONITORING REPORT



**Period: October - 2023**

**FOR**

**M/s. Aarti Industries Limited., (Unit – 3)  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental  
Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024)

QC-NABET Accredited EIA & GW  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : October 2023

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/23/10/AIL-3/A-001**

**Report Issue Date: 04/10/2023**

**Location : AAQM-1 : Near Main Gate**

**Instrument: RDS (Sr. No. 248 G 2020) & FPS (Sr. No. 434 G 2020)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	02/10/2023	70	24	16.5	20.8
2	03/10/2023	66	21	15.4	22.4
3	12/10/2023	61	23	13.6	18.7
4	13/10/2023	63	20	14.2	21.2
5	17/10/2023	64	18	12.3	16.7
6	18/10/2023	71	24	11.8	17.6
7	26/10/2023	68	22	14.5	19.7
8	27/10/2023	72	20	17.1	16.3
9	30/10/2023	69	19	16.3	21.4
10	31/10/2023	75	25	15.2	20.4
<b>Max.</b>		<b>75</b>	<b>25</b>	<b>17.1</b>	<b>22.4</b>
<b>Min.</b>		<b>61</b>	<b>18</b>	<b>11.8</b>	<b>16.3</b>
<b>98<sup>th</sup> Percentile</b>		<b>74.5</b>	<b>24.8</b>	<b>17.0</b>	<b>22.2</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

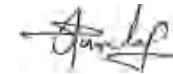
**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : October 2023

**DISCIPLINE: CHEMICAL TESTING**

**NAME OF GROUP: ATMOSPHERIC POLLUTION**

**Test Report No: UERL/23/10/AIL-3/A-002**

**Report Issue Date: 04/10/2023**

**Location : AAQM-2 : Near ETP Plant**

**Instrument: RDS (Sr. No. 251 G 2020) & FPS (Sr. No. 437 G 2020)**

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	02/10/2023	65	20	17.2	21.4
2	03/10/2023	68	22	15.6	20.4
3	12/10/2023	62	18	13.2	21.7
4	13/10/2023	58	21	16.7	19.4
5	17/10/2023	66	20	17.3	17.6
6	18/10/2023	65	17	14.7	18.3
7	26/10/2023	63	21	12.3	16.5
8	27/10/2023	64	19	14.6	23.1
9	30/10/2023	70	23	18.1	22.6
10	31/10/2023	68	21	17.3	21.8
<b>Max.</b>		<b>70</b>	<b>23</b>	<b>18.1</b>	<b>23.1</b>
<b>Min.</b>		<b>58</b>	<b>17</b>	<b>12.3</b>	<b>16.5</b>
<b>98<sup>th</sup> Percentile</b>		<b>69.6</b>	<b>22.8</b>	<b>18.0</b>	<b>23.0</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

**NOTE:**1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS:** National Ambient Air Quality Monitoring Standard.3) **RDS:** Respirable Dust Sampler & 4) **FPS:** Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)

**Ambient Air Quality Monitoring Data**  
**For M/s. AARTI INDUSTRIES LIMITED. (Dahej SEZ Unit-3 Saffron)**  
**Plot No. Z/111/B, Dahej SEZ Part -II, Dahej 392130, Tal. Vagara, Dist. Bharuch, Gujarat.**  
**By – UniStar Environment and Research Labs Pvt. Ltd.**

Month : October 2023

DISCIPLINE: CHEMICAL TESTING

NAME OF GROUP: ATMOSPHERIC POLLUTION

Test Report No: UERL/23/10/AIL-3/A-003

Report Issue Date: 04/10/2023

Location : AAQM-3 : Near DMP Plant

Instrument: RDS (Sr. No. 252 G 2020) & FPS (Sr. No. 438 G 2020)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	Sox µg/m <sup>3</sup>	NOx µg/m <sup>3</sup>
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	02/10/2023	69	22	15.3	20.2
2	03/10/2023	64	18	13.6	19.5
3	12/10/2023	63	22	15.4	17.7
4	13/10/2023	68	21	17.3	22.1
5	17/10/2023	62	23	13.6	18.5
6	18/10/2023	69	20	15.2	16.8
7	26/10/2023	71	24	12.4	20.3
8	27/10/2023	65	19	14.6	21.4
9	30/10/2023	70	23	13.5	19.2
10	31/10/2023	72	24	15.8	22.6
<b>Max.</b>		<b>72</b>	<b>24</b>	<b>17.3</b>	<b>22.6</b>
<b>Min.</b>		<b>62</b>	<b>18</b>	<b>12.4</b>	<b>16.8</b>
<b>98<sup>th</sup> Percentile</b>		<b>71.8</b>	<b>24.0</b>	<b>17.0</b>	<b>22.5</b>
<b>Permissible Limit (As Per NAAQMS)</b>		<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

NOTE:1).Ambient Air Monitoring carried out for 24 hours time period , 2). **NAAQMS**: National Ambient Air Quality Monitoring Standard.3) **RDS**: Respirable Dust Sampler & 4) **FPS**: Fine Particulate Dust Sampler.

Checked By:



Nikunj D. Patel  
(Chemist)

Authorized By:



Jaivik S. Tandel  
(Manager - Operations)



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

30<sup>TH</sup> MARCH, 2022

To,  
**AARTI INDUSTRIES LIMITED (UNIT-3)**  
PLOT NO. Z/111/B,  
DAHEJ SEZ II, TAL: VAGRA,  
DIST: BHARUCH, DAHEJ.

**Sub: Membership Certificate for Common Incineration Facility.**

Dear Sir,

We hereby certify that you have become member for the common incineration facility of **BEIL INFRASTRUCTURE LIMITED** (FORMERLY KNOWN AS BHARUCH ENVIRO INFRASTRUCTURE LTD), at GIDC, Ankleshwar. You have booked quantity of **49 MT/Year**. You have paid Registration fees for common incinerator membership. Your Membership No. is **CI/BD/123**.

Waste will be accepted after submitting valid authorization of GPCB.

Thanking you,

Yours faithfully,  
**For, BEIL INFRASTRUCTURE LIMITED**

  
AUTHORISED SIGNATORY





30<sup>TH</sup> MARCH, 2022

TO,  
**AARTI INDUSTRIES LIMITED (UNIT-3)**  
PLOT NO. Z/111/B,  
DAHEJ SEZ II, TAL: VAGRA,  
DIST: BHARUCH, DAHEJ.

**Sub: Membership Certificate for Common Solid Waste Disposal Facility.**

Dear Sir,

We hereby certify that you have become member for the common Solid/Hazardous waste disposal facility developed by **BEIL INFRASTRUCTURE LIMITED** (Formerly known as Bharuch Enviro Infrastructure Ltd), at GIDC, Dahej. You have booked solid waste quantity of **353 MT/Year**. You have also paid your capacity commitment charges. Your Membership No. is **OTH/986**.

Waste will be accepted after submitting valid authorization of GPCB.

- 1) **Total TSDF Capacity of BEIL Dahej:** 1900000 MT
- 2) **Total Consented Capacity:** 1900000 MT
- 3) **Total Occupied Capacity:** 830992 MT
- 4) **Spare Capacity:** 1069008 MT

Thanking you,

Yours faithfully,

**For, BEIL Infrastructure Limited**  
**(Formerly Known as Bharuch Enviro Infrastructure Ltd)**

**AUTHORISED SIGNATORY**





**DETOX INDIA**  
operated by  **VEOLIA**

## Certificate

Certificate No.: 130000485

*To Whomsoever it may concern*

*This is to certify that*

**AARTI INDUSTRIES LTD. (U-III)**

PLOT NO:Z/111/B,  
SEZ II DAHEJ,  
TAL:VAGRA,

**BHARUCH**  
*is a valid member of*

**DETOX INDIA PRIVATE LIMITED**

*for*

***Integrated Common Hazardous Waste Management Facility***

*This membership is valid for a period of*

*5 Years*

***Date of Issue : 11.02.2021***

***Date of Expiration : 10.02.2026***

***Place of Issue : Surat***

***For, Detox India Private Limited***

***Director***

SUBJECT TO SURAT JURISDICTION

**Detox India Private Limited**

(Formerly : Ankleshwar Cleaner Process Technology Centre Pvt. Ltd.)

R.S.No. : 418, VIII : Juna Kataria, B/h. Gail Pump Station, Samakhiali-Radhanpur Highway, Tal. : Bhachau, Dist. : Kutch-370 150 (Guj.) INDIA

Corporate Office : Detox House, Opp. Gujarat Samachar Press, Udhna Darwaja, Ring Road, Surat-395 002 (Guj.) INDIA

Ph. : +91 261 2351248, 2346181, E-mail : info@detoxindia.com | CIN : U90000GJ2010PTC060122



**MEDICAL CHECK UP DETAILS**

COMPANY NAME : **Aarti Industries Ltd- Dahej (Saffron Employee)** DATE: **14-03-2024**  
 CONTRACTOR NAME : - PLANT : -  
 EMPLOYEE NAME : **Jatinkumar Prajapati**  
 BIRTH DATE : **12-10-1994** AGE : **29 Yrs**  
 SEX : **Male** EMPLOYEE ID : **59000113**  
 DEPARTMENT : **Safety** DESIGNATION : **Senior Fireman**

PULSE : **80.00 /min** BP : **130/73 mmhg**  
 PRESENT COMPLAINT : **NAD** PERSONAL HISTORY : **NAD**  
 OCCUPATIONAL HISTORY : **NAD** ALLERGIC TO : **NAD**  
 FAMILY HISTORY : **NAD** PAST HISTORY : **NAD**  
 ADDICTION : **NAD**  
 HEIGHT : **166.00 cm** WEIGHT : **71.00 kg** BODY MASS INDEX (BMI) : **25.76 Kg/m<sup>2</sup>**

<p>History          chief complain: <b>NAD</b>          PERSONAL HISTORY: <b>NAD</b>          Mother Father or Siblings: <b>NAD</b>          Allergy Astham Surgery Infections          trauma thyroid: <b>NAD</b></p>	<p>Systemic Examination          RS: <b>NAD</b>          CVS: <b>NAD</b>          CNS: <b>NAD</b>          Abdomen: <b>NAD</b></p>	<p>CBC          Hb: <b>13.7 g/dl</b>          TOTAL WBC COUNT: <b>5890 /cmm</b>          PLATELET COUNT: <b>235000 /cmm</b>          PERIPHERAL SMEAR STUDY: <b>RBC are normochromic normocytic.No premature cells are seen.Platelets are adequate on smear.Malarial parasite is not detected.</b></p>
<p>LFT          SGOT: <b>37.01 U/L</b>          SGPT: <b>26.65 U/L</b>          DIRECT BILIRUBIN: <b>0.3 mg/dl</b>          INDIRECT BILIRUBIN: <b>0.2 mg/dl</b>          TOTAL BILIRUBIN: <b>0.5 mg/dl</b></p>	<p>RFT          CREATININE: <b>1.45 mg/dl</b>          URIC ACID: <b>4.21 mg/dl</b>          ALKALINE PHOSPHATASE: <b>95.5 U/L</b></p>	<p>RBS          RBS: <b>87 mg/dl</b></p>
<p>AUDIOMETRY          AUDIOMETRY: <b>NORMAL</b></p>	<p>X-RAY CHEST PA          X-RAY CHEST PA: <b>NORMAL</b></p>	<p>ECG          ECG: <b>NORMAL</b></p>
<p>PFT          PFT: <b>NORMAL</b></p>		

REMARKS : -  
 ADVICE : -  
 STATUS : **FIT TO WORK**





295

3

**MEDICAL EXAMINATION REPORT**

**Aarti Industries Ltd**

Date: 13-3-24

<b>NAME:</b> Jatinkumar Prajapati	
<b>EMPLOYEE ID:</b>	/59000113
<b>IDENTIFICATION MARK:</b>	Male on the Rt. side of Neck.

**GENERAL EXAMINATION**

Height(cms):	166	
Weight(kgs):	71 kg	
Blood pressure(mmHg):	130/73 wty.	
Pulse:	80/min	
Age:	29	
Any complain:	No	
Past history:	No	
Family history:	No	
Occupational history:	NAD	
Any allergy:	None	
Any addiction:	None	
Acrophobia:	} NAD	
Claustrophobia:		
CNS examination:		
Respiratory examination:		
Abdomen examination:		
Private parts examination:		
CVS examination:		
Rhomberg:		
Audiometry:		
PFT:		
	<b>Right</b>	<b>Left</b>
Distance vision	6/6	6/6
Near vision	M/G	M/G
Color vision	Normal	

X-ray  
✓

**Sign & Stamp**

*Parth Modi*  
**DR. PARTH MODI**  
 M.B.B.S.; MD; PGCIH  
 Reg. No. : G-33388  
 Consultant Industrial Phys...





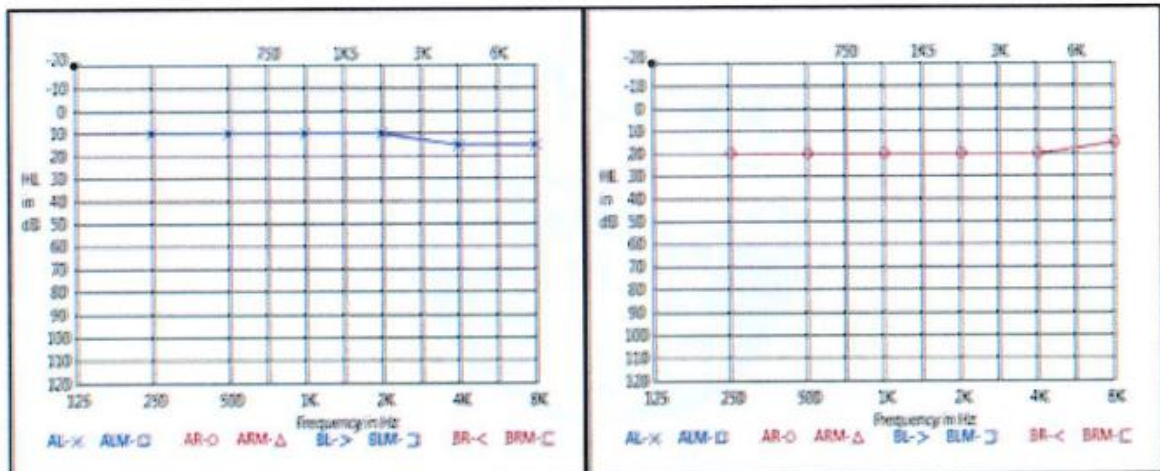
# AUDIOGRAM

Client Name :- Jatinkumar Prajapati

Date:-13/03/2024

Sr. No.:- 295

Address:-



Interpretation:-Bilateral Hearing Sensitivity Within Normal Limits



DR.CHIRAG VAGHELA

M.B.B.S, M.S (ENT)





ID : 295

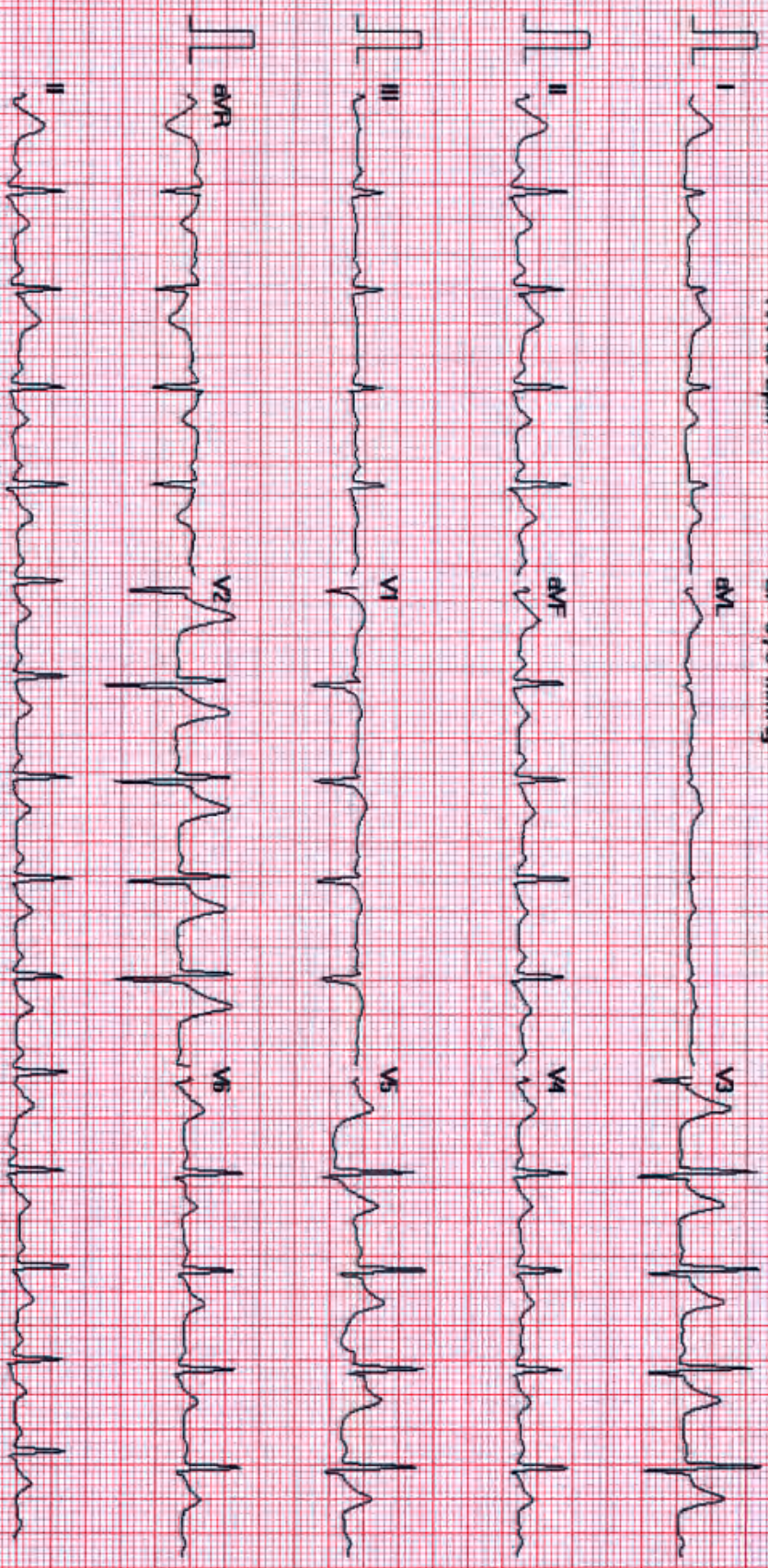
Name : Jatin Kumar Prajapati

(29 yrs Male)

Date : 13-03-2024

HR 99 bpm

BP 0/0 mmHg



Interval (msec)

PQ	95
QRS	136
QT	305
QTc	426

Axis (deg/eeg)

Axis P	83
Axis QRS	72
Axis T	53

Comment:

Referred By:

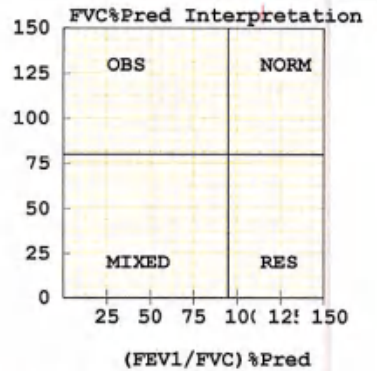
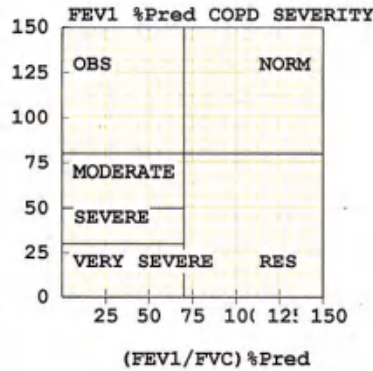
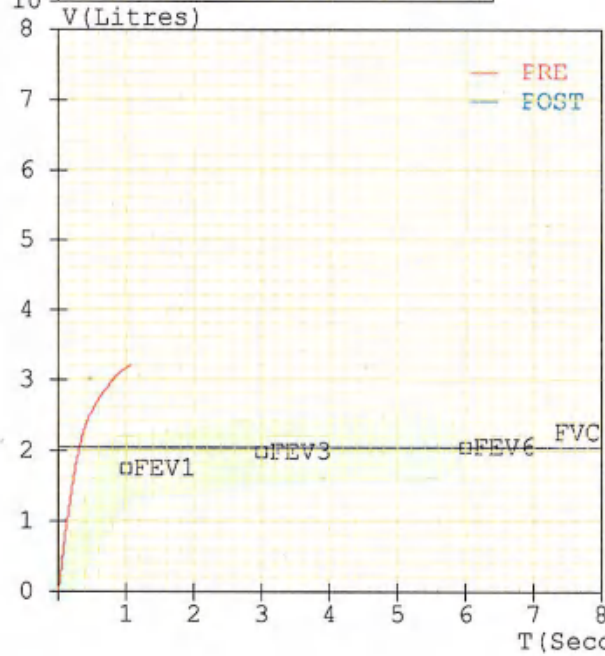
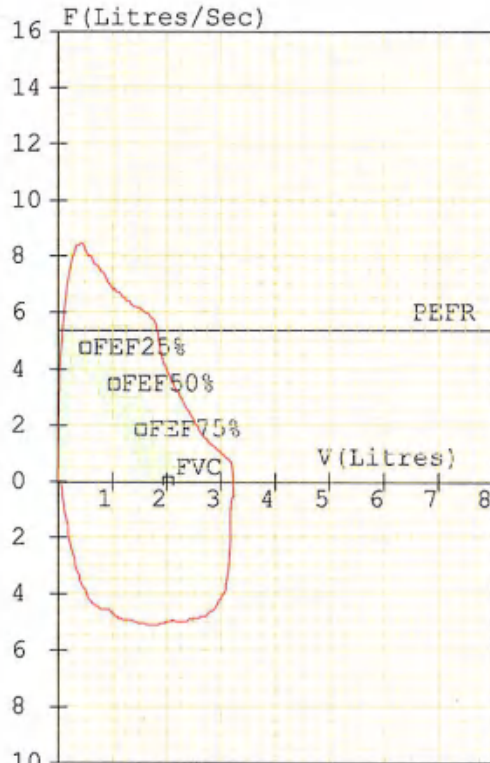
Consultant:

DR. CHINMAY JAIN  
 M.B.B.S  
 REGD. NO. G-64295



Patient: PRAJAPATI JATINKUMAR  
 Refd. By:  
 Med. Eqns: RECORDERS  
 Date: 13-Mar-2024 11:43 AM

Age : 29 Years Gender : Male  
 Height : 166 Cms Smoker : No  
 Weight : 71 Kgs Eth. Corr: 60  
 ID: AR295 Temp :



**Spirometry (FVC Results)**

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	02.04	03.22	158	----	---	---
FEV1 (L)	01.74	03.16	182	----	---	---
FEV1/FVC (%)	85.29	98.14	115	----	---	---
FEF25-75 (L/s)	02.62	04.79	183	----	---	---
PEFR (L/s)	05.37	08.35	155	----	---	---
FIVC (L)	-----	03.15	---	----	---	---
FEV.5 (L)	-----	02.56	---	----	---	---
FEV3 (L)	01.98	03.22	163	----	---	---
PIFR (L/s)	-----	05.10	---	----	---	---
FEF75-85 (L/s)	-----	01.84	---	----	---	---
FEF.2-1.2 (L/s)	04.46	07.35	165	----	---	---
FEF 25% (L/s)	04.78	07.31	153	----	---	---
FEF 50% (L/s)	03.51	05.91	168	----	---	---
FEF 75% (L/s)	01.87	02.47	132	----	---	---
FEV.5/FVC (%)	-----	79.50	---	----	---	---
FEV3/FVC (%)	97.06	100.00	103	----	---	---
FET (Sec)	-----	01.09	---	----	---	---
ExptTime (Sec)	-----	00.04	---	----	---	---
Lung Age (Yrs)	029	005	017	----	---	---
FEV6 (L)	02.04	-----	---	----	---	---
FIF25% (L/s)	-----	04.81	---	----	---	---
FIF50% (L/s)	-----	05.07	---	----	---	---
FIF75% (L/s)	-----	04.62	---	----	---	---

**Pre Test COPD Severity**

Test within normal limits

**DR. CHIRAG VALERA**  
 M.B.B.S.  
 REGD.No. G-54295

**Pre Medication Report Indicates**

Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >80.

**NAME : Jatinkumar Prajapati**

**ID : 295**

**DATE : 13-Mar-24**

## X-RAY REPORT

### X-RAY CHEST (PA VIEW):

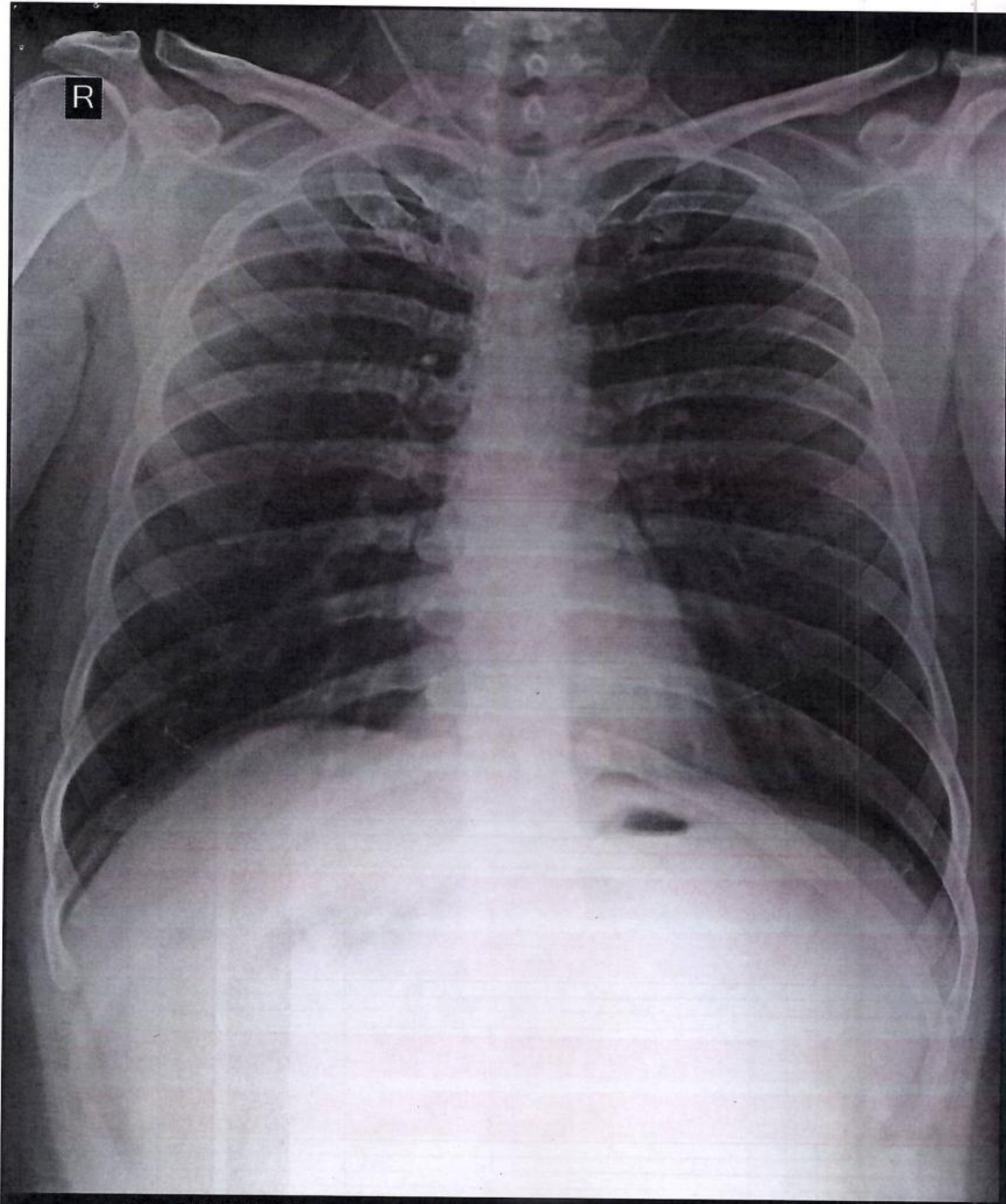
- Both lungs fields appear normal.
- No evidence of Koch's lesion, collapse or consolidation.
- Cardiac size, shape and borders appear within normal limits.
- Both costo-phrenic angles appear normal – s/o no evidence of pleural effusion.
- Both domes, mediastinum and bony thoracic cage outlines appear normal.



Dr. VIKRAM SHAH  
(MD, RADIOLOGY)







295 JATINKUMAR PRAJAPATI 29YRS 13032457 CHEST PA 13-03-2024  
CHIRAG DIGITAL X-RAY SERVICE, MO: 8780803818



**TEST REPORT**

**Name** : Mr. Jatinkumar Prajapati 295  
**Age/Sex** : 29 Years / Male  
**Ref. By** :  
**Client Name** :  
**Employee ID** : 59000113

**Reg. No** : 403101128  
**Reg. Date** : 14-Mar-2024 05:09 PM  
**Collected On** : 14-Mar-2024 05:17 PM  
**Printed On** :  
**Department** : Sr Fireman

**Abnormal Result(s) Summary**

Test Name	Result Value	Unit	Reference Range
<b>CBC</b>			
Hematocrit (Electrical Impedance)	<b>46.20</b>	%	47 - 52
RBC Count (Electrical Impedance)	<b>4.50</b>	million/cm m	4.7 - 6.0
MCHC (Calculated)	<b>29.7</b>	%	30 - 35
MPV	<b>11.4</b>	fL	7.4 - 10.4

Abnormal Result(s) Summary End

This is an Electronically Authenticated Report.







**TEST REPORT**

**Name** : Mr. Jatinkumar Prajapati 295  
**Age/Sex** : 29 Years / Male  
**Ref. By** :  
**Client Name** :  
**Employee ID** : 59000113

**Reg. No** : 403101128  
**Reg. Date** : 14-Mar-2024 05:09 PM  
**Collected On** : 14-Mar-2024 05:17 PM  
**Printed On** : 15-Mar-2024 04:09 PM  
**Department** : Sr Fireman

Parameter	Results	Unit	Biological Ref. Interval
-----------	---------	------	--------------------------

**COMPLETE BLOOD COUNT (CBC)**

Hemoglobin (SLS method)	13.7	g/dL	13.0 - 18.0
Hematocrit (Electrical Impedance)	L 46.20	%	47 - 52
RBC Count (Electrical Impedance)	L 4.50	million/cmm	4.7 - 6.0
MCV (Calculated)	102.7	fL	78 - 110
MCH (Calculated)	30.4	Pg	27 - 31
MCHC (Calculated)	L 29.7	%	30 - 35
RDW (Calculated)	13.8	%	11.5 - 14.0
WBC Count (Flowcytometry)	5890	/cmm	4000 - 10500
Platelet Count	235000	/cmm	150000 - 450000
MPV	H 11.4	fL	7.4 - 10.4

**DIFFERENTIAL WBC COUNT**

	[ % ]	EXPECTED VALUES	[ Abs ]	EXPECTED VALUES
Neutrophils (%)	56 %	42.0 - 75.2	3298 /cmm	
Lymphocytes (%)	38 %	20 - 45	2238 /cmm	
Eosinophils (%)	2 %	1 - 4	118 /cmm	
Monocytes (%)	4 %	2 - 8	236 /cmm	
Basophils (%)	0 %	0 - 1	0 /cmm	

**PERIPHERAL SMEAR STUDY**

RBC Morphology RBC are normochromic normocytic.  
WBC Morphology No premature cells are seen.  
Platelets Platelets are adequate on smear.  
Parasites Malarial parasite is not detected.

This is an Electronically Authenticated Report.

**Dr.K.R Prajapati**  
**MD.Patho (G-28517)**







**TEST REPORT**

**Name** : Mr. Jatinkumar Prajapati 295  
**Age/Sex** : 29 Years / Male  
**Ref. By** :  
**Client Name** :  
**Employee ID** : 59000113

**Reg. No** : 403101128  
**Reg. Date** : 14-Mar-2024 05:09 PM  
**Collected On** : 14-Mar-2024 05:17 PM  
**Printed On** : 15-Mar-2024 04:09 PM  
**Department** : Sr Fireman

Parameter	Result	Unit	Biological Ref. Interval
<b>Random Blood Sugar (RBS)</b> <i>Glucose Oxidase-Peroxidase</i>	87	mg/dL	70 - 140
<b>Creatinine</b> <i>ENZYMATIC</i>	1.45	mg/dL	0.8 - 1.5
<b>Uric Acid</b> <i>Uricase Colorimetry</i>	4.21	mg/dL	3.5 - 8.5
<b>UREA</b> <i>Urease end point reaction</i>	33.02	mg/dL	16.0 - 43.0

**LIVER FUNCTION TEST**

<b>SGOT</b> <i>Multipoint-Rate/Uv With P-5-P</i>	37.01	U/L	17 - 59
<b>SGPT</b> <i>Multipoint-Rate/Uv With P-5-P</i>	26.65	U/L	0 - 50
<b>Total Bilirubin</b> <i>Colorimetric method</i>	0.5	mg/dL	0.1 - 1.4
<b>Conjugated Bilirubin</b> <i>Sulph acid dpl/caff-benz</i>	0.3	mg/dL	0.0 - 0.3
<b>Unconjugated Bilirubin</b> <i>Sulph acid dpl/caff-benz</i>	0.2	mg/dL	0.0 - 1.1
<b>Alakaline Phosphatase</b> <i>P-nitrophenyl phosphatase-AMP Buffer, Multiple-point rate</i>	95.5	U/L	38 - 126
<b>GGT</b> <i>G-glutamyl-p-nitroanilide</i>	17.12	U/L	15 - 73

This is an Electronically Authenticated Report.

**Dr.K.R Prajapati**  
**MD.Patho (G-28517)**





**TEST REPORT**

Name : Mr. Jatinkumar Prajapati 295  
Age/Sex : 29 Years / Male  
Ref. By :  
Client Name :  
Employee ID : 59000113

Reg. No : 403101128  
Reg. Date : 14-Mar-2024 05:09 PM  
Collected On : 14-Mar-2024 05:17 PM  
Printed On : 15-Mar-2024 04:09 PM  
Department : Sr Fireman

Parameter	Result	Unit	Biological Ref. Interval
-----------	--------	------	--------------------------

**URINE ROUTINE EXAMINATION**

**PHYSICAL EXAMINATION**

Quantity	20 cc		
Colour	Dark Yellow		
Clarity	Clear		

**CHEMICAL EXAMINATION (BY REFLECTANCE PHOTOMETRIC)**

pH	6.0		4.6 - 8.0
Sp. Gravity	1.005		1.001 - 1.035
Protein	Nil		
Glucose	Nil		
Ketone Bodies	Nil		
Urobilinogen	Nil		
Bilirubin	Nil		
Nitrite	Nil		
Leucocytes	Nil		
Blood	Nil		

**MICROSCOPIC EXAMINATION (MANUAL BY MICROSCOPY)**

Leucocytes (Pus Cells)	1 - 3/hpf		
Erythrocytes (Red Cells)	Nil		
Epithelial Cells	Occasional	/hpf	
Amorphous Material	Nil		
Casts	Nil		
Crystals	Nil		
Bacteria	Nil		
Fungus	Nil		
Spermatozoa	Nil		

----- End Of Report -----

This is an Electronically Authenticated Report.

**Dr.K.R Prajapati**  
**MD.Patho (G-28517)**





# ATHHARV™ TOXSCREEN

Industrial Health & Toxic Chemicals Testing

## MEDICAL CHECK UP DETAILS

COMPANY NAME : Aarti Industries Ltd-Dahej (Saffron Contract) DATE: 14-03-2024  
CONTRACTOR NAME : MEENA ENTERPRISES - PLANT : -  
(Saffron)  
EMPLOYEE NAME : GOHIL AJAYKUMAR  
BIRTH DATE : AGE : 25 Yrs  
SEX : Male EMPLOYEE ID : 9300500014  
DEPARTMENT : Helper DESIGNATION : Helper

PULSE : 86.00 /min BP : 128/72 mmhg  
PRESENT COMPLAINT : NAD PERSONAL HISTORY : NAD  
OCCUPATIONAL HISTORY : NAD ALLERGIC TO : NAD  
FAMILY HISTORY : NAD PAST HISTORY : NAD  
ADDICTION : NAD  
HEIGHT : 165.00 cm WEIGHT : 72.00 kg BODY MASS INDEX (BMI) : 26.44 Kg/m<sup>2</sup>

<b>History</b> chief complain: <b>NAD</b> PERSONAL HISTORY: <b>NAD</b> Mother Father or Siblings: <b>NAD</b> Allergy Astham Surgery Infections trauma thyroid: <b>NAD</b>	<b>Systemic Examination</b> RS: <b>NAD</b> CVS: <b>NAD</b> CNS: <b>NAD</b> Abdomen: <b>NAD</b>	<b>CBC</b> Hb: <b>14.6 g/dl</b> TOTAL WBC COUNT: <b>6160 /cmm</b> PLATELET COUNT: <b>303000 /cmm</b> PERIPHERAL SMEAR STUDY: <b>RBC are normochromic normocytic.No premature cells are seen.Platelets are adequate on smear.Malarial parasite is not detected.</b>
<b>LFT</b> SGOT: <b>78.93 U/L</b> SGPT: <b>52.11 U/L</b> ALKALINE PHOSPHATASE: <b>127.1 U/L</b> DIRECT BILIRUBIN: <b>0.3 mg/dl</b> INDIRECT BILIRUBIN: <b>0.2 mg/dl</b> TOTAL BILIRUBIN: <b>0.5 mg/dl</b>	<b>RFT</b> CREATININE: <b>1.48 mg/dl</b> URIC ACID: <b>6.63 mg/dl</b> UREA: <b>24.17 mg/dl</b>	<b>RBS</b> RBS: <b>76 mg/dl</b>
<b>AUDIOMETRY</b> AUDIOMETRY: <b>NORMAL</b>	<b>X-RAY CHEST PA</b> X-RAY CHEST PA: -	<b>ECG</b> ECG: <b>NORMAL</b>
<b>PFT</b> PFT: <b>NORMAL</b>		

REMARKS : -  
ADVICE : -  
STATUS : **FIT TO WORK**







1044

3

**MEDICAL EXAMINATION REPORT**

**Aarti Industries Ltd**

Date: 14/03/24.

NAME: GOHIL AJAYKUMAR (MEENA ENTERPRISES - (Saffron))	
EMPLOYEE ID:	9300500014
IDENTIFICATION MARK:	Cut marks b/w two Eyebrows.

**GENERAL EXAMINATION**

Height(cms):	165	
Weight(kgs):	72.8 kg	
Blood pressure(mmHg):	123/72 mmHg	
Pulse:	86/min	
Age:	24	
Any complain:	No	
Past history:	No	
Family history:	No	
Occupational history:	NAD	
Any allergy:	None	
Any addiction:	None	
Acrophobia:	} NAD	
Claustrophobia:		
CNS examination:		
Respiratory examination:		
Abdomen examination:		
Private parts examination:	} NAD	
CVS examination:		
Rhomberg:	NAD	
Audiometry:		
PFT:		
	Right	Left
Distance vision	6/6	6/6
Near vision	N/6	N/6
Color vision	Normal	

EL

**Sign & Stamp**

*Parth Modi*  
**DR. PARTH MODI**  
 M.B.B.S.; MD; PGCIH  
 Reg. No. : G-33388  
 Consultant Industrial Physician



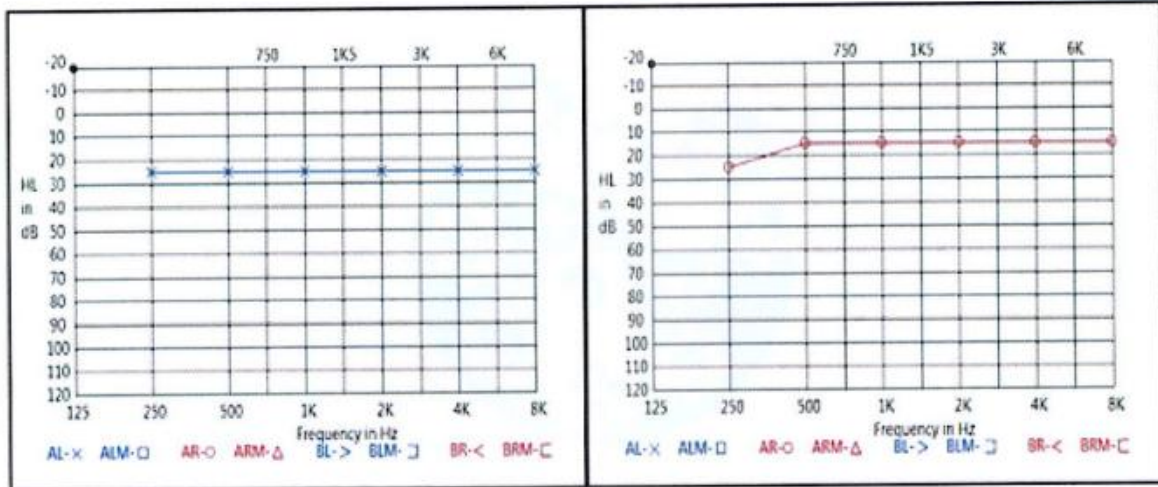
# AUDIOGRAM

Client Name :- GOHIL AJAYKUMAR

Date:-14/03/2024

Sr. No.:- 1044

Address:-



Interpretation:-Bilateral Hearing Sensitivity Within Normal Limits



DR.CHIRAG VAGHELA

M.B.B.S, M.S (ENT)





ID : 1044

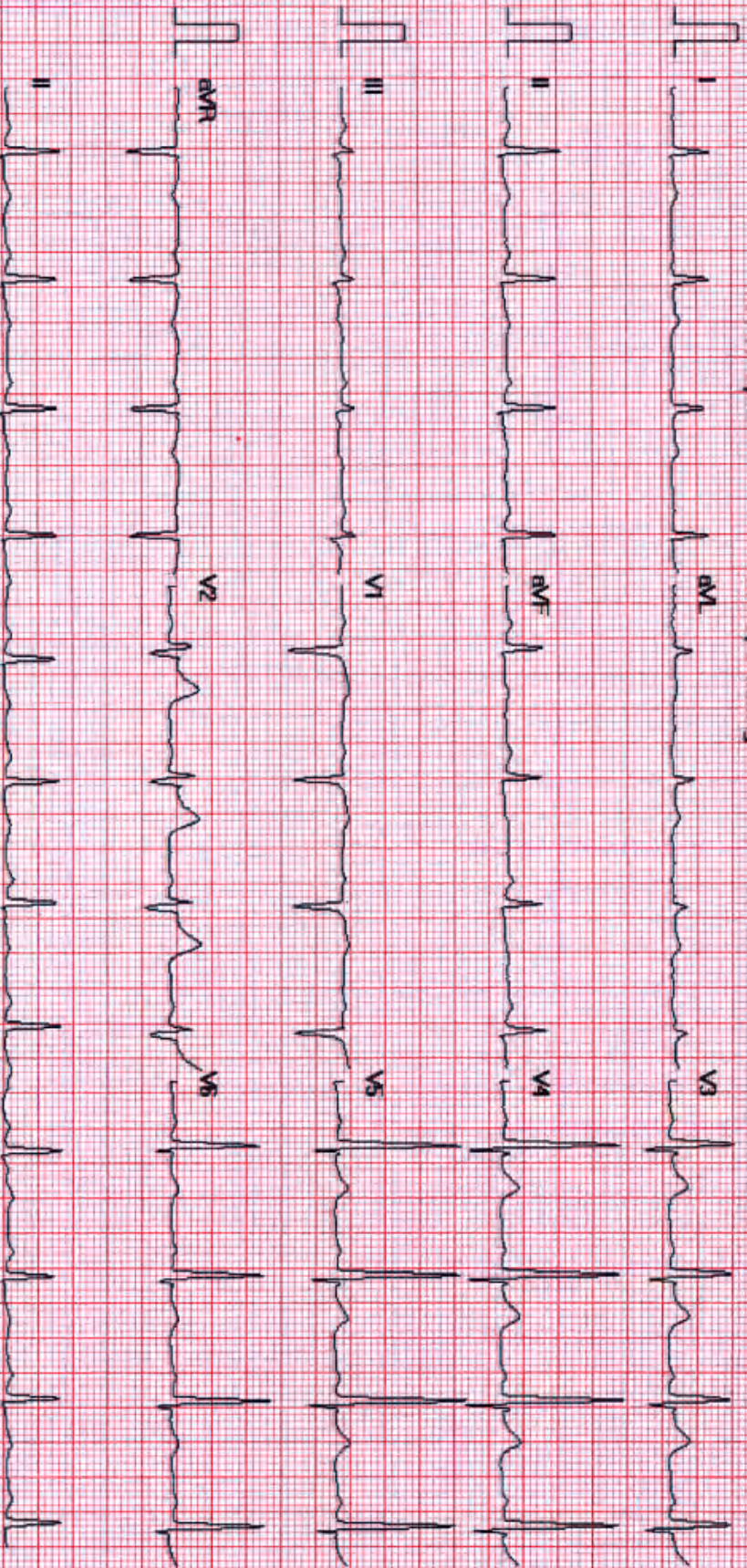
Name : GOHIL AJAYKUMAR

(25 yrs M)

Date : 14-03-2024

HR 77 bpm

BP 0/0 mmHg



Interval (msec)  
PQ 125  
QRS 75  
QT 170  
QTc 336

Axis (degrees)  
Axis P 77  
Axis QRS 49  
Axis T 46

Comment

Referred By

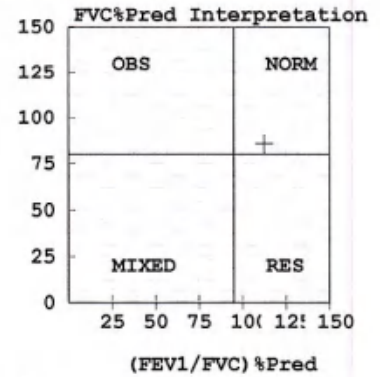
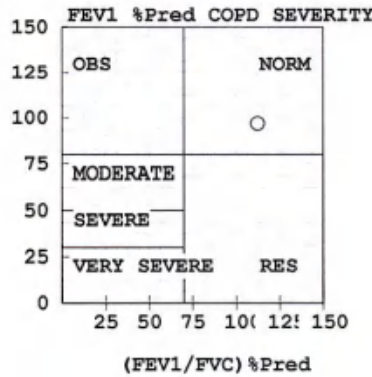
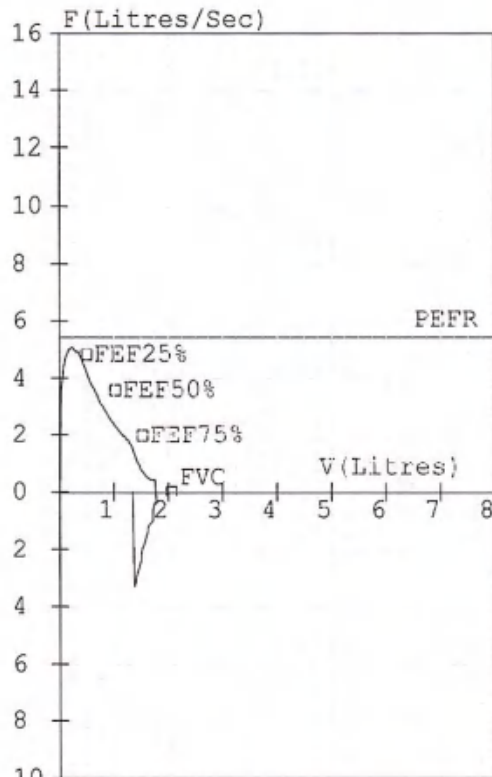
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**DR. CHIRAG DALERA**  
M.B.B.S  
Consultant  
REGD.No. G-54295



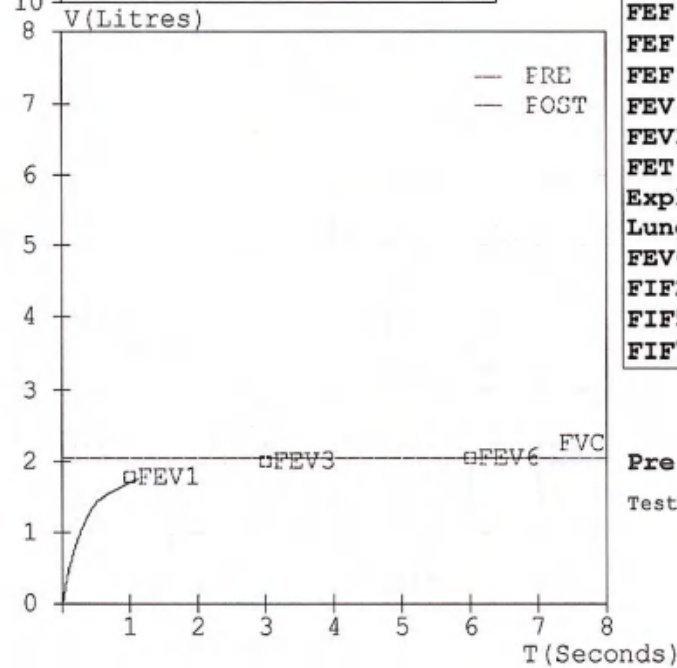
Patient: GOHIL AJAYKUMAR  
 Refd. By:  
 Med. Eqns: RECORDERS  
 Date: 14-Mar-2024 09:50 AM

Age : 24 Years Gender : Male  
 Height : 165 Cms Smoker : Yes  
 Weight : 72 Kgs Eth. Corr: 60  
 ID: AR1044 Temp :



**Spirometry (FVC Results)**

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	02.05	01.77	086	-----	---	---
FEV1 (L)	01.78	01.72	097	-----	---	---
FEV1/FVC (%)	86.83	97.18	112	-----	---	---
FEF25-75 (L/s)	02.74	02.53	092	-----	---	---
PEFR (L/s)	05.43	05.01	092	-----	---	---
FIVC (L)	-----	00.42	---	-----	---	---
FEV.5 (L)	-----	01.41	---	-----	---	---
FEV3 (L)	01.99	01.77	089	-----	---	---
PIFR (L/s)	-----	03.33	---	-----	---	---
FEF75-85 (L/s)	-----	01.06	---	-----	---	---
FEF.2-1.2 (L/s)	04.63	03.08	067	-----	---	---
FEF 25% (L/s)	04.82	04.46	093	-----	---	---
FEF 50% (L/s)	03.58	02.69	075	-----	---	---
FEF 75% (L/s)	01.98	01.55	078	-----	---	---
FEV.5/FVC (%)	-----	79.66	---	-----	---	---
FEV3/FVC (%)	97.07	100.00	103	-----	---	---
FET (Sec)	-----	01.14	---	-----	---	---
Exp1Time (Sec)	-----	00.05	---	-----	---	---
Lung Age (Yrs)	024	025	104	-----	---	---
FEV6 (L)	02.05	-----	---	-----	---	---
FIF25% (L/s)	-----	04.00	---	-----	---	---
FIF50% (L/s)	-----	03.56	---	-----	---	---
FIF75% (L/s)	-----	03.17	---	-----	---	---



**Pre Test COPD Severity**  
 Test within normal limits

**DR. CHIRAG VALERA**  
 M.B.B.S  
 REGD No. G-54295

Pre Medication Report Indicates  
 Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >80.



**TEST REPORT**

**Name** : Mr. Gohil Ajaykumar 1044  
**Age/Sex** : 25 Years / Male  
**Ref. By** :  
**Client Name** :  
**Employee ID** : 9300500014

**Reg. No** : 403101524  
**Reg. Date** : 15-Mar-2024 03:44 PM  
**Collected On** : 15-Mar-2024 03:47 PM  
**Printed On** :  
**Department** : Helper

**Abnormal Result(s) Summary**

Test Name	Result Value	Unit	Reference Range
<b>CBC</b>			
Hematocrit (Electrical Impedance)	52.40	%	47 - 52
MCHC (Calculated)	27.9	%	30 - 35
RDW (Calculated)	15.0	%	11.5 - 14.0
MPV	11.9	fL	7.4 - 10.4
<b>LFT</b>			
SGOT	78.93	U/L	17 - 59
SGPT	52.11	U/L	0 - 50
Alakaline Phosphatase	127.1	U/L	38 - 126

Service Remarks: Consult Physician

**Abnormal Result(s) Summary End**

This is an Electronically Authenticated Report.





**TEST REPORT**

<b>Name</b> : Mr. Gohil Ajaykumar 1044	<b>Reg. No</b> : 403101524
<b>Age/Sex</b> : 25 Years / Male	<b>Reg. Date</b> : 15-Mar-2024 03:44 PM
<b>Ref. By</b> :	<b>Collected On</b> : 15-Mar-2024 03:47 PM
<b>Client Name</b> :	<b>Printed On</b> : 18-Mar-2024 11:07 AM
<b>Employee ID</b> : 9300500014	<b>Department</b> : Helper

Parameter	Results	Unit	Biological Ref. Interval
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**COMPLETE BLOOD COUNT (CBC)**

Hemoglobin (SLS method)	14.6	g/dL	13.0 - 18.0
Hematocrit (Electrical Impedance)	H 52.40	%	47 - 52
RBC Count (Electrical Impedance)	5.29	million/cmm	4.7 - 6.0
MCV (Calculated)	99.1	fL	78 - 110
MCH (Calculated)	27.6	Pg	27 - 31
MCHC (Calculated)	L 27.9	%	30 - 35
RDW (Calculated)	H 15.0	%	11.5 - 14.0
WBC Count (Flowcytometry)	6160	/cmm	4000 - 10500
Platelet Count	303000	/cmm	150000 - 450000
MPV	H 11.9	fL	7.4 - 10.4

<u>DIFFERENTIAL WBC COUNT</u>	[ % ]		<u>EXPECTED VALUES</u>	[ Abs ]	<u>EXPECTED VALUES</u>
Neutrophils (%)	60	%	42.0 - 75.2	3696 /cmm	
Lymphocytes (%)	31	%	20 - 45	1910 /cmm	
Eosinophils (%)	2	%	1 - 4	123 /cmm	
Monocytes (%)	7	%	2 - 8	431 /cmm	
Basophils (%)	0	%	0 - 1	0 /cmm	

**PERIPHERAL SMEAR STUDY**

RBC Morphology	RBC are normochromic normocytic.
WBC Morphology	No premature cells are seen.
Platelets	Platelets are adequate on smear.
Parasites	Malarial parasite is not detected.

This is an Electronically Authenticated Report.

**Dr.K.R Prajapati**  
**MD.Patho (G-28517)**







**TEST REPORT**

Name : Mr. Gohil Ajaykumar 1044  
Age/Sex : 25 Years / Male  
Ref. By :  
Client Name :  
Employee ID : 9300500014

Reg. No : 403101524  
Reg. Date : 15-Mar-2024 03:44 PM  
Collected On : 15-Mar-2024 03:47 PM  
Printed On : 18-Mar-2024 11:07 AM  
Department : Helper

Parameter	Result	Unit	Biological Ref. Interval
<b>Random Blood Sugar (RBS)</b> <i>Glucose Oxidase-Peroxidase</i>	76	mg/dL	70 - 140
<b>Creatinine</b> <i>ENZYMATIC</i>	1.48	mg/dL	0.8 - 1.5
<b>Uric Acid</b> <i>Uricase Colorimetry</i>	6.63	mg/dL	3.5 - 8.5
<b>UREA</b> <i>Urease end point reaction</i>	24.17	mg/dL	16.0 - 43.0

**LIVER FUNCTION TEST**

<b>SGOT</b> <i>Multipoint-Rate/Uv With P-5-P</i>	78.93	U/L	17 - 59
<b>SGPT</b> <i>Multipoint-Rate/Uv With P-5-P</i>	52.11	U/L	0 - 50
<b>Total Bilirubin</b> <i>Colorimetric method</i>	0.5	mg/dL	0.1 - 1.4
<b>Conjugated Bilirubin</b> <i>Sulph acid dp/caff-benz</i>	0.3	mg/dL	0.0 - 0.3
<b>Unconjugated Bilirubin</b> <i>Sulph acid dp/caff-benz</i>	0.2	mg/dL	0.0 - 1.1
<b>Alkaline Phosphatase</b> <i>P-nitrophenyl phosphatase-AMP Buffer, Multiple-point rate</i>	127.1	U/L	38 - 126
<b>GGT</b> <i>G-glutamyl l-p-nitroanilide</i>	32.83	U/L	15 - 73

Remarks: Consult Physician

This is an Electronically Authenticated Report.

**Dr.K.R Prajapati**  
MD.Patho (G-28517)







**TEST REPORT**

Name : Mr. Gohil Ajaykumar 1044  
Age/Sex : 25 Years / Male  
Ref. By :  
Client Name :  
Employee ID : 9300500014

Reg. No : 403101524  
Reg. Date : 15-Mar-2024 03:44 PM  
Collected On : 15-Mar-2024 03:47 PM  
Printed On : 18-Mar-2024 11:07 AM  
Department : Helper

Parameter	Result	Unit	Biological Ref. Interval
-----------	--------	------	--------------------------

**URINE ROUTINE EXAMINATION**

**PHYSICAL EXAMINATION**

Quantity	30 cc
Colour	Yellow
Clarity	Clear

**CHEMICAL EXAMINATION (BY REFLECTANCE PHOTOMETRIC)**

pH	5.0	4.6 - 8.0
Sp. Gravity	1.015	1.001 - 1.035
Protein	Nil	
Glucose	Nil	
Ketone Bodies	Nil	
Urobilinogen	Nil	
Bilirubin	Nil	
Nitrite	Nil	
Leucocytes	Nil	
Blood	Nil	

**MICROSCOPIC EXAMINATION (MANUAL BY MICROSCOPY)**

Leucocytes (Pus Cells)	Nil	
Erythrocytes (Red Cells)	Occasional/hpf	
Epithelial Cells	2 - 3/hpf	/hpf
Amorphous Material	Nil	
Casts	Nil	
Crystals	Nil	
Bacteria	Nil	
Fungus	Nil	
Spermatozoa	Nil	

----- End Of Report -----

This is an Electronically Authenticated Report.

**Dr.K.R Prajapati**  
MD.Patho (G-28517)



# 3.0 NOISE LEVEL MONITORING REPORT



**Period: December - 2023**

**FOR**

**M/s. Aarti Industries Limited (Unit – 3).  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental  
Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024)

QCI-NABET Accredited EIA & GW  
Consultant Organization

GPCB Recognized Environmental  
Auditor (Schedule-II)

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

### NOISE LEVEL MONITORING REPORT

<b>Test Report No.:</b>	<b>UERL-D/23/12/AIL-3/N-001</b>	<b>Date of Report:</b>	04/01/2024
<b>Name &amp; Address of Customer:</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
<b>Location of Sampling / Monitoring:</b>	Ambient Noise		
<b>Sampling Method</b>	IS: 9989 : 1981		

➤ **Details of Instrument Used for Monitoring.**

Instrument Id No.	Instrument Name	Model Number	Calibration Date	Next Calibration Date
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	03/02/2023	02/02/2024

**Date of Monitoring:** 20/12/2023

DISCIPLINE – CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION			
Sr. No.	Location	Noise Level dB(A)		Permissible Limit CPCB	
		Day Time	Night Time	Day Time	Night Time
				75 dB (A)	70 dB (A)
1.	Near DFG Plant Entrance Area	67.2	58.6	75 dB (A)	70 dB (A)
2.	Near DFG Melter Area	71.6	63.4	75 dB (A)	70 dB (A)
3.	New Utility Area	61.4	52.3	75 dB (A)	70 dB (A)
4.	Near ETP Area	52.6	48.1	75 dB (A)	70 dB (A)
5.	Near Material Gate Area	56.5	49.2	75 dB (A)	70 dB (A)

**Note:** Ambient Air Quality Standards in respected of Noise as per CPCB.

Area Code	Category of Area/Zone	Limit in dB (A) Leq	
		Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

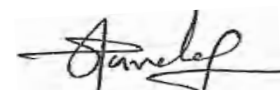
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

# 3.0 NOISE LEVEL MONITORING REPORT



**Period: January - 2024**

**FOR**

**M/s. Aarti Industries Limited (Unit – 3).  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental  
Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024)

QCI-NABET Accredited EIA & GW  
Consultant Organization

GPCB Recognized Environmental  
Auditor [Schedule-II]

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company



### NOISE LEVEL MONITORING REPORT

<b>Test Report No.:</b>	<b>UERL-D/24/01/AIL-3/N-001</b>	<b>Date of Report:</b>	05/02/2024
<b>Name &amp; Address of Customer:</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
<b>Location of Sampling / Monitoring:</b>	Ambient Noise		
<b>Sampling Method</b>	IS: 9989 : 1981		

➤ **Details of Instrument Used for Monitoring.**

Instrument Id No.	Instrument Name	Model Number	Calibration Date	Next Calibration Date
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	03/02/2023	02/02/2024

**Date of Monitoring:** 18/01/2024

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Location	Noise Level dB(A)			
		Day Time	Night Time	Permissible Limit CPCB	
				Day Time	Night Time
1.	Near DFG Plant Entrance Area	66.5	57.2	<b>75 dB (A)</b>	<b>70 dB (A)</b>
2.	Near DFG Melter Area	70.2	64.3	<b>75 dB (A)</b>	<b>70 dB (A)</b>
3.	New Utility Area	62.6	51.8	<b>75 dB (A)</b>	<b>70 dB (A)</b>
4.	Near ETP Area	53.4	49.6	<b>75 dB (A)</b>	<b>70 dB (A)</b>
5.	Near Material Gate Area	55.3	48.2	<b>75 dB (A)</b>	<b>70 dB (A)</b>

**Note:** Ambient Air Quality Standards in respected of Noise as per CPCB.

Area Code	Category of Area/Zone	Limit in dB (A) Leq	
		Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

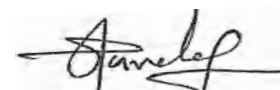
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)



# 3.0 NOISE LEVEL MONITORING REPORT



**Period: November - 2023**

**FOR**

**M/s. Aarti Industries Limited (Unit – 3).  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
Vapi - 396 195, Gujarat, India.  
Phone : +91 260 2433966 / 2425610  
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental  
Laboratory under the EPA-1986 (31.03.2023 to 22.09.2024)

QCI-NABET Accredited EIA & GW  
Consultant Organization

GPCB Recognized Environmental  
Auditor [Schedule-II]

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

### NOISE LEVEL MONITORING REPORT

<b>Test Report No.:</b>	<b>UERL-D/23/11/AIL-3/N-001</b>	<b>Date of Report:</b>	04/12/2023
<b>Name &amp; Address of Customer:</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
<b>Location of Sampling / Monitoring:</b>	Ambient Noise		
<b>Sampling Method</b>	IS: 9989 : 1981		

➤ **Details of Instrument Used for Monitoring.**

Instrument Id No.	Instrument Name	Model Number	Calibration Date	Next Calibration Date
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	03/02/2023	02/02/2024

**Date of Monitoring:** 21/11/2023


DISCIPLINE – CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION			
Sr. No.	Location	Noise Level dB(A)		Permissible Limit CPCB	
		Day Time	Night Time	Day Time	Night Time
				75 dB (A)	70 dB (A)
1.	Near DFG Plant Entrance Area	66.5	59.8	75 dB (A)	70 dB (A)
2.	Near DFG Melter Area	72.1	61.5	75 dB (A)	70 dB (A)
3.	New Utility Area	60.5	50.2	75 dB (A)	70 dB (A)
4.	Near ETP Area	51.2	47.5	75 dB (A)	70 dB (A)
5.	Near Material Gate Area	57.7	48.5	75 dB (A)	70 dB (A)

**Note:** Ambient Air Quality Standards in respected of Noise as per CPCB.

Area Code	Category of Area/Zone	Limit in dB (A) Leq	
		Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

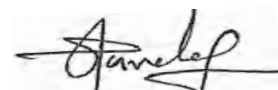
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

# 3.0 NOISE LEVEL MONITORING REPORT



**Period: October - 2023**

**FOR**

**M/s. Aarti Industries Limited (Unit – 3).  
(Saffron SEZ Unit)**

**At**

**Plot No. Z/111/B, Dahej SEZ Part-II,  
Tal. Vagara, Dist. Bharuch,  
Dahej-392 130, Gujarat, India.**

**Monitoring Organization**



White House  
Near G.I.D.C. Office, Char Rasta,  
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Auditor [Schedule-II]

ISO 9001 : 2015  
Certified Company

ISO 45001 : 2018  
Certified Company

### NOISE LEVEL MONITORING REPORT

<b>Test Report No.:</b>	<b>UERL-D/23/10/AIL-3/N-001</b>	<b>Date of Report:</b>	04/11/2023
<b>Name &amp; Address of Customer:</b>	<b>M/s. AARTI INDUSTRIES LTD. (UNIT – 3 SAFFRON)</b> Plot No. Z/111/B, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
<b>Location of Sampling / Monitoring:</b>	Ambient Noise		
<b>Sampling Method</b>	IS: 9989 : 1981		

➤ **Details of Instrument Used for Monitoring.**

Instrument Id No.	Instrument Name	Model Number	Calibration Date	Next Calibration Date
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	03/02/2023	02/02/2024

**Date of Monitoring:** 20/10/2023

DISCIPLINE – CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION			
Sr. No.	Location	Noise Level dB(A)		Permissible Limit CPCB	
		Day Time	Night Time	Day Time	Night Time
				75 dB (A)	70 dB (A)
1.	Near DFG Plant Entrance Area	67.3	60.5	75 dB (A)	70 dB (A)
2.	Near DFG Melter Area	73.2	62.2	75 dB (A)	70 dB (A)
3.	New Utility Area	61.4	51.3	75 dB (A)	70 dB (A)
4.	Near ETP Area	52.5	48.4	75 dB (A)	70 dB (A)
5.	Near Material Gate Area	58.5	49.3	75 dB (A)	70 dB (A)

**Note:** Ambient Air Quality Standards in respected of Noise as per CPCB.

Area Code	Category of Area/Zone	Limit in dB (A) Leq	
		Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

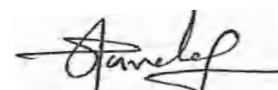
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

S. J. PANDIT, IFS (Retd.)  
MEMBER SECRETARY  
SEIAA (GUJARAT)



STATE LEVEL ENVIRONMENT  
IMPACT ASSESSMENT  
AUTHORITY  
GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/5(f)/22/2021

Date:

22 JUN 2021

By R P A D  
Time Limit

Sub: Environment Clearance to M/s. Aarti Industries Limited (Unit-III) for setting up of expansion in manufacturing plant of 'Synthetic Organic Chemicals' at Plot No. Z/111/B, GIDC Notified Industrial Estate, SEZ-II, Dahej, Tal: Vagra, Dist: Bharuch. In Category 5(f) of Schedule annexed with EIA Notification dated 14/09/2006.

Ref: Your Proposal No. SIA/GJ/IND2/55210/2020.

Dear Sir,

This has reference to your application along with EIA report dated 11/09/2020 submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance to M/s. Aarti Industries Limited (Unit-III) for setting up of expansion in manufacturing plant of 'Synthetic Organic Chemicals' at Plot No. Z/111/B, GIDC Notified Industrial Estate, SEZ-II, Dahej, Tal: Vagra, Dist: Bharuch. It is an existing unit for manufacturing following products, which falls in the category - 5(f) of the schedule of the EIA Notification-2006:

S. No.	Name of Product	Existing Capacity MTPA	Proposed Capacity MTPA	Total After Expansion MTPA	CAS No.	End Uses/Applications
1	Aryl - Dianhydride	16200	0	16200	38103-06-09	Used in manufacturing of Polymers
2	Aryl - Phthalimide	11040	0	11040	550-44-7	Used in manufacturing of Polymers
3	Di Methyl Phthalate	12000	0	12000	131-11-3	Used in paints, lacquers, inks, adhesives, and sealants
4	Di Octyl Phthalate	12000	0	12000	117-84-0	Used in paints, lacquers, inks, adhesives, and sealants
5	Aryl Bisimide	0	17160	17160	54395-52-7	Used internal/ in polymer
Total		51240 MTPA	17160 MTPA	68400 MTPA	-	-

The project activity is covered in 5(f) and is of 'B' Category. Since, the proposed project is located in notified industrial area, public consultation is not required as per paragraph 7(i) (III) (i) (b) of the Environment Impact Assessment Notification-2006.

The SEAC, Gujarat vide their letter dated 20/05/2021 had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above mentioned project based on its meeting held on 08/03/2021. The proposal was considered by SEIAA, Gujarat in its meeting held on 25/05/2021 at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14<sup>th</sup> September, 2006 subject to the compliance of the following conditions.

**A. CONDITIONS**

**A.1 SPECIFIC CONDITION**

1. Project proponent (PP) shall install CEMS [Continuous Emission Monitoring System] in line to CPCB directions to all CPCB vide letter no. B-29016/04/06PCI-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB/CPCB on real time basis. [For Small/Large/Medium (Red Category) & Whichever (Air emission & Effluent discharge) is applicable].
2. Project Proponent (PP) shall install rain water harvesting system as per time bound action plan details submitted by PP.
3. PP shall provide separate ETP for high COD stream and low COD stream for proposed expansion project. Close loop solvent recovery system with adequate condenser system shall be provided to recover solvent vapors in such a manner that recovery shall be maximum and recovered solvent shall be reused in the process within premises. (If there is in-



house solvent recovery and in-house distillation)

5. Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines. LDAR Logbooks shall be maintained
6. The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2008 shall be complied with.
7. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G. S. R. 608 (E) dated 21/07/2010 and amended from time to time shall be followed.
8. Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants, and shall carry out the project development in accordance & consistence with the same.
9. The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.
10. The unit shall develop a green belt within premises (18106 sq. meters i.e. 33 % of total project area) as per the CPCB guidelines and submit an action plan of plantation for the next three years to the GPCB (As per the documents submitted before SEIAA/SEAC).
11. **Safety & Health:**
  - a. Project Proponent (PP) shall obtain PESO permission for the storage and handling of hazardous chemicals. (If applicable).
  - b. PP shall provide Occupational Health Centre (OHC) and full time medical officer as per the provisions under the Gujarat Factories Rule 68-U.
  - c. PP shall obtain fire safety certificate / Fire No.Objection certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
  - d. Unit shall adopt functional operations/process automation system including emergency response to eliminate risk associated with the hazardous processes.
  - e. PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident.
  - f. PP shall install adequate fire hydrant system within premises and separate storage of water and foam pouring system and the same shall be ensured by PP.
  - g. PP shall take all the necessary steps for control of storage hazards within premises ensuring incompatibility of storage raw material and ensure the storage keeping safe distance as per the prevailing guidelines concerned authority.
  - h. PP shall take all the necessary steps for human safety within premises to ensure that no any harm is caused to any worker/employee or labor within premises.
  - i. Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.
  - j. Unit shall provide effective fire hydrants, water monitors & foam application system at solvent storage tank farm area and unit shall provide adequate safety system such as water sprinklers, water curtains, foam pouring system etc. to restrict cascade fire emergency in solvent tank farm..
12. Unit shall comply with all the orders passed by the Hon'ble National Green Tribunal (NGT), New Delhi in Original Application No. 1038/2018 dated 10/07/2018.
13. Unit shall stand in compliance to Office Memorandum (OM) vide Letter No. F. No. 22-23/2018 - IA.III (Pt) dated 31/10/2019 regarding Compliance of Hon'ble National Green Tribunal (NGT) order dated 19.08.2019 (Published on 23/08/2019) in Original Application No. 1038/2018.
14. No project/activity in contradiction to the orders passed by the Hon'ble National Green Tribunal (NGT), New Delhi in Original Application No. 1038/2018 dated 10/07/2018 shall be carried out else the granted Environment Clearance shall stand cancelled.
15. Close loop solvent recovery system with adequate condenser system shall be provided to recover solvent vapors in such a manner that recovery shall be maximum and recovered solvent shall be reused in the process within premises. (If there is in-house solvent recovery and in-house distillation)
16. Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines. LDAR Logbooks shall be maintained
17. Unit shall explore the possibilities for environment friendly methods for disposal of Incinerable & land fillable wastes before sending to CHWIF/TSDF sites respectively.
18. Unit shall install CEMS in line to CPCB directions to all SPCB vide letter no. B-29016/04/06PCI-1/5401 dated 05.02.2014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB/CPCB on real time basis. [Whichever (Air emission & Effluent discharge) is applicable as per the prevailing guidelines of GPCB/CPCB].
19. All measures shall be taken to prevent soil and ground water contamination.

20. The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.
21. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G. S. R. 608 (E) dated 21/07/2010 and amended from time to time shall be followed.
22. Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants, and shall carry out the project development in accordance & consistency with the same.
23. Unit shall provide CCTV camera at strategic locations within premises with web link facility for the continuous monitoring and recording to ensure that there is no discharge from the premises. (As per the prevailing guidelines of GPCB).
24. Third party monitoring of the functioning of the EMS along with its efficiency shall be carried out once in a year through a GPCB recognized auditors.

**A 2 WATER**

25. Total water requirement for the project shall not exceed 3538 KLD. Unit shall reuse 726 KLD of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 2812 KLD after expansion and it shall be met through water GIDC water supply only.
26. The industrial effluent generation from the project shall not exceed 689.7 KLD after expansion.
27. The entire industrial effluent shall be segregated and treated as mentioned below:
- 170 KLD, High COD and TDS effluent from process shall be evaporated in in-house MEE and ATFD-1: 167 KLD, MEE condensate shall be reused back in process.
  - 60 KLD waste water generated from process shall be directly reused back in process.
  - 378.7 KLD, Low COD and TDS effluent from utility and washing section shall be treated in two stage RO plant. 24 KLD, RO reject shall be evaporated in in-house MEE cum ATFD-2 while 134 KLD RO reject shall be treated in low COD stream ETP. 452 KLD, RO permeate shall be reused back in process. 22 KLD MEE condensate shall be reused back in process.
  - 79 KLD, Low COD stream from process and washing and 134 KLD, RO reject shall be treated in ETP consist of primary, secondary and tertiary ETP units and treated effluent shall be discharged into GIDC underground pipeline leading to sea.
28. Unit shall fed wastewater to MEE and ATFD only after ensuring content of effluent for COD/VOC so as not to get air borne during evaporation in order to achieve no adverse impacts on Environment and Human Health.
29. Treated waste water shall be discharged into GIDC Dohaj pipeline only after complying with the norms prescribed by GPCB to ensure no adverse impact on Human Health and Environment.
30. Domestic wastewater generation shall not exceed 25 KL/day for proposed project and it shall be treated in STP. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB.
- During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.
- Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
- The unit shall provide metering facility at the inlet and outlets of ETP, MEE, RO and maintain records for the same.
34. Proper logbooks of ETP, chemical consumption in Effluent treatment, quantity & quality of effluent fed into MEE, quantity & quality of effluent discharge to GIDC drainage, quantity & quality of effluent recycle back in process, power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.

**A 3 AIR**

35. Unit shall not exceed fuel consumption for Boiler, thermo pack as mentioned below:

S. No.	Stack Attached To	Stack Height (m)	Fuel	APCM	Type of Emission
1	Boiler ( 15 TPH)	30	Natural Gas	Adequate stack height	PM SO <sub>2</sub> NO <sub>x</sub>
2	Thermopack (22 LAKH Kcal/hr)	30	Natural Gas		
3	D.G. Set (3 Nos. X 1500 KVA)	11	Diesel		
1	4 TPH Boiler (To be replaced with 15 TPH existing Boiler)	30	Natural Gas	Adequate stack height	PM SO <sub>2</sub> NO <sub>x</sub>
2	Boiler (24TPH)	30	Natural Gas		

3	40 lakh kcal/hr Thermopack (To be replaced with 22 lakh kcal/hr existing Thermopack)	30	Natural Gas	
4	6.5 lakh kcal/hr Thermopack	30	Natural Gas	
5	D.G Set (2 Nos X 2500 KVA)	11	Diesel	

36. Unit shall provide adequate APCM with flue gas generation sources as mentioned above:

37. Unit shall provide adequate APCM with process gas generation sources as mentioned below:

S. No.	Stack attached to	Stack Height in Meter	APCM	Parameter
1	Vessels & Vacuum Pumps	11	Water Scrubber followed by Carbon adsorption tower	VOCs
2	Storage Tanks	11		VOCs
1	Vessels vent connected to scrubber / Carbon tower	11	Water Scrubber followed by Carbon adsorption tower	VOCs
2	Water scrubber of Dryer	11	Water Scrubber	PM

38. The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.

- Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.
- Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.
- A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive transport dust emission.

39. Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.

40. For control of fugitive emission VOCs, following steps shall be followed :

- a. Closed handling and charging system shall be provided for chemicals.
- b. Reflux condenser shall be provided over Reactors / Vessels.
- c. Pumps shall be provided with mechanical seals to prevent leakages.
- d. Air borne dust at all transfers operations/ points shall be controlled either by spraying water or providing enclosures.

41. Solvent management shall be carried out as follows :

- ✓ Measures shall be taken to reduce the process vapors emissions as far as possible. Use of toxic solvents shall be minimum. All venting equipment shall have vapour recovery system
- ✓ Reactor shall be connected to adequate chilling system to condensate solvent vapors and reduce solvent losses.
- ✓ Reactor and solvent handling pump shall have mechanical seals to prevent leakages.
- ✓ The condensers shall be provided with sufficient HTA and residence time so as to achieve maximum solvent recovery.
- ✓ Solvents shall be stored in a separate space specified with all safety measures.
- ✓ Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.
- ✓ Solvent storage and handling area shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.

42. Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx and VOCs shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.

**A 4 SOLID / HAZARDOUS WASTE**

43. All the hazardous waste management shall be taken care as mentioned below:

S. No.	Name of Waste	Source of generation	Category	Existing Quantity (MTPA)	Proposed Quantity (MTPA)	Total Quantity (MTPA)	Mode of disposal
<b>Hazardous Waste</b>							
1	ETP Waste	ETP	35.3	280	260	540	Collection, Storage, Transportation, disposal to TSDF.
2	Discarded containers /bags	Packing material	33.1	20	40	60	Collection, Storage, Decontamination, Disposal by sold to authorized recyclers.
3	Used oil	Maintenance of Machineries and equipment	5.1	2.4	5	7.4	Collection, Storage, Transportation, Disposal by selling to registered re-processors.
4	Spent Oil	Process	5.1	0	5	5	Collection, Storage, transportation, sent for co-processing/ incineration
5	Spent Carbon	Process, ETP, and APCM	36.2	12	20	32	Collection, Storage, transportation, sent for co-processing/ incineration
6	Distillation Residue	Process	26.1	12	996	1008	Collection, Storage, transportation, sent for co-processing/ incineration
7	MEE + ATFD salt	Waste water treatment	35.3	0	730	730	Collection, Storage, Transportation, disposal to TSDF
8	Process Waste (MEE bottom salt)	Process	26.1	0	1095	1095	Collection, Storage, Transportation, disposal to TSDF/Incineration/Co processing
9	Off-specification product	Process	26.1	24	0	24	Collection, Storage, Transportation disposal by Co-processing.
10	PPE's Waste	Process waste	33.2	0	25	25	Collection, Storage, Transportation disposal to Land filling



11	NaNO <sub>2</sub> (40-45%) / NaNO <sub>3</sub> (90-95%)	Process	A12	0	10032 / 4650	10032 / 4650	Collection, storage and transportation to & sold to market as per Rule 9 of Hazardous and Other wastes (Management & Transboundary Movement) Rules 2016 based on applicability
12	Spent Solvent	Process	26.4	0	2571.2	2571.2	Collection, storage and in house Solvent Recovery Unit and recycle into same process

44. Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
45. Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of Incinerable & land fillable wastes before sending to CHWIF & TSDF sites respectively.

#### A. OTHER

46. The project proponent shall allocate the separate fund of Rs. 190 Lakhs as committed before SEAC. The entire activities proposed under CER shall be part of the Environment Management Plan (EMP) as per the MoEF & CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF & CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.
47. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. Eco Chem Sales & Services, Surat and submitted by project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.

#### B. GENERAL CONDITIONS:

##### B.1 CONSTRUCTION PHASE:

48. Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.
49. Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.
50. All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.
51. First Aid Box shall be made readily available in adequate quantity at all the times.
52. The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.
53. Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.
54. Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.
55. Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.
56. All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.
57. Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighbouring communities.
58. Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete [RMC] and lead free paints in the project.
59. Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from lime to lime.
60. Wind - breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided. Individual building within the project site shall also be provided with barricades.
61. "No uncovered vehicles carrying construction material and waste shall be permitted."



62. "No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left uncovered. Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."
63. Roads leading to or at construction site must be paved and blacktopped (i.e. - metallic roads).
64. No excavation of soil shall be carried out without adequate dust mitigation measures in place.
65. Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.
66. Grinding and cutting of building materials in open area shall be prohibited.
67. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
68. Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).

## **B.2 OPERATION PHASE**

### **B.2.1 WATER**

69. Industry should provide separate dedicated washing area for hand washing/bathing of worker and the waste water generated from the same should be taken into ETP.
70. The water meter shall be installed and records of daily and monthly water consumption shall be maintained.
71. All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously strive to reduce, recycle and reuse the treated effluent.

### **B.2.2 AIR**

72. In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.
73. Acoustic enclosure shall be provided to the DG sets (if applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.
74. Stack/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.
75. Flue gas emission & Process gas emission (if any) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.
76. All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.
77. Adequate Air Pollution Control Measures [APCM] shall be provided.
78. The unit shall adhere to Sector specific guidelines/ SOP published by GPCB / CPCB from time to time for effective fugitive emission control. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.
- Unit shall take adequate measures to control odor nuisance from the industrial activities which may include measures like use of masking agent with atomizer system (water curtain), closed / automatic material handling system, containment of the odor vulnerable areas etc.
80. Unit shall provide Wall to Wall carpeting in vehicle movement areas within premises to avoid dusting.

### **B.2.3 HAZARDOUS SOLID WASTE**

81. The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.
82. Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.
83. The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)
84. Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.
85. The design of the Trucks/tankers shall be such that there is no spillage during transportation
86. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
87. Management of fly ash (if any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.
88. Unit shall carry out transportation of hazardous wastes through GPS mounted vehicles only for disposal at TSDF/CHWIF, co-processing and end-users having Rule-9 permission.
89. The by-products which fall under the purview of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 shall be handled as per the said rules and necessary permissions from the concern authority shall be obtained.
90. Unit shall submit the list of authorized end users of above mentioned wastes along with MoU signed with them at least two



months in advance prior to commencement of production. In absence of potential buyers of these items, the unit shall restrict the production of respective item.

91. Industry shall dispose its hazardous wastes through co-processing, pre-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

#### **B.2.4 SAFETY**

92. The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963
93. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1999, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.
94. Main entry and exit shall be separate and clearly marked in the facility.
95. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.
96. Storage of flammable chemicals shall be sufficiently away from the production area.
97. Sufficient number of fire extinguishers shall be provided near the plant and storage area.
98. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.
99. All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.
100. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.
101. Only flame proof electrical fittings shall be provided in the plant premises.
102. Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.
103. All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.
104. Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimum human exposure occurs.
105. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the emergency.
106. Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.
107. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
108. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
109. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.
110. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.
111. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.
112. Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.
113. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be maintained.
114. Effective safety precaution shall be taken for chemical storage, process handling and transportation hazard.
115. Unit shall prepare and Implement SOP for safe operation of the works.
116. Comply the statutory provision of safety audit & its compliance report.
117. Effective step shall be taken for prevention of fire, explosion & toxic release.

#### **B.2.5 NOISE**

118. The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.

#### **B.2.6 CLEANER PRODUCTION AND WASTE MINIMISATION**

119. The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.

120. The company shall undertake various waste minimization measures such as :
  - a. Metering and control of quantities of active ingredients to minimize waste.
  - b. Reuse of by-products from the process as raw materials or as raw materials substitutes.
  - c. Use of automated and close filling to minimize spillages.
  - d. Use of close feed system into batch reactors.
  - e. Venting equipment through vapour recovery system.
  - f. Use of high pressure hoses for cleaning to reduce wastewater generation.
  - g. Recycling of washes to subsequent batches.
  - h. Recycling of steam condensate.
  - i. Sweeping / mopping of floor instead of floor washing to avoid effluent generation.
  - j. Regular preventive maintenance for avoiding leakage, spillage etc.

**B.2.7 GREEN BELT AND OTHER PLANTATION:**

121. The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.
122. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.

**B.3 OTHER CONDITION:**

123. Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).
124. The provisions of the Solid Waste Management Rules, 2016, e-Waste (Management) Rules, 2016, the Construction and Demolition Waste Management Rules, 2016 and the Plastic Waste Management Rules, 2016 shall be followed.
125. Rain water harvesting (Off-site) shall be undertaken to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter. (Applicable for units consuming ground water  $\geq$  50 KLD in line with the prevailing guidelines of SPCB).
126. The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.
127. Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.
128. The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.
129. All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.
130. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.
131. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
132. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
133. During material transfer there shall be no spillages and gulland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
134. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
135. Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.
136. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
137. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
138. The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.
139. The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.
140. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted



for any other purpose.

141. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
142. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
143. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
144. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
145. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
146. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.
147. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
148. This environmental clearance is valid for seven years from the date of issue.
149. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
150. Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.

With regards,  
Yours sincerely,



(S. J. PANDIT)  
Member Secretary

Issued to:  
M/s. Aarti Industries Limited (Unit-III)  
Plot No. Z/111/B,  
GIDC Notified Industrial Estate  
SEZ4, Dahb,  
Tal: Vagra,  
Dist: Bharuch.





Government of India  
Ministry of Environment, Forest and Climate Change  
(Issued by the State Environment Impact Assessment  
Authority(SEIAA), GUJARAT)

To,

The Zone Operation Head  
AARTI INDUSTRIES LIMITED  
Plot No. 801, 801/23, 806, 807 Phase III GIDC VAPI, Valsad, Gujarat -  
396195

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity  
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)  
in respect of project submitted to the SEIAA vide proposal number  
SIA/GJ/IND3/419266/2023 dated 11 Apr 2023. The particulars of the environmental  
clearance granted to the project are as below.

- |   |  |
|---|--|
| 1. EC Identification No.                      | EC23B021GJ166325   |
| 2. File No.                                   | SIA/GJ/IND/29703/2023  |
| 3. Project Type                               | Expansion  |
| 4. Category                                   | B  |
| 5. Project/Activity including<br>Schedule No. | 5(f) Synthetic organic chemicals industry<br>(dyes & dye intermediates; bulk   |
| 6. Name of Project                            | Proposed Expansion Project for the<br>Manufacturing of Synthetic Organic<br>Chemicals by M/s. Aarti Industries Limited<br>(Unit-III) |
| 7. Name of Company/Organization               | AARTI INDUSTRIES LIMITED   |
| 8. Location of Project                        | GUJARAT  |
| 9. TOR Date                                   | N/A  |

The project details along with terms and conditions are appended herewith from page  
no 2 onwards.

Date: 23/11/2023

(e-signed)  
Asav P. Gadhvi  
Member Secretary  
SEIAA - (GUJARAT)

*Note: A valid environmental clearance shall be one that has EC identification  
number & E-Sign generated from PARIVESH. Please quote identification  
number in all future correspondence.*

*This is a computer generated cover page.*

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,  
and Virtuous Environmental Single-Window Hub)







No. SEIAA/GUJ/EC/5(f)/ 1457 /2023

Date: 21 NOV 2023

By R P A D

Time Limit

Sub: Environment Clearance to M/s. Aarti Industries Ltd. (Unit-III) for setting up of expansion of manufacturing plant for 'Synthetic Organic Chemicals' at Plot No. Z/111/B, Z/111/C & D, GIDC Notified Industrial Estate, SEZ-II, Dahej, Tal: Vagra, Dist: Bharuch, Gujarat. In Category 5(f) of Schedule annexed with EIA Notification dated 14/09/2006.

Ref: Your Proposal No. SIA/GJ/IND3/419266/2023.

Dear Sir,

This has reference to your application along with EIA report dated 24/02/2023 submitted to SEIAA, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for Environmental Clearance to M/s. Aarti Industries Ltd. (Unit-III) for setting up of expansion of manufacturing plant for 'Synthetic Organic Chemicals' at Plot No. Z/111/B, Z/111/C & D, GIDC Notified Industrial Estate, SEZ-II, Dahej, Tal: Vagra, Dist: Bharuch, Gujarat. It is an existing unit for manufacturing following products, which falls in the category - 5(f) of the schedule of the EIA Notification-2006:

Sr. No.	Name of Products	CAS No.	Quantity (MT/month)			End use of Product
			Existing	Proposed	Total	
1.	Aryl Dianhydride	38103-06-09	1620 0	0	1620 0	Used in manufacturing of Polymers
2.	Aryl Phthalimide	550-44-7	1104 0	0	1104 0	Used in manufacturing of Polymers
3.	Di Methyl Phthalate	0131-11-3	1200 0	0	1200 0	Used in paints, lacquers, inks, adhesives, and sealants
4.	Di Octyl Phthalate	117-84-0	1200 0	0	1200 0	Used in paints, lacquers, inks, adhesives, and sealants
5.	Aryl Bisimide (BI)	54395-52-7	1716 0	0	1716 0	Used in internal/ in polymer
6.	4-nitro-n-methyl phthalimide (4 NPI)	41663-84-7	0	14635	1463 5	Used in Dyes, Dye intermediates, Basic pharma intermediates, Pigments, Polymer
7.	Chemical Gypsum	13397-24-5	0	73585	7358 5	Used in luxing agent, Cement industry
Total			68400	88220	156620	-

# Brief Note of Product Profile:

- No of production line: 7
- Brief Note regarding number of Products to be manufactured considering plant capacity: Individual plants

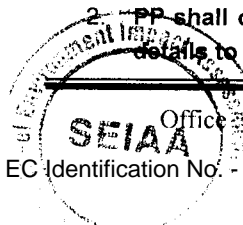
The project activity is covered in 5(f) and is of 'B' Category. Since, the proposed project is located in notified industrial area, public consultation is not required as per paragraph 7(i) (III) (i) (b) of the Environment Impact Assessment Notification-2006.

The SEAC, Gujarat vide their letter dated 29/09/2023 had recommended to the SEIAA, Gujarat, to grant the Environment Clearance for the above-mentioned project based on its meeting held on 22/08/2023. The proposal was considered by SEIAA, Gujarat in its meeting held on 26/10/2023 at Gandhinagar. After careful consideration, the SEIAA hereby accords Environmental Clearance to above project under the provisions of EIA Notification dated 14th September, 2006 subject to the compliance of the following conditions.

**A.CONDITIONS**

**A.1SPECIFIC CONDITION :**

- Environmental clearance issued is provisional, where proponent shall submit following details on an urgent basis:
- PP shall obtain additional water requirement permission of 2534 KL/ Day from competent authority and submit details to this office.



3. PP shall provide additional ETP consisting of primary, secondary as well as tertiary treatment to increase existing ETP capacity of more than 15 % capacity of existing ww (total ww 2122 KLD)) for its suitable treatment.
4. PP shall submit water harvesting / conservation plan in consultation with Narmada authority (GWIL), as per CER and submit proposal to SEAC for its Examination and copy to SEIAA, considering water requirement quantity of 5223 KLD.
5. In case, dual fuel is used, either biomass or coal, over and above NG, ratio should be informed to GPCB and SEIAA, as well as Regional office of MoEF& CC.
6. PP shall provide recycling facilities of 849 KLD in their premises with necessary instruments.
7. PP shall discharge treated effluent of 1633 KLD, confirming to GPCB discharge norms into deep sea through GIDC pipelines.
8. Unit shall install CEMS [Continuous Emission Monitoring System] in line to CPCB directions to all SPCB vide letter no. B-29016/04/06PCI-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB/CPCB on real time basis. [For Small/Large/Medium (Red Category) & Whichever (Air emission & Effluent discharge) is applicable].
9. The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.
10. National Emission Standards for Bulk drug and formulation (Pharmaceuticals) Industry issued by the Ministry vide G. S. R. 541 (E) dated 06/08/2021 and amended from time to time shall be followed. (In case of Pharma)
11. National Emission Standards for Dye and dye intermediates Industry issued by the Ministry vide G. S. R. 325 (E) dated 07/05/2014 and amended from time to time shall be followed. (In case of Dyes )
12. Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants, and shall carry out the project development in accordance & consistence with the same.
13. All measures shall be taken to avoid soil and ground water contamination within premises.
14. **Safety & Health:**
  - a. PP shall obtain PESO permission for the storage and handling of hazardous chemicals. (If applicable).
  - b. PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U.
  - c. PP shall obtain fire safety certificate / Fire No-Objection certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.
  - d. Unit shall adopt functional operations/process automation system including emergency response to eliminate risk associated with the hazardous processes.
  - e. PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident.
  - f. PP shall install adequate fire hydrant system with foam trolley attachment within premises and separate storage of water for the same shall be ensured by PP.
  - g. PP shall take all the necessary steps for control of storage hazards within premises ensuring incompatibility of storage raw material and ensure the storage keeping safe distance as per the prevailing guidelines of the concerned authority.
  - h. PP shall take all the necessary steps for human safety within premises to ensure that no any harm is caused to any worker/employee or labour within premises.
  - i. Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.
  - j. Unit shall never store drum/barrels/carboys of incompatible material/chemical together.
  - k. Unit shall provide effective Isolation for Process area and storage of hazardous chemicals.
  - l. Unit shall provide chlorine leakage control emergency kit and FRP hood with scrubber system for chlorine safety.
  - m. Unit shall provide safety valve and rapture disc, as well as auto dump or auto quench/, suppress system for nitration vessel safety.

#### **A. 2 WATER :**

15. Total water requirement for the project shall not exceed 6072 KLD. Unit shall reuse 849 KLD of treated effluent within premises. Hence, fresh water requirement shall not exceed 5223 KLD and it shall be met through GIDC water supply only. Prior permission from concerned authority shall be obtained for procurement of water.
16. The industrial effluent generation from the project shall not exceed 2122.0 KLD.
17. Management of Industrial effluent shall be as under:
  - 642 KLD of effluent generated from Softener Reject & Cooling Tower blowdown will be treated into the RO and RO reject (153 KLD) shall be sent to tertiary ETP along with industrial effluent and RO Reject (24 KLD) shall be diverted to MEE followed by ATFD & RO permeate & MEE Condensate (487 KLD) shall be recycled in cooling.
  - Total 1633 KLD of effluent i.e effluent generated from process (985 KLD) and washing (25 KLD), DM reject (433 KLD), Boiler blowdown (37 KLD) and RO reject (153 KLD) shall be treated into the Primary and Secondary ETP followed by Tertiary ETP and shall be discharged into deep sea through GIDC pipeline after conforming to the

standards prescribed by GPCB.

18. Domestic wastewater generation shall not exceed 45.0 KL/day for proposed project and it shall be treated in STP. It shall not be disposed off into soak pit. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB.
19. During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, it shall be stored within premises. There shall be no discharge of waste water outside the premises in any case.
20. Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
21. Treated waste water shall be sent to common facilities (GIDC pipeline Discharge) only after complying with the inlet norms of common facilities prescribed by GPCB to ensure no adverse impact on Human Health and Environment.
22. The PP shall ensure to dispose off Waste water to the Common Facilities having valid CTO of GPCB.
23. Unit shall feed wastewater to in-house MEE only after ensuring content of effluent for COD/VOC so as not to get air borne during evaporation in order to achieve no adverse impacts on Environment and Human Health.
24. Treated wastewater shall be subjected to in-house ATFD only after achieving inlet norms prescribed by GPCB ensuring content of effluent for COD so as not to get air borne during spray drying after APCM in order to achieve no adverse impacts on Environment and Human Health.
25. Unit shall provide STP and ETP with adequate capacity.
26. The unit shall provide metering facility at the inlet and outlet of ETP and maintain records for the same.
27. Proper logbooks of ETP; reuse/ recycle of treated/ untreated effluent; chemical consumption in effluent treatment; quantity & quality of treated effluent sent to GIDC pipeline Discharge; power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.

**A.3AIR:**

28. Unit shall not exceed fuel consumption for Boiler, Thermic Fluid Heaters, Dual fired boilers, NG fired boiler, Hot Air Generator and D G Sets as mentioned below.

Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)
<b>Existing flue gas stack details as per EC</b>						
1	Boiler (4 TPH)	30	Natural Gas	3100 Nm3/hr	PM-150 mg/Nm3 SO2 -100 ppm NOX-50 ppm	Adequate stack height
2	Boiler (24TPH)	30				
3	Thermic Fluid Heater (40 lakh kcal/hr)	30	Natural Gas	635 Nm3/hr		
4	Thermic Fluid Heater (6.5 lakh kcal/hr)	30				
	D.G.Set (3 Nos.* 1500kVA)	11	Diesel	2160 Ltr./hr		
	D.G.Set (2 Nos.* 2500kVA)	11				
<b>Proposed flue gas stack details</b>						
1	Dual fired boiler (60 TPH)	85	Coal + Briquette	327 MT/Day	PM-150 mg/Nm3 SO2 -100 ppm NOX-50 ppm	ESP + Lime dosing along with Coal/ Briquette
2	Dual fired boiler (60 TPH) OR			327 MT/Day		ESP + Lime dosing along with Coal/ Briquette
3	NG fired boiler (Standby) (60 TPH)		Natural Gas	7939 Nm3/Hr		Adequate stack height
4	Hot Air Generator	30	Coal	48 MT/Day		Bag Filter + Lime dosing along with Coal
5	D.G.Set (3 Nos.* 1500kVA)	11	Diesel	2040 Lit/hr		Adequate stack height
<b>Total after Proposed EC expansion</b>						
1	Boiler (4 TPH)	30	Natural Gas	800 Nm3/Hr.	PM-150 mg/Nm3	Adequate stack height



2	Thermic Fluid Heater (40 lakh kcal/hr)	30	Natural Gas	635 Nm3/hr	SO2 -100 ppm NOX-50 ppm		
3	Thermic Fluid Heater (6.5 lakh kcal/hr)	30	Natural Gas				
4	D.G.Set (3 Nos.* 1500kVA)	11	Diesel	2160 Ltr/hr			
5	D.G.Set (2 Nos.* 2500kVA)	11	Diesel				
6	Dual fired boiler (60 TPH)	85	Coal + Briquette	327 MT/Day			ESP + Lime dosing along with Coal/ Briquette
7	Dual fired boiler (60 TPH) OR		Coal + Briquette	327 MT/Day			ESP + Lime dosing along with Coal/ Briquette
8	NG fired boiler (Standby) (60 TPH)		Natural Gas	7939 Nm3/Hr			Adequate stack height
9	Hot Air Generator	30	Coal	48 MT/Day			Bag Filter + Lime dosing along with Coal
10	D.G.Set (3 Nos.* 1500kVA)	11	Diesel	2040 Lit/hr			Adequate stack height

**Note: Unit will receive the 59 TPH steam from the sister concern unit M/s. Aarti Industries Limited (Unit-I) (XGN ID: 41201), located at Plot No. Z/103/H, Dahej SEZ-II, Tal, Vagra, Dist. Bharuch & steam condensate/DM Water will be sent back to them.**

29. PP shall use approved fuels only as fuel in Boiler, Thermic Fluid Heaters, Dual fired boilers, NG fired boiler, Hot Air Generator and D G Sets.
30. Unit shall provide adequate APCM with flue gas generation sources to achieve the norms prescribed by GPCB.
31. Unit shall provide adequate APCM with process gas generation sources as mentioned below.

Sr. No	Specific Source of emission (Name of the Product & Process)	Type of Emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)
<b>Existing process emission as per EC</b>				
1	Vessels & Vacuum Pumps	VOCs	11	Water Scrubber followed by Carbon adsorption tower
2	Storage Tanks	VOCs	11	
3	Vessels vent connected to scrubber / Carbon tower	VOCs	11	Water Scrubber followed by Carbon adsorption tower
4	Water scrubber of Dryer	PM-150 mg/Nm3	11	Water Scrubber
<b>Proposed process emission</b>				
1	Alkali Scrubber of 4-NPI reactor	NOx-400 mg/Nm3	12	Alkali Scrubber
2	Emergency scrubber for chlorine tonner storage	Cl2-09 mg/Nm3	15	Alkali Scrubber
<b>Total after proposed Expansion</b>				
1	Vessels & Vacuum Pumps	VOCs	11	Water Scrubber followed by Carbon adsorption tower
2	Storage Tanks	VOCs	11	
3	Vessels vent connected to scrubber / Carbon tower	VOCs	11	Water Scrubber followed by Carbon adsorption tower
4	Water scrubber of Dryer	PM-150 mg/Nm3	11	Water Scrubber
5	Alkali Scrubber of 4-NPI reactor	NOx-400 mg/Nm3	12	Alkali Scrubber
6	Emergency scrubber for chlorine tonner storage	Cl2-09 mg/Nm3	15	Alkali Scrubber

32. The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.

- Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.
  - Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.
  - A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.
33. Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.
34. For control of fugitive emission, VOCs, following steps shall be followed :
- a. Closed handling and charging system shall be provided for chemicals.
  - b. Reflux condenser shall be provided over Reactors / Vessels.
  - c. Pumps shall be provided with mechanical seals to prevent leakages.
  - d. Air borne dust at all transfers operations/ points shall be controlled either by spraying water or providing enclosures.
35. Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines. LDAR Logbooks shall be maintained.
36. Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx, Cl2 and VOCs shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.

#### **A.4 SOLID / HAZARDOUS WASTE:**

37. All the hazardous/ solid waste management shall be taken care as per the point no. 32 and 33 as mentioned above.

S. No	Name of Waste	Source of generation	Category	Existing Quantity as per EC (MTPA)	Proposed Quantity (MTPA)	Total Quantity (MTPA)	Mode of disposal
1.	ETP Waste	ETP	35.3	540	210	750	Collection, Storage, Transportation, disposal to TSDF/ Co-processing
2.	Discarded containers/bags	Packing material	33.1	60	90	150	Collection, Storage, Decontamination, Disposal to TSDF/ sold to reprocessor/ Contaminated containers/bags to authorized recyclers/ Co-processing
3.	Used oil	Maintenance of Machineries and equipment	5.1	7.4	22.6	30	Collection, Storage, Transportation, Disposal by selling to registered re-processors/recyclers.
4	Spent Oil	Process	5.1	5	10	15	Collection, Storage, transportation, sent for co-processing/ incineration/ registered re-processors/recyclers.
5	Spent Carbon	Process, ETP, and APCM	36.2	32	68	100	Collection, Storage, transportation, sent for co-processing/Pre Processing/ CHWIF
6	Residue	Process	26.1	1008	0	1008	Collection, Storage, transportation, disposal at Co-processing/Pre Processing/ CHWIF.
7	Process Waste	MEE concentrate, Packaging material decontamination, Equipment cleaning, Tank cleaning	26.1	0	310	310	Collection, Storage, transportation, disposal at Co-processing/Pre Processing/ CHWIF.



8	MEE + ATFD Salt	Waste water treatment	35.3	730	0	730	Collection, Storage, Transportation, disposal to TSDF
9	Process Salt (MEE bottom salt)	Process	26.1	1095	0	1095	Collection, Storage, Transportation disposal by at TSDF Site.
10	Off-specification product	Process	26.1	24	176	200	Collection, Storage, Transportation disposal by Pre/Co-processing/ CHWIF
11	PPE's Waste	Plant	33.2	25	50	75	Collection, Storage, Transportation disposal by at TSDF Sites/Pre/ Co-processing
12	Non-recyclable Plastic waste	Plant	33.2	0	50	50	Collection, Storage, Transportation disposal by at TSDF Sites/Pre/ Co-processing
13	NaNO <sub>2</sub> (40-45%) / NaNO <sub>2</sub> (90-95%)	Process	A12	10032/4650	0	10032/4650	Collection, storage, transportation & sold to market as per Rule 9 of Hazardous and Other wastes (Management & Transboundary Movement) Rule 2016 based on applicability
14	Recovered Solvent	Process	26.4	2571.2	0	2571.2	Collection, Storage and inhouse solvent recovery unit and recycle into the same process
15	Spent Solvent	Process	26.4	0	30	30	Collection, Storage, transportation, disposal at Co-processing/Pre Processing/ CHWIF
16	HCl solution	Reception from outside	26.3 of SH-I & B15 of SH-II	0	67944	67944	Reception, Collection, storage, transportation from authorized generators.
17	Spent Resin	Effluent treatment Plant	35.2	0	20	20	Collection, Storage, transportation, disposal at TSDF/Co-processing/Pre Processing/ CHWIF.
18	RO membrane/ Cartridge filter	RO	36.2	0	20	20	Collection, Storage, transportation, disposal at TSDF/Co-processing/Pre Processing/ CHWIF.

**NON-HAZARDOUS WASTE MANAGEMENT MATRIX**

S. No.	Type of hazardous waste	Schedule and category	Source of generation	Quantity, TPA			Disposal
				Existing	Proposed	Total	
1	Insulation Waste	S1	Plant and machinery	30	70	100	Collection, Storage, Transportation disposal at TSDF Site.
2	E-waste/ Electrical waste	--	Plant and machinery	5	20	25	Collection, Storage, Transportation, Disposal by selling to authorized recyclers
3	Battery	--	Plant and	20 Nos	40 Nos	60	Collection, Storage,

	waste		machinery			nos	Transportation, Disposal by selling to authorized recyclers
4	Bio-medical waste	--	Occupational health center	1	0	1	Collection, Storage, Transportation, Disposal to CBWTF Incineration
5	Glass	B2	Plant/ lab/ Buildings	10	20	30	Collection, Storage, Transportation, disposal /sold to scrap processors
6	Wooden waste	--	Buildings	2	4	6	Collection, Storage, Transportation, Disposal to Authorized scrap vendors/co-processing
7	Paper waste	B3	Admin	1	6	7	Collection, Storage, Transportation, Disposal to Landfill site
8	Cotton waste	--	Plant/ lab/ Buildings	1	2	3	Collection, Storage, Transportation, Disposal to Incineration Facility
9	Fly ash	--	Boiler and Combustion chamber	0	27380	27380	Collection, Storage, Transportation, Disposal to brick manufacturers, Road construction and other activities.
10	STP waste	--	STP	0	Whatever generated	--	Used as manure in premises / sent to TSDF facility for landfilling.

38. Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.
39. Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of incinerable & land fillable wastes before sending to CHWIF & TSDF sites respectively.
40. The project proponent has to obtain membership of TSDF site & CHWIF before obtaining CTO of GPCB.
41. STP sludge shall be collected and used as manure in gardening activity or send to TSDF site for landfilling.
42. Management of fly ash shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.

#### **A. 5 OTHER:**

43. The project proponent shall carry out the activities of amount of Rs. 323.50 Lakhs (Environment (Green belt development, Solar system) at Ambheta, Lakhigam and Luvara Village, Education (School and classroom development) at Lakhigam, Jageshwar and Luvara Village and Health & Hygiene Project (Medical camps, swachh Bharat Abhyan, RO purification, My livable activity and sanitation) Health & Hygiene Project (Medical camps, swachh Bharat Abhyan, RO purification, My livable activity and sanitation) at Lakhigam, Jageshwar and Luvara Village) proposed under CER and it shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's OM no. F. No. 22-65/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.
44. As proposed, at least Rs. 2.50 lakhs shall be allocated for the conservation plan Schedule- I species. (MoEF&CC) (In case of Sch-I species)
45. All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. Eco Chem Sales & Services and submitted by the project proponent and commitments made during presentation before SEAC and proposed In the EIA report shall be strictly adhered to in letter

and spirit.

**B. GENERAL CONDITIONS:**

**B.1 CONSTRUCTION PHASE:**

46. Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.
47. Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.
48. All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.
49. First Aid Box shall be made readily available in adequate quantity at all the times.
50. The project proponent shall strictly comply with the Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.
51. Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.
52. Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.
53. Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.
54. All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.
55. Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighbouring communities.
56. Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete [RMC] and lead free paints in the project.
57. Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.
58. "Wind – breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided. Individual building within the project site shall also be provided with barricades.
59. "No uncovered vehicles carrying construction material and waste shall be permitted."
60. "No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left uncovered. Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."
61. Roads leading to or at construction site must be paved and blacktopped (i.e. – metallic roads).
62. No excavation of soil shall be carried out without adequate dust mitigation measures in place.
63. Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.
64. Grinding and cutting of building materials in open area shall be prohibited.
65. Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.
66. Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).

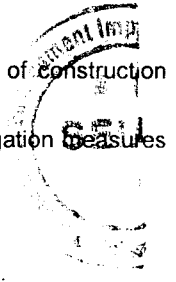
**B.2 OPERATION PHASE:**

**B.2.1 WATER:**

67. The water meter shall be installed and records of daily and monthly water consumption shall be maintained.
68. All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously strive to reduce, recycle and reuse the treated effluent.

**B.2.2 AIR:**

69. In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.
70. Acoustic enclosure shall be provided to the DG sets (If applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.
71. Stack/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.
72. Flue gas emission & Process gas emission (If any) shall conform to the standards prescribed by the



GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.

73. All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.

#### **B.2.3 HAZARDOUS/SOLID WASTE:**

74. The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.
75. Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.
76. The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)
77. Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.
78. The design of the Trucks/tankers shall be such that there is no spillage during transportation
79. All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
80. Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.

#### **B.2.4 SAFETY:**

81. The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963
82. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.
83. Main entry and exit shall be separate and clearly marked in the facility.
84. Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.
85. Storage of flammable chemicals shall be sufficiently away from the production area.
86. Sufficient number of fire extinguishers shall be provided near the plant and storage area.
87. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.
88. All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.
89. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.
90. Only flame proof electrical fittings shall be provided in the plant premises.
91. Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.
92. All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.
93. Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.
94. Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.
95. Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.
96. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.
97. Training shall be imparted to all the workers on safety and health aspects of chemicals handling.
98. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.
99. Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.
100. The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.
101. Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.

#### **B.2.5 NOISE:**

102. The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise

generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.

**B.2.6 CLEANER PRODUCTION AND WASTE MINIMISATION:**

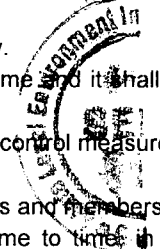
103. The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.
104. The company shall undertake various waste minimization measures such as :
  - a. Metering and control of quantities of active ingredients to minimize waste.
  - b. Reuse of by-products from the process as raw materials or as raw materials substitutes.
  - c. Use of automated and close filling to minimize spillages.
  - d. Use of close feed system into batch reactors.
  - e. Venting equipment through vapour recovery system.
  - f. Use of high pressure hoses for cleaning to reduce wastewater generation.
  - g. Recycling of washes to subsequent batches.
  - h. Recycling of steam condensate.
  - i. Sweeping / mopping of floor instead of floor washing to avoid effluent generation.
  - j. Regular preventive maintenance for avoiding leakage, spillage etc.

**B.2.7 GREEN BELT AND OTHER PLANTATION:**

105. The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.
106. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.
107. The PP shall develop green belt within premises (55,675 Sq. m i.e. 33.04% of the total plot area) as submitted before SEAC. Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.

**B.3 OTHER CONDITION:**

108. Project Proponent shall provide mechanism/ System for wastewater stream segregation at source and strictly follow up to treatment and final disposal of the same if applicable.
109. The projects covered under category 5(f) shall undergo the safety and environment audit regularly as per the standards laid down by the GPCB and CPCB.
110. PP shall carry out the safety audit and Risk Assessment Report as per the prevailing guidelines of safety.
111. Management of Fly Ash shall be as per the Fly Ash Notification 2009 & its amendment from time to time and it shall be ensured that there is 100 % utilization of fly ash to be generated from the unit.
112. EMP should invariably include provisions for environmental Monitoring and measures for noise pollution control measures.
113. In EMP proponent should separately indicate majors of occupational health, fire and safety measures.
114. Prior EC is granted is subject to the proponent receiving all statutory permission / clearances / certificates and membership of respective agencies / authorities which ever applicable. Proponent shall inform progress from time to time in six monthly compliance report to MOEFCC / SEIAA / SEAC/ GPCB failing to which this provisional EC will stand withdrawn.
115. Wherever waste water or chemical water to be collected by tankers and transported to CETP etc. any diversion and disposal in open drainage (nallah) etc. causing human and environmental damage or loss will make it liable for action under the law.
116. All transport movement by tankers etc has to be done with maintenance of gate pass and logbook it should be verified by the inspecting authorities.
117. Non-hazardous waste data shall be informed to GPCB time to time so as to make an assessment and tie-up with industry for generating sustainable power from the waste.
118. All chemical pharma industry etc. should ensure predictive and preventive maintenance of factory / boiler and reactive show as to avoid incident of fire and safety hazards.
119. EMP should include STP and detail cost including maintenance, transportation of waste water to CETP / CMEE etc as well as transportation cost or transit cost.
120. In LDAR preventive and predictive maintenance plan.
121. In LDAR leakage component, source of equipment leak, detention method should be given in table form.
122. In storage component should be shown separately in terms whether inflammable, toxic, corrosive, reactive etc.
123. In case of Fly Ash generation its management and disposal should be as per Government of India Notification and 100 % utilization should be ensured.
124. Project proponent shall install all environment management systems as per the CPCB/GPCB directives regarding the effluent discharge and air emission in working condition.
125. Project proponent shall display the copy of Environment Clearance at the site prominently.
126. Project proponent shall prepare and follow regular and preventive maintenance plan. The copy of same shall be submitted





to SEIAA.

127. Project Proponent will have to display the safety procedure in working area.
128. The project proponent shall obtain all required permissions for safety, health and fire from competent authorities like PESO/Fire Authority etc. and intimate SEIAA.
129. Project Proponent will intimate SEIAA/SEAC/GPCB after obtaining the membership of common facilities like CETP / TSDF / CHWIF / CMEE / Common Spray Dryer as the case may be.
130. Extra care will be taken by PP to avoid any accidental blast in boiler, reactor or any machinery in the plant.
131. Environment monitoring, training and disaster management plan should be undertaken and complied at regular interval.
132. Integrated Regional Office of MoEF&CC, Gandhinagar and GPCB will monitor all environment, safety & health norms as per the prevailing rules.
133. The PP has to maintain the logsheets / registers / manifest / gate pass for discharge through tankers and SCADA system for pipeline discharge for the waste water generation and its disposal data and submit to the GPCB every quarter. GPCB shall verify the same on regular basis and inform SEIAA and take legal action in the cases of non compliance.
134. Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).
135. The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEF&CC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.
136. Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.
137. The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.
138. Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.
139. The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.
140. All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.
141. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.
142. In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.
143. The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.
144. During material transfer there shall be no spillages and gullies and drains shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
145. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
146. Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.
147. No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.
148. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
149. The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.
150. The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.
151. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.
152. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.
153. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior

environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.

154. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
155. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
156. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
157. The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.
158. The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
159. This environmental clearance is valid for Ten years from the date of issue.
160. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
161. Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance cancelled.

#### **B.4 COMPLIANCE OF ENVIRONMENT CLEARANCE/REPORTING/ADMINISTRATION/APPEAL:**

162. Project proponent shall submit Certified Compliance Report of IRO, Gandhinagar for Existing EC obtained Within 10 days.
163. Project proponent shall inform to all the concerned authorities including Municipal Corporation and District Collector and shall also give wide publicity through advertisement in minimum two local newspapers within seven days, about the Environment Clearance order accorded.
164. Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent from the responsibility of compliance. Any change in key person shall immediately be informed to SEIAA and all concerned authorities.
165. Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.
166. The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliances of environment clearance conditions.
167. In case of violation reported upon, the project proponent shall be responsible for all the legal actions as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the Environment Clearance accorded.
168. Any person including the project proponent affected by this Environment Clearance order may file appeal to Honorable National Green Tribunal West Zone branch, Pune, preferably within a period of thirty days from the date of issue of Environment Clearance as prescribe under section 16 of National Green Tribunal Act 2010.
169. All complaints and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses (a) msseiaagj@gmail.com & (b) seacgujarat@gmail.com

  
(ASAV P. GADHVI)  
Member Secretary

#### **Issued to:**

**M/s. Aarti Industries Ltd. (Unit-III)**  
**Plot No. Z/111/B, Z/111/C & D, GIDC Notified Industrial Estate, SEZ-II, Dahej,**  
**Tal: Vagra, Dist: Bharuch, Gujarat**

#### **Copy to:-**

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.
2. The Additional Chief Secretary, Forests & Environment Department, Govt. of Gujarat, Block 14, 8th floor, Sachivalaya, Gandhinagar-382010.
3. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
4. Scientist C, Integrated Regional Office, Ministry of Environment and Forests, Aranya Bhavan, Sector-10, Gandhinagar - 382010.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
6. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
7. Select File



Ref.No: AIL/DHJ/SAF/ENV/2024-25/009  
Date: 27/05/2024

ID: 62935

To,  
Deputy Director General of Forests  
Integrated Regional Office (IRO)  
Ministry of Environment, Forest & Climate Change (MoEF&CC)  
A Wing - 407 & 409, Aryan Bhawan,  
Near CH-3 Circle, Sector - 10A,  
Gandhinagar - 382010

**Subject:** Regarding the Half-Yearly compliance report for the period of **October-2023 to March-2024**.  
**Reference:** Environment Clearance obtained from SEIAA Gujarat ref No.  
**SEIAA/GUJ/EC/5(f)/1457/2023 dated 21/11/2023**

Respected sir,


In respect of the above subject we have received environmental clearance for expansion of the manufacturing plant of synthetic organic chemicals in the name of **Aarti industries Ltd Unit-III (Saffron division)** at Plot No. Z/111/B, GIDC Estate, SEZ-II, Dahej, Ta.:Vagra, Dist. The EC Was received under the category of **synthetic organic chemicals 5(f) speciality chemicals & formulation**.

We would like to submit to you that currently, the Unit has not started project implementation activity (construction activity) which are mentioned in the environmental clearance. We would submit the detailed condition wise EC Compliance report once the project implementation activities are started (i.e. Construction activities).

Post receiving EC with ref, no. **SEIAA/GUJ/EC/5(f)/1457/2023**, the unit had complied with the basic condition of informing the public about EC receipt vide English and Gujarati Newspaper on Date 27/11/2023. Copy of the same is attached herewith as **Annexure-31**.

Thanking you

**For, Aarti Industries Limited**

  
Authorized Signatory



**Copy To**

1. The Member Secretary, GPCB, Gandhinagar
2. Email to The Regional Director, CPCB, Vadodara
3. Email to SEIAA, Gujarat
4. Uploaded in MOEF&CC(Parivesh) Portal

Ref.No: AIL/DHJ/SAF/ENV/2024-25/009  
Date: 27/05/2024

ID: 62935

To,  
Deputy Director General of Forests  
Integrated Regional Office (IRO)  
Ministry of Environment, Forest & Climate Change (MoEF&CC)  
A Wing - 407 & 409, Aryan Bhawan,  
Near CH-3 Circle, Sector - 10A,  
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Thanking you

For, **Aarti Industries Limited**



Authorized Signatory



Copy To

1. The Member Secretary, GPCB, Gandhinagar
2. Email to The Regional Director, CPCB, Vadodara
3. Email to SEIAA, Gujarat
4. Uploaded in MOEF&CC(Parivesh) Portal

**Date: 28/06/2021**

**GPCB ID : 62935**

To,  
The Regional Officer,  
Gujarat Pollution Control Board,  
Bharuch.

**Subject:** Regarding Advertisement of Environment Clearance of M/s. Aarti Industries Limited (Unit III), Plot no. Z/111/B, GIDC Notified Industrial Estate, SEZ II, Dahej, Ta: Vagra, Dist: Bharuch

Respected Sir,

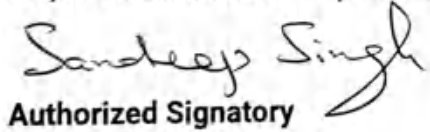
Herewith, we are submitting the copy of newspapers in which advertisement given for Environment Clearance accorded by State Level Environment Impact Assessment Authority (SEIAA), Gujarat on 22nd June, 2021 vide letter no. SEIAA/GUJ/EC/5(f)/922/2021.

The advertisements are given in "Times of India" (in english) published dated: 27/06/2021 & in "Sandesh" (in gujarati) published dated: 27/06/2021.

Thanking you,

**Yours Faithfully**

**For, Aarti Industries Ltd (Unit-III)**

  
**Authorized Signatory**

CC : 1) The Member Secretary  
Gujarat Pollution Control Board,  
Paryavaran Bhavan, Sector-10A,  
Gandhinagar-382010.

2)The Additional Principal Chief Conservator of Forests (C),  
Ministry of Environment, Forest and Climate Change,  
Regional Office (WZ),  
E-5, Kendriya Paryavaran Bhawan,  
E-5 Arera Colony, Link Road-3,  
Ravishankar Nagar, Bhopal - 462016.

Encl: Advertisement in Sandesh News Paper (Gujarati newspaper)  
Advertisement in The Times of India (English newspaper)



### તારા પતિએ મારા પર ક્રિયાદ કરી જેલમાં પુરાવો હતો અધડિયા તા.પં.ના BJPના મહિલા સદસ્ય સાથે છેતરપિંડીનો પ્રયાસ

**જાનથી મારી નાખવાની પણ પ્રમદી આપતા ક્રિયાદ નોંધાઈ**

ભરૂચના કોર્ટમાં પુસ્તક વાંચવા અને સંગીત સુલભિત્વને વધુ મહત્વ આપવાના નીતિઓને અમલમાં લાવવાના હેતુએ ભરૂચના કોર્ટમાં પુસ્તક વાંચવા અને સંગીત સુલભિત્વને વધુ મહત્વ આપવાના નીતિઓને અમલમાં લાવવાના હેતુએ ભરૂચના કોર્ટમાં પુસ્તક વાંચવા અને સંગીત સુલભિત્વને વધુ મહત્વ આપવાના નીતિઓને અમલમાં લાવવાના હેતુએ...

### દેડિયાપાડા ૧૦૮ એમ્બ્યુ.માં અંકલેશ્વરની આદર્શ સ્કૂલ નજીક ગટર મહિલાની સફળ પ્રસૂતિ કરાઈ લાઈનના આડેપડ કામથી અકસ્માત

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### નાંદોદના લાઘરસ ગામે વડીલો પાર્જિત મિલકત બાબતે પરીવાર વચ્ચે તકરાર

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**સોર્સીસ ટોલ પલ્લવ આર્દિઠ ઇન્ફ્રાસ્ટ્રક્ચર લીમિટેડ**  
(ભારતીય રાષ્ટ્રીય રાજ્યમાં પ્રવિકસતા-માર્ગ-પરિવહન અને ધોરીમાર્ગ મંજલાલ)

**બાઈર નોટિસ**

આવી જાણના પાયાનામાં ભરૂચ જિલ્લામાં નીચે મુજબના કાર્યોને અમલમાં લાવવાના હેતુએ નીચેના કાર્યોને અમલમાં લાવવાના હેતુએ નીચેના કાર્યોને અમલમાં લાવવાના હેતુએ...

ક્ર. સં.	વસ્તુનાં વર્ણન	કાર્યકર	કાર્યકરની સંખ્યા	કાર્યકરની સંખ્યા	કાર્યકરની સંખ્યા	કાર્યકરની સંખ્યા
૧.	મિલકત	૨૦૦	૨૦૦	૨૦૦	૨૦૦	૨૦૦
૨.	મિલકત	૨૦૦	૨૦૦	૨૦૦	૨૦૦	૨૦૦
૩.	મિલકત	૨૦૦	૨૦૦	૨૦૦	૨૦૦	૨૦૦
૪.	મિલકત	૨૦૦	૨૦૦	૨૦૦	૨૦૦	૨૦૦
૫.	મિલકત	૨૦૦	૨૦૦	૨૦૦	૨૦૦	૨૦૦
૬.	મિલકત	૨૦૦	૨૦૦	૨૦૦	૨૦૦	૨૦૦
૭.	મિલકત	૨૦૦	૨૦૦	૨૦૦	૨૦૦	૨૦૦
૮.	મિલકત	૨૦૦	૨૦૦	૨૦૦	૨૦૦	૨૦૦
૯.	મિલકત	૨૦૦	૨૦૦	૨૦૦	૨૦૦	૨૦૦
૧૦.	મિલકત	૨૦૦	૨૦૦	૨૦૦	૨૦૦	૨૦૦

**સર્વોચ્ચ ગુણવત્તાવાળી સર્વિસ આપવાની**

સર્વોચ્ચ ગુણવત્તાવાળી સર્વિસ આપવાની

સર્વોચ્ચ ગુણવત્તાવાળી સર્વિસ આપવાની

**મોસારના મહાકાળી માતાજીના મંદિરના દ્વાર મુલતા ભક્તોમાં ખુશી**

મોસારના મહાકાળી માતાજીના મંદિરના દ્વાર મુલતા ભક્તોમાં ખુશી

મોસારના મહાકાળી માતાજીના મંદિરના દ્વાર મુલતા ભક્તોમાં ખુશી

**સાચું મિલકત**

સાચું મિલકત

સાચું મિલકત

**સર્વોચ્ચ ગુણવત્તાવાળી સર્વિસ આપવાની**

સર્વોચ્ચ ગુણવત્તાવાળી સર્વિસ આપવાની

સર્વોચ્ચ ગુણવત્તાવાળી સર્વિસ આપવાની

**નાળા પરથી વરસાદી પાણી વહેતા મુરઝેલી અધડિયા, વાલિયા GADCN જોડતુ નાળાને ચિંતિય બનાવવા માંગણી**

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**સંદેશ સમાચાર અને સર્વોચ્ચ ગુણવત્તાવાળી સર્વિસ આપવાની**

સંદેશ સમાચાર અને સર્વોચ્ચ ગુણવત્તાવાળી સર્વિસ આપવાની

સંદેશ સમાચાર અને સર્વોચ્ચ ગુણવત્તાવાળી સર્વિસ આપવાની

Over 1.45cr vaccine doses available with states: Centre

New Delhi: More than 1.45 crore COVID-19 vaccine doses are still available with states and union territories and over 78.10 crore jobs are in the pipeline and will be received by them within the next three days, the Union Health Ministry said on Saturday.

The states and union territories have so far got over 31.17 crore vaccine doses through the free-of-cost channel of the central government and direct procurement.

Of these, the total consumption, including wastage, has been 25.73, 28, 283 doses, the ministry said.

"More than 1.45 crore (1,45,21,067) balance and unutilised Covid vaccine doses are still available with the states/UTs to be administered," the ministry said.

"Furthermore, more than 78.10, 650 vaccine doses are in the pipeline and will be received by the states/UTs within the next 3 days," the ministry said.

The new phase of universalisation of COVID-19 vaccination commenced on June 22.

Vaccination of 60+ people sluggish after initial high

Experts Raise Concerns; Cite Misinformation, Mobility Issues

New Delhi: The pace of vaccination of the 60-plus population has become sluggish in the past few weeks after an initial high, with healthcare experts attributing it to mobility issues and misinformation and unsubstantiated apprehensions about the jabs.

According to Health Ministry data, 2.25 crore elderly people have been fully vaccinated so far while 9.71 crore have received just one dose of COVID-19 vaccine till now. The 60-plus population in India was projected to be at 34.3 crore in 2022, so that would imply that just 36 per cent of them have been fully vaccinated till now.

Vaccination for those over 60 years of age and those of 45 plus with co-morbidities started from March but both governments and private centres.

On an average about 30.77 lakh vaccine doses were given to the 60-plus population per



A beneficiary thanks a healthcare worker before receiving a COVID-19 vaccine at a vaccination center in New Delhi on Saturday.

week between March 15 and April 7, but the weekly figure dropped to about 32 lakh between June 5 to 25, according to the data.

Healthcare experts expressed concern over the slow pace of vaccination of the 60-plus people who are more prone to have co-morbidities and remain more susceptible to severe disease.

Dr Sagar Ranjan, Executive Director of the Coalition for Food and Nutrition Security (CFNS), said myths, misinformation and rumours about

COVID-19 vaccines are the biggest hurdle to vaccination drive. "Some people think they will never contract COVID-19, others believe that the virus is self-limiting or that the traditional mixtures of scientifically approved vaccines is not a factor. While vaccine hesitancy has always been a phenomenon in our country, today it tends to be accentuated by opinions on social media, where even people with no subject expertise but having wide following can influence people," he said.

He said it has also been observed that most public places in rural areas lack regular internet facility infrastructure.

Hospitals have expressed concern over the slow pace of vaccination of 60-plus people who also suffer from the majority number of co-morbidities. Dr Shashil Bajaj, Founder Director, Hails Cognis Group of Hospitals, said vaccine hesitancy in the elderly population is a very real issue.

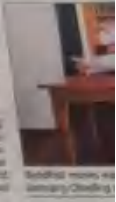
"Amongst many factors, one is a fear that people with previous heart disease will have some side-effects because of some infomercial videos that were circulating around. Some people have done their own research and they are still not convinced that they should not take the vaccine," Bajaj said.

Bajaj said mobility is also a very big issue for the elderly group.

UK study: Delta to vaccines available

By Andrew Hurrell

Hyderabad: The vaccine recently available in India has been found to work against the Delta plus Covid variant, says a UK study which is being reported in the British medical journal Lancet. The study, which emerged from the National Institute for Public Health Research, has shown that the Delta plus variant does not appear to be more infectious than the original Delta variant. The study also found that the Delta plus variant does not appear to be more infectious than the original Delta variant. The study also found that the Delta plus variant does not appear to be more infectious than the original Delta variant.



Healthcare workers wear masks and caps while working in a COVID-19 ward.

Ramp up the... The Delta variant has been largely responsible for the second wave of Covid-19 in India.

Days after getting fake vaccine, actor-MP Mimi Chakraborty falls ill

Kolkata: Actor turned TMC MP Mimi Chakraborty on Saturday fell ill, a few days after she was administered a fake COVID vaccine, sources said.



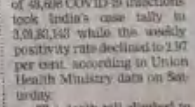
However, the doctor who attended to the Jharkhand MP said it was too early to link her illness with the fake jab that she had taken four days ago, they said.

Chakraborty became seriously ill at her residence in the morning and her maid called the family physician, sources close to the renowned actor said. The actor, who has been suffering from mild bladder and liver-related problems, suffered from dehydration, stomach ache and her blood pressure went dipped, they said.

"Mimi Chakraborty's condition is now stable and she is under treatment at her home. She is also suffering from hypertension. The doctor who attended to her said her illness cannot be immediately linked to the fake vaccine as she already had a liver problem," the sources said. Chakraborty, whose admission led to the breaking of a fake vaccine scam, was hospitalized in a private hospital in Kolkata for a few days to ascertain any possible adverse effects of the jab.

Daily Covid count again below 50k; 1,183 more

New Delhi: A single-day rise of 41,618 COVID-19 infections took India's case tally to 3,01,81,147 while the weekly positivity rate declined to 2.97 per cent, according to Union Health Ministry data on Saturday.



The death toll climbed to 3,94,684 with 1,18,183 more people succumbing to the viral disease in a day.

The number of active cases has further declined to 3,06,565 and now accounts for 2.97 per cent of the total infections, the data revealed at 8 am.

Reserve army, retrained, 100,000 more cases of COVID-19 by the 31st, announced. The total number of cases in the country is 3,01,81,147. The case fatality rate stood at 1.34 per cent. While the national COVID-19 positivity rate has improved to 96.72 per cent, the weekly case positivity rate has come down to 2.97 per cent.

According to the Health Ministry data, the daily positivity rate was recorded at 2.79 per cent. It has been less than 5 per cent for 19 consecutive days.

India administered 61.39 lakh vaccine doses in a day taking the cumulative number of jabs given so far under the nationwide inoculation drive to 31.60 crore, according

Tender No. GCSC/Event/2021-22/167  
**Gujarat Council of Science City**  
 Science City Road, Ahmedabad-48. Phone : 9179 2873122  
 Mail: mail-gcsc@gujarat.gov.in • Web: www.gscj.gujarat.gov.in

GCSC invites tenders for Engagement of an Agency for organizing the inauguration event of galleries at Gujarat science city, Ahmedabad.

Details of the above mentioned tender can be downloaded from www.gscj.gujarat.gov.in, and www.rprocure.com. Interested Parties may read and download tender documents. Last date for the submission of the tender is 06-07-2021 up to 1800 hrs.

Date: 27-06-2021 Executive Director

**M/s. Aarti Industries Limited (Unit III)**  
 Plot No. 2/111/B, GIDC, Nefted Industrial Estate, SEZ-II, Dahaj, Tal. Vagra Dist: Bharuch, Gujarat

**Environmental Clearance**

This is to inform Public that the State Level Environment Impact Assessment Authority (SEIAA), Gandhinagar, Gujarat has accorded the Environment Clearance (EC) for setting up of the proposed expansion project of Synthetic Organic Chemicals manufacturing plant within existing premises by M/s. Aarti Industries Limited (Unit III) at 2/111/B, GIDC Nefted Industrial Estate, SEZ-II, Dahaj, Tal. Vagra Dist: Bharuch, Gujarat - vide File no. SEIAA/OUA/EC/6/01/922/2021, dated 22nd June, 2021. A copy of the clearance letter is placed at office of Gujarat Pollution Control Board (Bharuch & Gandhinagar) and may also be seen at website of State Level Environment Impact Assessment Authority, Gandhinagar, Gujarat at <http://www.gujarat.gov.in>

Date: 23.06.2021 Sd/ Director

WHEN YOU ARE A LEADER, CREDIBILITY IS NOT A QUALITY YOU SEEK, IT IS A HABIT YOU CAN'T QUIT.

**MUNICIPAL CORPORATION C**  
 E-TENDER NOTICE

Name of Work Bid S/ Sched



AIL/DHQ/SAF/2023/ENV/039  
Date: 28/11/2023

GPCB ID : 62935

To,  
The Regional Officer,  
Gujarat Pollution Control Board,  
Bharuch.

**Subject:** Regarding Advertisement of Environment Clearance of M/s. Aarti Industries Limited (Unit III), Plot No. Z/111/B, Z/111/C & D, GIDC Notified Industrial Estate, SEZ-II, Dahej-392130, Taluka Vagra, Dist. Bharuch, Gujarat, India

**Respected Sir,**

We are pleased to inform you that our unit has been accorded environment clearance from the State Environment Impact Assessment Authority, Gujarat.

Herewith, we are submitting the copy of newspapers in which the advertisement given for Environment Clearance accorded by State Level Environment Impact Assessment Authority (SEIAA), Gujarat on 21<sup>st</sup> November 2023 vide letter no. SEIAA/GUJ/EC/5(f)/1457/2023.

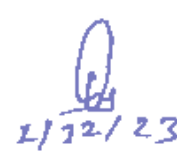
The advertisements are given in the local editions of "Sandesh" - Bharuch & Narmada - Pg. No. - 05 (in Gujarati) and "The Times of India" - Ahmedabad pg. No. - 09 (in English) published on 27<sup>th</sup> November 2023, Monday.

Thanking you,  
Yours Faithfully

For, Aarti Industries Limited (Unit-III)

  
Authorized Signatory



  
1/12/23  
Gujarat Pollution Control Board  
Head Office  
Sector No.-10-A,  
Gandhinagar

Copy to:

1. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar-382010.

Enclosure:

Advertisement in Newspaper Edition of - Sandesh & The Times of India

[www.aarti-industries.com](http://www.aarti-industries.com) | CIN : L24110GJ1984PLC007301

Regd. Office : Plot No. 801,801/23, IIIrd Phase, GIDC Vapi-396195, Dist - Valsad. INDIA. T : 0260-2400366

Factory : Plot No. Z/111/B, Dahej Sez II, Tal. Vagra, Dist. Bharuch, Gujarat - 392130. INDIA.

Admin. Office : 71, Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (W), Mumbai - 400080, INDIA.

T : 022-67976866, F : 022-2565 3234 | E : [info@aarti-industries.com](mailto:info@aarti-industries.com)

Proposal No : SIA/GJ/IND3/419266/2023

Proposal Name : Chemicals by M/s. Aarti Industries Limited (Unit-III)

Category : Industrial Projects - 3

MoEF File No. : SIA/GJ/IND/29703/2023

Compliance Letter/Report

Year of Compliance: -All Years-

Date of Compliance \* : Select

Remarks :

Upload Compliance Letter/Report \* : Choose file No file chosen (.pdf only)

**SUBMIT**

Sno.	Proposal No.	Uploaded copy of Compliance report	Remarks	Uploaded Date	Delete
1	SIA/GJ/IND3/419266/2023	1128202382603103SAFFRONZ_111_BECCOMPLIANCE(1).pdf	M/s. Aarti Industries Limited (Unit-III) Six month EC Compliance from April 2023 to September-2023 for The EC File no. SEIAA/GUJ/EC/5(f)/1360/2018 & EC Amenent file No. SEIAA/GUJ/EC/5(f)/922/2021	28/11/2023	

Ref.No: AIL/DHJ/SAF/2023/ENV/027

Date: 22/11/2023

To,  
Deputy Director General,  
MoEF-CC, 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 of April-2023 to September-2023.

Reference:

1. Environment Clearance letter no SEIAA/GUJ/EC/5(f)/1360/2018 dated 14/12/2018
2. Environment Clearance letter no SEIAA/GUJ/EC/5(f)/922/2021 dated 22/06/2021
3. CTE Amendment No. 124234 dated 05/04/2023, Valid upto. 13/09/2029

Respected Sir,

With reference to the subject cited above, we are enclosing herewith the compliance report (monitoring period April-23 to September-23 as per condition number 100 as mentioned in environment clearance letter No.SEIAA/GUJ/EC/5(f)/1360/2018 dated 14/12/2018 for our project 'Synthetic Organic Chemicals' by M/s. Aarti Industries Limited Plot No. Z/111/B, Dahej SEZ-II, Tal. Vagra, Dist. Bharuch, Gujarat.

Kindly refer to the Environment Clearance letter no SEIAA/GUJ/EC/5(f)/922/2021 dated 22/06/2021, we have currently, the Unit has not started project implementation activity (construction activity) which are mentioned in the environmental clearance. We would submit the detailed condition wise EC Compliance report once the project implementation activities are started (i.e. Construction activities).

The unit has acquired adjacent plot no. Z/111/C & D and obtained CTE Amendment No. 124234 dated 05/04/2023 for Inorganic product Calcium Chloride (Cacl<sub>2</sub>)(Solid) and the same has been attached as [Annexure-1\(A\)](#).

Thanking You

Yours faithfully,  
For Aarti Industries Limited

Authorized Signatory

Encl: EC Compliance with Annexures.

Copy To

1. Email to The Regional Director, CPCB, Vadodara
2. Email to SEIAA, Gujarat
3. The Member Secretary, GPCB, Gandhinagar
4. Uploaded in MOEF&CC Portal



2/22/23  
Gujarat Pollution Control Board  
Head Office  
Sector No.-10-A,  
Gandhinagar-382010



OIC

## Forwarding & Undertaking Letter from Industry

Application for consent for establishing / operation the industrial plant / plants under Section 21 of the Air (prevention & Control of Pollution ) Act, 1981

**Important** This Document or its copy does "NOT" serve as a Supporting Document Proof of Industry's Submission of an  
**Note :** Application for a NOC / Consent. This Letter does "NOT" ensure that the Application FEES has been paid.

**Application Purpose :** To Consider EC as CTE We have received EC From SEIAA Gujarat for Expansion and plot addition. Now we are applying EC to CTE. Request to Grant.

**From :** Aarti Industries Ltd.(Unit-Iii), Category: RED / LARGE  
PLOT NO:Z/111/B,  
sez-ii, dahej,  
Dahej - 392130  
Contact Person: Shri Nishant Solanki, Mob:8530758924, Ph:9638831138  
DIST: Bharuch, TAL: Vagra, SIDC: SEZ2

Print Date: 29/04/2024

PCB-ID : 62935  
INWARD : 311481  
Dt:24/04/2024

To,  
The Member Secretary,  
Gujarat Pollution Control Board  
Paryavaran Bhavan, Sector-10/A,  
Gandhinagar - 382010

Scrutinized By:

I / We here by Submitting application for CCA ,Inward No : 311481 ,Date : 24/04/2024 for ECC(Environment Clearance).

Applying For : EC Validity : Years Grant By : ROH

Air Sector : Water Consumption : klpd

Haz Sector : No of Plants : 1 Incenerator : 0

Investment Air Water Hazardous

524.80 Crs +  
500000 Rs 0 Years 0 Years 0 Years

Payable Fees : Air : 0, Water : 0, Haz : 0

Paid Amount : 500000, DD No : YAXC2307981424, Dt: 4/23/2024, at AXC , \*\*\*

Blue ink 13/5/24  
Post Received  
Gujarat Pollution Control Board  
BHARUCH


Query / Reply:

I / We have Uploaded the following PDFs	Date	# Files	Size(kb)	#Page
1 EAR - Env. Audit Compliance/Auditor Recommendations,3Pgs	28/03/24	0	0	0
2 ENV - Environment Statement , Form-V	24/08/23	1	0	0
3 ANN - Annual Return : Form 4	23/06/23	0	0	0
4 MEM - Member of CETP / TSDF ? Certificate	25/01/23	1	10162	42
5 LPD - Land Possession Documents	20/01/23	1	1912	4
6 PLI - PLI Policy	19/01/23	1	1149	38
7 SSI - SSI-IEM-C.A Certi / Investment Proofs	29/12/22	1	873	4
8 EIA - Executive Summary Statement	22/12/22	1	182	18
9 CMP - Compliance of earlier CCAs - (ONLY Renewal cases)	14/12/22	1	14060	198
10 MOU - MOU	14/12/22	1	7080	39
11 UNT - Undertaking of Non Applicability of Air/Water/Haz	18/11/22	1	5102	12
12 C&A - Previous Consent-Reject / CCA Order / NOC Order	18/11/22	1	3189	62
13 DIR - List of Directors / Partners	18/11/22	1	1858	4
14 PLL - Plan LayOut + Site Plan	07/09/22	1	3810	3
15 ETP - ETP Details+Diagram	07/09/22	1	1260	33
16 APC - Air Pollution Control Measures-Details	07/09/22	1	433	15
17 000 - Any Specific Information Called for [in SCRUTINY]	24/12/21	1	23379	232
18 OCP - Odour Control Plan	19/02/20	1	39	1
19 TFS - Treatability/Feasibility Study Report	18/05/18	1	500	9
20 ISO - ISO Certification		0	0	0

I, the applicant declare that I have submitted full and complete documents and information in conformity to the applicable acts / rules. I am aware that, any delay / rejection in the processing of application on account of incorrect / incomplete information shall be mine responsibility.



For AARTI INDUSTRIES LTD.

  
: Authorised Signatory

(Mr. Premnath R, Senior Manager)

Note: I am hereby enclosing along with my application.

Please Attach Copy of NEFT/RTGS Challan with this Letter if you are paying through NEFT/RTGS.



# B. A. DESAI & ASSOCIATES

Chartered Accountants

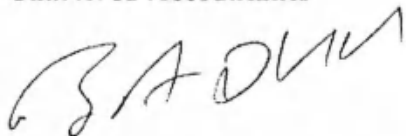
## TO WHOMSOEVER IT MAY CONCERN

This is to certify that M/s. Aarti Industries Limited (Unit-III) located at Plot No. Z/111/B,C & D Dahej SEZ-II, Tal: Vagra, Dist: Bharuch having its registered office at Plot No. 801/23, GIDC Estate, Vapi, Dist. Valsad has planned to invest / has made investment in fixed assets as under.

Sr. No.	Particulars	Cumulative Capital Investment (without depreciation) up to latest CTE in Amount (Rs. in Lakh)	Proposed capital investment (without depreciation) for this CTE application Amount (Rs. in Lakh)	Total Capital Investment (without depreciation) Amount (Rs. in Lakh)
1	Land & Building	13800	16500	30300
2	Plant & Machinery ( including DCS system & instrumentation)	35410	33000	68410
3	Miscellaneous (Environment Protection, EMS, Safety Equipments, Green Belt etc	3010	2980	5990
<b>Total Investment</b>		<b>52220</b>	<b>52480</b>	<b>104700</b>

The above details of investment are considered purely on the basis of documents, information & explanation provided to us by the firm and verification of documents made by us. All figures mentioned above are pertaining to Capital investment. The capital investment including Land & Building, Plant & Machinery and Miscellaneous cost **without depreciation** shall be considered as per Books of Account/Audit report.

**B. A. DESAI & ASSOCIATES**  
Chartered Accountants





M. No. 046220 [B. A. Desai]

Firm Regd. No. 113069W

Proprietor.

Date : 17.04.2024

Place: Vapi

UDIN: 24046220BKABWE6704

**File No.SIS/GJ/152109/2022**  
Government of India  
State Level Environment Impact Assessment Authority  
Gujarat  
\*\*\*

To,

M/s AARTI INDUSTRIES LIMITED  
Plot No. 801, 801/23, 806, 807 Phase III GIDC VAPI, Valsad, Gujarat,  
Valsad-396195  
Gujarat

**Tel.No.2645-22679; Email:env.saffron@aarti-industries.com**

**Sub. Terms of Reference to the Proposed Expansion Project for manufacturing of Synthetic Organic Chemicals (Dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)-5(f), Plot No. Z/111/B, Dahej SEZ-II, Dahej, Bharuch, Gujarat**

Dear Sir/Madam,

This has reference to the proposal submitted in the Ministry of Environment, Forest and Climate Change to prescribe the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining Environmental Clearance in accordance with the provisions of the EIA Notification, 2006. For this purpose, the proponent had submitted online information in the prescribed format (Form-1 ) along with a Pre-feasibility Report. The details of the proposal are given below:



## ACTIVITY 5(f)- SYNTHETIC ORGANIC CHEMICALS INDUSTRY

### STANDARD TERMS OF REFERENCE FOR EIA STUDIES FOR SYNTHETIC ORGANIC CHEMICALS INDUSTRY (DYES & DYE INTERMEDIATES; BULK DRUGS AND INTERMEDIATES EXCLUDING DRUG FORMULATIONS; SYNTHETIC RUBBERS; BASIC ORGANIC CHEMICALS, OTHER SYNTHETIC ORGANIC CHEMICALS AND CHEMICAL INTERMEDIATES)

#### GENERIC CONDITIONS

- 1) **Executive Summary**
- 2) **Introduction**
  - i. Details of the EIA Consultant including NABET accreditation
  - ii. Information about the project proponent
  - iii. Importance and benefits of the project
- 3) **Project Description**
  - i. Cost of project and time of completion.
  - ii. Products with capacities for the proposed project.
  - iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
  - iv. Details of existing products and production, if any, along with present product/production details in tabular format, to verify the compliance of the EIA Notifications.
  - v. Details of existing products and production, if any, along with present product/production details in tabular format, to verify the compliance of the EIA Notifications.
  - vi. List of raw materials required and their source along with mode of transportation.
  - vii. Other chemicals and materials required with quantities and storage capacities
  - viii. Details of Emission, effluents, hazardous waste generation and their management.
  - ix. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
  - x. Details of boiler/gensets (including stacks/exhausts) and fuels to be used
  - x. Details of boiler/gensets (including stacks/exhausts) and fuels to be used
  - xi. Process description along with major equipment's and machineries, process flow sheet (quantitative) from raw materials to products to be provided
  - xi. Hazard identification and details of proposed safety systems.
  - xii. Expansion/modernization proposals:



- Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land. Documents related to conversion of land for Industrial purpose.
  - xiii. R&R details in respect of land in line with state Government policy

**5. Forest, wildlife and CRZ related issues (if applicable):**

- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
- ii. Land-use map based on High resolution satellite imagery of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)
- iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
- iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden thereon
- v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area
- vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife
- vii. Recommendations and NOC from the concerned State/UT Coastal Zone Management Authority on CRZ angle

**5) Environmental Status**

- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
- AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests. Study should indicate minimum, maximum value of different parameters for the period (3 months) collected. Collected data should be supported by the reference data of either CPCB or SPCB. AAQ data & GLC of pollutants from stack emissions should suggest technology/ measures- Best Practiced Technology (BPT) indicating best achieved results.

- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 2,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.
- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

## **7) Occupational health**

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre-placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

## **8) Corporate Environment Policy**

- (xii). Emphasize on green fuels.
- (xiii). The project from NCR shall not use Coal as fuel. Further, PP shall avoid use of Coal in the CPAs and elsewhere also if alternatives are available.
- (xiv). Provide the Cost-Benefit analysis with respect to the environment due to the project.
- (xv). Details of carbon foot prints and carbon sequestration study w.r.t. proposed project needs to spelled out. Proposed mitigation measures also needs to be analyzed and submitted for further appraisal of the EAC

- 11) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.
- 12) A tabular chart with index for point wise compliance of above TORs and its details needs to be submitted in the EIA/EMP Report.

#### **SPECIFIC CONDITION**

1. Details on solvents to be used, measures for solvent recovery and for emissions control.
2. Details of process emissions from the proposed unit and its arrangement to control.
3. Ambient air quality data should include VOC, other process-specific pollutants\* like NH<sub>3</sub>\*,chlorine\*,HCl\*,HBr\*,H<sub>2</sub>S\*,HF\*,etc.,(\*-as applicable)
4. Work zone monitoring arrangements for hazardous chemicals.
5. Detailed effluent treatment scheme including segregation of effluent streams for units adopting 'Zero' liquid discharge.
6. Action plan for odour control to be submitted.
7. A copy of the Memorandum of Understanding signed with cement manufacturers indicating clearly that they co-process organic solid/hazardous waste generated.
8. Authorization/Membership for the disposal of liquid effluent in CETP and solid/hazardous waste in TSDF, if any.
9. Action plan for utilization of MEE/dryers salts.
10. Material Safety Data Sheet for all the Chemicals are being used/will be used.
11. Authorization/Membership for the disposal of solid/hazardous waste in TSDF.
12. Details of incinerator if to be installed.
13. Risk assessment for storage and handling of hazardous chemicals/solvents. Action plan

