



**AARTI
INDUSTRIES®**

Ref: AIL/DHJ/NEO/ENV/2024-25/007

Date: 27.05.2024

ID: 41201

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)/173/2013 dated 05/07/2013
2) Environment Clearance amendment Letter No. SEIAA/GUJ/EC/5(f)/547/2019 dated 10/04/2019
3) Environment Clearance Extension and amendment Letter No. SEIAA/GUJ/EC/5(f)/1639/2020 dated 31/12/2020
4) Environment Clearance Expansion Letter No. SEIAA/GUJ/EC/5(f)/2630/2022 dated 07/11/2022
5) Environment Clearance Amendment Letter No. SEIAA/GUJ/EC/5(f)/255/2024 dated 29/02/2024

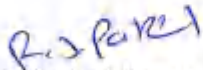
Respected Sir,

In reference to the above mentioned subject, Unit is enclosing herewith the compliance Report for the period of October-2023 to March-2024 in respect to the above mentioned references of Environment Clearance and its Amendments for Expansion of Synthetic organic chemicals industry (dyes & dye intermediates) manufacturing unit located at Plot No. Z/103/H, Dahej SEZ-II, Tal. Vagra, Dist. Bharuch, Gujarat.

Unit has obtained EC letter No. SEIAA/GUJ/EC/5(f)/173/2013 dated 05/07/2013, SEIAA/GUJ/EC/5(f)/547/2019 dated 10/04/2019, SEIAA/GUJ/EC/5(f)/1639/2020 dated 31/12/2020, SEIAA/GUJ/EC/5(f)/2630/2022 dated 07/11/2022, SEIAA/GUJ/EC/5(f)/255/2024 dated 29/02/2024 by M/s. Aarti Industries Limited formerly known as Anushakti Specialities Ltd. (Liability Partnership), Plot No. Z/103/H, Dahej SEZ-II, Tal. Vagra, Dist. Bharuch, Gujarat.

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

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/103/H, 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 : 022-67976666, F : 022-2565 3234 | E : info@aarti-industries.com

Compliance report of Environmental Clearance File No. SEIAA/GUJ/EC/5(f)/173/2013



Dated . 05/07/2013, October 2023 to March 2024

	Name of product / by-product	Capacity in MT/ Month	Compliance Status					Remarks
1	Ethylation and Propoylation Products	1500	Complied					Latest CCA copy is attached as Annexure-A . The unit is having a valid EC for same attached as Annexure-B
	2- Methyl 6- Ethyl Aniline		Production (MT)					
	2,6- Diethyl Aniline		Month	2-Methyl, 6-Ethyl Aniline (MEA)	2,6 - Diethyl Aniline (DEA)	3-Methyl 2-6 Diethyl Aniline (DEMA)	Total Ethylation and Propoylation Products	
	3- Methyl 2-6 Diethyl Aniline							
	4-Methyl 2-6 Diethyl Aniline		October 2023	0	0	248.5	248.5	
	Isopropyl Aniline and 2, 6 Diisopropyl Aniline		November 2023	211	152	0	363	
	2- Methyl-6-Isopropyl Aniline		December 2023	1251	0	0	1251	
	4- Methyl 2,-6 Diisopropyl Aniline		January 2024	1154	0	0.2	1154	
			February 2024	810.7	0	0	810.7	
			March 2024	1252	0	0	1252	
Remarks:- All the six months production is under the consented quantity. Unit has not produced Isopropyl Aniline and 2, 6 Diisopropyl Aniline, 2- Methyl-6-Isopropyl Aniline and 4- Methyl 2,-6 Di-isopropyl Aniline during October-2023 to March-2024.								
2	Hydrogenated Products	500	NIL					Presently the unit is not doing the Hydrogenation process. The unit has converted partial EC to CCA. CCA for this group was not taken. CCA copy is attached as
	Ortho Toluidine							
	Chloro Aniline							
	DiChloro Aniline							
	TriChloroAniline							
	Ortho Phenylene Diamine							

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

	Phenylene Diamine			Annexure-A.														
	3,4 Diamino Diphenyl Ether																	
	4,4 Diamino Diphenyl Ether																	
3	Chlorination Products		NIL															
	Monochloro Benzene	1250																
	Ortho Dichlorobenzene	800																
	Para Dichloro Benzene	1200																
By Products																		
4	Calcium Chloride (90% basis)* or HCL(30%)	2416.54 or 4844.22	—															
5	Al(OH) ₃ or Al ₂ O ₃	122.1 Or 79.65	<table border="1"> <thead> <tr> <th>Month</th> <th>Aluminum Hydroxide (Al(OH)₃) (MT)</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>441.77</td> </tr> <tr> <td>November 2023</td> <td>381.10</td> </tr> <tr> <td>December 2023</td> <td>711.82</td> </tr> <tr> <td>January 2024</td> <td>619.50</td> </tr> <tr> <td>February 2024</td> <td>521.60</td> </tr> <tr> <td>March 2024</td> <td>517.80</td> </tr> </tbody> </table>	Month	Aluminum Hydroxide (Al(OH) ₃) (MT)	October 2023	441.77	November 2023	381.10	December 2023	711.82	January 2024	619.50	February 2024	521.60	March 2024	517.80	Aluminum hydroxide Quantity revised to 12168 MT/Annum as per CCA No. AWH-116900 attached as Annexure-A.
Month	Aluminum Hydroxide (Al(OH) ₃) (MT)																	
October 2023	441.77																	
November 2023	381.10																	
December 2023	711.82																	
January 2024	619.50																	
February 2024	521.60																	
March 2024	517.80																	
6	HF	19.5	0	EC not converted into CCA.														
7	H ₃ BO ₃	20.25	0	CCA copy is attached as Annexure-A .														
Total		7785.94 MT/ Month or 10256.07 MT/ Month	Average production of 725.60 MT/Month in the compliance period (October 2023- March 2024).	Production is well within the limit. CCA converted to Ethylation & Propylation Group for 1500MT/ Month only.														

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

Sr. No.	EC conditions	Compliance status																								
A Specific Condition																										
1	<p>Fresh water requirement shall not exceed 614.6 KL/day and it shall be met by water supply of the Dahej SEZ. Metering of water shall be done and record of daily water consumption shall be maintained. No ground water shall be used for the project.</p> <p>As per Amended EC No. SEIAA/GUJ/EC/5(f)/547/2019, dated 10-04-2019 & Condition No. 1</p> <p>Total water requirement for the project shall not exceed 1186.5 KLD. Unit shall reuse 171.5 KLD of wastewater. Hence fresh water requirement shall not exceed 1186.5 KLD and it shall be met by the water supply system of the Dahej SEZ. Metering shall be done and records of daily water consumption shall be maintained. No ground water shall be used for the project. Prior permission from the concerned authority shall be obtained for withdrawal of water</p>	<p>Compiled.</p> <p>The Unit has got water supply permission from Dahej GIDC vide letter no. GIDC/BRH/WS/730. The copy of the permission letter of GIDC is attached as Annexure-1</p> <p>The tabular data below indicate that unit has not exceeded the prescribed limit for water consumption i.e. 1186.5 KLD. Metering facilities have been provided along with flowmeters and the records are maintained for water consumption. 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="508 625 1537 1255"> <thead> <tr> <th>Particular</th> <th>Unit</th> <th>Oct 2023</th> <th>Nov 2023</th> <th>Dec 2023</th> <th>Jan 2024</th> <th>Feb 2024</th> <th>Mar 2024</th> </tr> </thead> <tbody> <tr> <td>Fresh Water Consumptions</td> <td>Total KL/Month</td> <td>11892</td> <td>12357</td> <td>13087</td> <td>11214</td> <td>11574</td> <td>14373</td> </tr> <tr> <td>Recycled Water (RO Permeate + MEE Condensate) Consumptions</td> <td>Total KL/Month</td> <td>2569.3</td> <td>2372.9</td> <td>2539.6</td> <td>1976.5</td> <td>2413.3</td> <td>2600.7</td> </tr> </tbody> </table> <p>The water consumption is within the prescribed limit. In addition to this, the unit is also maintaining a logbook for the water consumption day-to-day basis. Photographs of water meter are provided below:</p> <div style="display: flex; justify-content: space-around;">   </div>	Particular	Unit	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Fresh Water Consumptions	Total KL/Month	11892	12357	13087	11214	11574	14373	Recycled Water (RO Permeate + MEE Condensate) Consumptions	Total KL/Month	2569.3	2372.9	2539.6	1976.5	2413.3	2600.7
Particular	Unit	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024																			
Fresh Water Consumptions	Total KL/Month	11892	12357	13087	11214	11574	14373																			
Recycled Water (RO Permeate + MEE Condensate) Consumptions	Total KL/Month	2569.3	2372.9	2539.6	1976.5	2413.3	2600.7																			

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

<p>2</p>	<p>Industrial effluent generation shall not exceed 86.85 KL/day whereas domestic wastewater generation shall not exceed 7 KL/day.</p> <p>As per Amended EC No. SEIAA/GUJ/EC/5(f)/547/2019, dated 10-04-2019 & condition no 2.</p> <p>Industrial effluent generation shall not exceed 165.85 KLD whereas domestic wastewater generation shall not exceed 7 KLD.</p>	<p>Complied</p> <p>The Industrial effluent generation has not exceeded 165.85 KLD whereas domestic wastewater generation has not exceeded 7 KLD. The total average of last six month data has been given in the table below:</p> <table border="1" data-bbox="483 386 1474 798"> <thead> <tr> <th rowspan="2">MONTH</th> <th colspan="2">Industrial Effluent generation</th> <th colspan="2">Domestic Waste Water generation</th> </tr> <tr> <th>KL/Month</th> <th>KL/Day</th> <th>KL/Month</th> <th>KL/Day</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>3249.8</td> <td>104.83</td> <td>198</td> <td>6.39</td> </tr> <tr> <td>November 2023</td> <td>3171.4</td> <td>105.71</td> <td>186</td> <td>6.20</td> </tr> <tr> <td>December 2023</td> <td>3202.21</td> <td>103.30</td> <td>194</td> <td>6.26</td> </tr> <tr> <td>January 2024</td> <td>2518.5</td> <td>81.24</td> <td>201</td> <td>6.48</td> </tr> <tr> <td>February 2024</td> <td>3014</td> <td>103.93</td> <td>179</td> <td>6.14</td> </tr> <tr> <td>March 2024</td> <td>3177</td> <td>102.48</td> <td>188</td> <td>6.06</td> </tr> </tbody> </table> <p>The water generation data is within the limit.</p>	MONTH	Industrial Effluent generation		Domestic Waste Water generation		KL/Month	KL/Day	KL/Month	KL/Day	October 2023	3249.8	104.83	198	6.39	November 2023	3171.4	105.71	186	6.20	December 2023	3202.21	103.30	194	6.26	January 2024	2518.5	81.24	201	6.48	February 2024	3014	103.93	179	6.14	March 2024	3177	102.48	188	6.06
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<p>3</p>	<p>Effluent to the tune of 25.85 KL/day (16.45 KL/day of process and washing effluent after solvent recovery by distillation, 2.4 KL/day of scrubber effluent and 7 KL/day of domestic wastewater) shall be treated in the ETP comprising of primary, secondary and tertiary treatment facilities.</p>	<p>Compiled.</p> <p>The unit is a Zero liquid discharge unit. The average daily generation of industrial effluent for the monitoring period is 5.45 m3/day. The effluent coming from various plants are collected and treated in ETP consists of :</p> <p>Primary Treatment: Stripper, 3 layer separation tank, Equalization tank, Flash Mixer (Coagulation), Flocculation Tank, Lamella Settler</p> <p>Secondary Treatment: Aeration Feed Tank, Aeration Tank, Secondary Clarifier</p> <p>Tertiary Treatment: RO, MEE & ATFD.</p> <p>And further treatment in RO followed by MEE & ATFD. The details of wastewater generation are given below,</p> <table border="1" data-bbox="483 1444 1568 1738"> <thead> <tr> <th colspan="8">Details of wastewater Treated</th> </tr> <tr> <th>Particular</th> <th>Unit</th> <th>Oct 2023</th> <th>Nov 2023</th> <th>Dec 2023</th> <th>Jan 2024</th> <th>Feb 2024</th> <th>Mar 2024</th> </tr> </thead> <tbody> <tr> <td>Total Treated Effluent</td> <td>Average KL/Month</td> <td>236.8</td> <td>307.2</td> <td>24.21</td> <td>28.5</td> <td>30</td> <td>31</td> </tr> <tr> <td>Total Treated Effluent</td> <td>Average KL/Day</td> <td>7.64</td> <td>10.24</td> <td>0.78</td> <td>0.92</td> <td>1.03</td> <td>1.00</td> </tr> </tbody> </table> <p>Domestic Effluent is being treated in STP and treated water is being used for Gardening for that the unit has obtained CTO No. AWH-112729 dated 15/06/2021</p>	Details of wastewater Treated								Particular	Unit	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Total Treated Effluent	Average KL/Month	236.8	307.2	24.21	28.5	30	31	Total Treated Effluent	Average KL/Day	7.64	10.24	0.78	0.92	1.03	1.00							
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M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

<p>4</p> <p>EC Condition as per EC 2013.</p> <p>25.85 KL/day of treated effluent from ETP, 20 KL/day of D.M generation effluent, 13 KL/day of boiler blow-down and 35 KL/day of cooling tower blow-down; i.e total 93.85 KL/day of effluent shall be passed through RO system. RO permeate water to the tune of 70.35 KL/day shall be reused in cooling tower whereas RO reject water to the tune of 23.5 KL/day shall be evaporated completely with the help of MEE. Hence, there shall be no effluent discharge from the unit.</p> <p>As per Amended EC #SEIAA/GUJ/EC/5(f)/547/2019 dated 10-04-2019 & condition no. 4.</p> <p>25.85 KLD of treated effluent from ETP, 50 KLD of DM generation effluent, 62 KLD of boiler blow down and 35 KLD of cooling tower blowdown i.e. Total 165.85 KLD of effluent shall be passed through RO system (Cap. 150 KLD + 60 KLD) and MEE (Cap. 60 KLD). RO Permeate (129 KLD) and MEE condensate (42.5 KLD) water to</p>	Complied									
	Particular	Unit	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024		
	Total Effluent Generation	Total KL/Month	3249.8	3171.4	3202.21	2518.5	3014	3177		
	Total Water Recycled to Cooling Tower	Total KL/Month	2569.3	2372.9	2539.6	1976.5	2413.3	2600.7		
Total Effluent Generation is combined of Utility & Process										
<p>Unit has Installed</p> <p>Primary Treatment: Stripper, 3 layer separation tank, Equalization tank, Flash Mixer (Coagulation), Flocculation Tank, Lamella Settler</p> <p>Secondary Treatment: Aeration Feed Tank, Aeration Tank, Secondary Clarifier</p> <p>Tertiary Treatment: RO, MEE & ATFD. for Industrial Process Effluent.</p> <p>For Utility (CoolingTower/Boiler Blowdown & DM Reject) effluent installed multiple RO plants.</p> <p>SPRO: 200 KLD HP RO: 50 KLD</p> <p>All Permeate of RO and MEE condensate will be recycled back into the cooling tower and the unit has maintained the Zero liquid Discharge.</p>										

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

	the tune of 171.5 KLD shall be reused in the cooling tower. Hence there shall be no effluent discharge from the unit.																	
5	Condensate water from MEE shall be completely reused in cooling towers.	<p>Complied. The unit is completely reusing condensate water from MEE in the cooling tower.</p> <table border="1"> <thead> <tr> <th>Particular</th> <th>Unit</th> <th>Oct 2023</th> <th>Nov 2023</th> <th>Dec 2023</th> <th>Jan 2024</th> <th>Feb 2024</th> <th>Mar 2024</th> </tr> </thead> <tbody> <tr> <td>Total Water Recycled Cooling tower From MEE</td> <td>Total KL/Month</td> <td>148.2</td> <td>130.0</td> <td>107.0</td> <td>96.5</td> <td>73.2</td> <td>87.3</td> </tr> </tbody> </table>	Particular	Unit	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Total Water Recycled Cooling tower From MEE	Total KL/Month	148.2	130.0	107.0	96.5	73.2	87.3
Particular	Unit	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024											
Total Water Recycled Cooling tower From MEE	Total KL/Month	148.2	130.0	107.0	96.5	73.2	87.3											
6	The unit shall provide adequate ETP consisting of primary, secondary & tertiary treatment facilities, RO plant and MEE for treatment and disposal of wastewater. These facilities shall be operated regularly and efficiently so as to achieve and maintain zero discharge status.	<p>Complied. Unit has Installed adequate ETP consisting of Primary Treatment: Stripper, 3 layer separation tank, Equalization tank, Flash Mixer (Coagulation), Flocculation Tank, Lamella Settler Secondary Treatment: Aeration Feed Tank, Aeration Tank, Secondary Clarifier Tertiary Treatment: RO, MEE & ATFD. for Industrial Process Effluent. For Utility (CoolingTower/Boiler Blowdown & DM Reject) effluent installed multiple RO plants. SPRO: 200 KLD HP RO: 50 KLD All Permeate of RO and MEE condensate will be recycled back into the cooling tower and the unit has maintained the Zero liquid Discharge.</p>																
7	The unit shall not get GIDC underground drainage connection and strictly adhere to the zero discharge status.	<p>Complied. Being a ZLD unit, no effluent is sent to the GIDC drain. The certificate(undertaking) for disconnection of drainage connection issued by concerned authority on 18/04/2016 is attached as Annexure-2. Unit has obtained EC as EC no: SEIAA/GUJ/EC/5(f)/547/2019 dated 10-04-2019. Unit has obtained CTO AWH 112729 dated 15-06-2021 for ZLD.</p>																
8	The unit shall provide a metering facility, maintain records of effluent treated, reused & evaporated and furnish it to the GPCB from time to time.	<p>Complied. Magnetic flow meters are provided and records are maintained for effluent treated, reused & evaporated. The unit is submitting the data as a monthly patrak & along with a hard copy for the same in GPCB.</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Effluent Generation Process + Utility (KL)</th> <th>Recycle in Cooling Tower (KL)</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>3249.80</td> <td>2569.30</td> </tr> <tr> <td>November 2023</td> <td>3171.40</td> <td>2372.90</td> </tr> </tbody> </table>	Month	Effluent Generation Process + Utility (KL)	Recycle in Cooling Tower (KL)	October 2023	3249.80	2569.30	November 2023	3171.40	2372.90							
Month	Effluent Generation Process + Utility (KL)	Recycle in Cooling Tower (KL)																
October 2023	3249.80	2569.30																
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M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

			December 2023	3202.21	2539.60
			January 2024	2518.50	1976.50
			February 2024	3014.00	2413.30
			March 2024	3177.00	2600.70
9	Proper logbook of ETP, RO plant and MEE operations and also showing chemical consumption, power consumption, quantities of effluent treated, reused, evaporated reused etc. Shall be maintained and furnished to the GPCB from time to time.	Complied. The unit is maintaining the logbook of ETP, RO plant and MEE operations and chemical consumption, power consumption, quantities of effluent treated, reused, evaporated reused etc. and the same has been verified on the site. For that the unit is submitting the data as monthly patrak in GPCB XGN. *Logbook Photo			
10	Regular performance evaluation of the ETP shall be undertaken every year to check its adequacy, through credible institutes like L.D.College of Engineering, NPC or such other institutes of similar repute, and its records shall be maintained.	Complied. The unit has done the ETP efficiency study from Pacific School of Engineering, Surat. Certificate for the same is attached as Annexure-3			
11	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 GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.	Complied. The unit has agreed to join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.			
12	EC Condition as per EC 2013. Natural gas to the tune of 2000 Kg/Hr, 187.5 Kg/Hr & 5 Kg/Hr shall	Complied Unit has used Natural gas as a fuel in Thermic Fluid Heater & Flaring respectively. The data of the last six months are given in the following table.			

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

	<p>be used as a fuel in boiler-1 (20 TPH), Thermic Fluid Heater & flaring respectively.</p> <p>As per Amended EC No. SEIAA/GUJ/EC/5(f)/547/2019, dated 10-04-2019 & Condition No. 12</p> <p>Natural gas to the tune of 187.5 Kg/Hr & 5 Kg/Hr shall be used as a fuel in Thermic Fluid Heater & Flaring respectively.</p>	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th colspan="3">Natural Gas Consumption</th> </tr> <tr> <th>Month</th> <th>Total Consumption (kg/Month)</th> <th>Total Consumption Kg/Hr</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>33870.89</td> <td>34.10</td> </tr> <tr> <td>November 2023</td> <td>29257.50</td> <td>30.50</td> </tr> <tr> <td>December 2023</td> <td>35515.59</td> <td>35.80</td> </tr> <tr> <td>January 2024</td> <td>34990.62</td> <td>35.30</td> </tr> <tr> <td>February 2024</td> <td>28877.14</td> <td>31.10</td> </tr> <tr> <td>March 2024</td> <td>39392.00</td> <td>39.70</td> </tr> </tbody> </table> <p>In order to use clean fuel for all of our operations, for preparation of food in the canteen, Natural gas is being used.</p> <p>Natural gas parameters are within the prescribed limit</p>	Natural Gas Consumption			Month	Total Consumption (kg/Month)	Total Consumption Kg/Hr	October 2023	33870.89	34.10	November 2023	29257.50	30.50	December 2023	35515.59	35.80	January 2024	34990.62	35.30	February 2024	28877.14	31.10	March 2024	39392.00	39.70
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Month	Total Consumption (kg/Month)	Total Consumption Kg/Hr																								
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February 2024	28877.14	31.10																								
March 2024	39392.00	39.70																								
<p>13</p>	<p>EC Condition as per EC 2013.</p> <p>Diesel to the tune of 270 Lit/Hr shall be used as a fuel in each of the D.G.Set (1000 KVA x 2 no.).</p> <p>As per Amended EC No. SEIAA/GUJ/EC/5(f)/547/2019, dated 10-04-2019 & Condition No. 12</p>	<p>Complied.</p> <p>The unit has installed three DG sets(1000 KVA x 2 & 1500 KVA x 1) as per the CCA No. AWH-112729, dated 15/06/2021. Records of diesel consumption month-wise given as below:</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Month</th> <th>Total Diesel Consumption (Ltr/Month)</th> <th>Diesel Consumption (Ltr/Hr)</th> </tr> </thead> <tbody> <tr> <td>Limit</td> <td colspan="2">As per EC 270 Lit/hr for each DG sets After, As per CCA 840 Lit/hr</td> </tr> <tr> <td>October 2023</td> <td>190.99</td> <td>0.26</td> </tr> <tr> <td>November 2023</td> <td>219.66</td> <td>0.31</td> </tr> <tr> <td>December 2023</td> <td>200.34</td> <td>0.27</td> </tr> <tr> <td>January 2024</td> <td>229.11</td> <td>0.31</td> </tr> <tr> <td>February 2024</td> <td>248.12</td> <td>0.36</td> </tr> <tr> <td>March 2024</td> <td>209.85</td> <td>0.28</td> </tr> </tbody> </table> <p>Diesel consumption under the prescribed limit.</p>	Month	Total Diesel Consumption (Ltr/Month)	Diesel Consumption (Ltr/Hr)	Limit	As per EC 270 Lit/hr for each DG sets After, As per CCA 840 Lit/hr		October 2023	190.99	0.26	November 2023	219.66	0.31	December 2023	200.34	0.27	January 2024	229.11	0.31	February 2024	248.12	0.36	March 2024	209.85	0.28
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<p>14</p>	<p>EC Condition as per EC 2013.</p> <p>Coal to the tune of 3333.3 Kg/Hr, 200 Kg/Hr & 200 Kg/Hr. Shall be used as a fuel in Boiler-2 (20 TPH), CaCO3 Drier & Ethylation Furnace respectively.</p>	<p>Complied</p> <p>Total Coal consumption in boilers with Average of 3.06 MT/hr received during October 2023 to March 2024. Presently the unit is not doing the Chlorination process. Hence there is no HCL generation. The unit has converted partial EC to CCA.</p>																								

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

<p>As per Amended EC No. SEIAA/GUJ/EC/5(f)/547/2019, dated 10-04-2019 & Condition No. 12</p> <p>Coal to the tune of 3333.3 Kg/Hr, 12917 Kg/Hr, 200 Kg/Hr & 200 Kg/Hr shall be used as a fuel in 20 TPH steam Boiler - 1, 67 TPH steam Boiler - 2, CaCO₃ Dryer Vent and Ethylation Furnace respectively.</p>	<p>Month</p>	<p>Coal Consumption in 67 TPH & 14 TPH boiler (MT/Month)</p>	<p>Coal Consumption for boiler (MT/day)</p>	<p>Coal Consumption for boiler (MT/Hr)</p>
	<p>Limit</p>	<p>11700</p>	<p>390</p>	<p>16.25</p>
	<p>October 2023</p>	<p>2586.00</p>	<p>83.40</p>	<p>3.48</p>
	<p>November 2023</p>	<p>2568.50</p>	<p>85.60</p>	<p>3.57</p>
	<p>December 2023</p>	<p>2684.50</p>	<p>86.60</p>	<p>3.61</p>
	<p>January 2024</p>	<p>1993.60</p>	<p>64.30</p>	<p>2.68</p>
	<p>February 2024</p>	<p>1898.38</p>	<p>65.50</p>	<p>2.73</p>
	<p>March 2024</p>	<p>1954.10</p>	<p>63.00</p>	<p>2.63</p>
<p>All the parameters are within the prescribed limit. We have regularize the stack while renewal of CCA AWH-112729 dated 15.06.2021. Refer as Annexure-D</p>				
<p>15</p>	<p>EC Condition as per EC 2013. ESP shall be provided for control of flue gas emission from the coal fired Boiler-2.</p> <p>Amended EC condition as per EC 2019. Adequate Electrostatic Precipitator - ESP as APCM shall be provided for control of flue gas emission from the coal fired Boilers (20 TPH & 67 TPH Boiler\</p>	<p>Complied.</p> <p>APCM systems have been installed for Boiler 67 TPH, 20 TPH such as ESP. Fly Ash being stored in a silo storage area</p>  <p>3 stage ESP and 80 m stack attached to boiler</p>		



Silo installed for fly ash storage & dusting free truck loading



Automated Lime feeding system for controlling SOx commission.

<p>16</p>	<p>Wet scrubbers shall be provided for control of flue gas emission from CaCO₃ Drier and Ethylation Furnace.</p>	<p>Complied. Alkali scrubber has been provided for control of HCl gas emission from the Ethylation and Propylation process. Furnace has been converted into the above said scrubber through CCA No. AWH-112729 & dated 15/06/2021.</p> <p>HCL emissions in the Ethylation and Propylation process are monitored by an approved NABL / GPCB/MOEF&CC authorized party (Unistar Environment & Research Labs Pvt. Ltd.). The results are given below table. Copy attached in the following table. See Annexure-4</p> <p style="text-align: center;"><u>Unistar NABL Certification No.: TC-7753</u></p>
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M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

		Month	HCl (mg/Nm3)	GPCB Limit
		October 2023	BDL	20 mg/Nm3
		November 2023	BDL	
		December 2023	BDL	
		January 2024	BDL	
		February 2024	BDL	
		March 2024	BDL	
		Note: BDL-Below Detection Limit		
		The results are below the prescribed limit.		
		Unit has not obtained CC&A for CaCO ₃ dryer as it is not a part of existing production for Ethylation & Propylation products.		
17	The process emission of HCL from CaCO ₃ reactor and HCL & Cl ₂ from Chlorination shall be controlled with the help of falling of Film Absorber followed by Alkali Scrubber.	<p>Complied.</p> <p>The unit has partially converted CCA No. AWH-112729 & dated 15/06/2021 only for ethylation and propylation products.</p> <p>The Emission details are mentioned in point no. 16.</p>		

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

18	The air pollution control equipment / systems shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at vent / stack outlets.	Complied. Flue gas emissions are monitored by an approved NABL / GPCB/MOEF&CC authorized party (Unistar Environment & Research Labs Pvt. Ltd.). The results are attached in the following table. Results for the same are attached as Annexure-5 .															
		<u>Unistar NABL Certification No.: TC-7753</u>															
		Table 1*	Boiler Stack (67 TPH)			D.G SET 1 (1000 KVA)			D.G SET 2 (1000 KVA)			D.G SET 3 (1500 KVA)			Boiler (14 TPH & 20 Lac-Kcal TFH)		
		Month	PM (mg /Nm ³)	SOx (ppm)	N Ox (ppm)	PM (mg /Nm ³)	SOx (ppm)	N Ox (ppm)	PM (mg /Nm ³)	SOx (ppm)	NOx (ppm)	PM (mg /Nm ³)	SOx (ppm)	NOx (ppm)	PM (mg/Nm ³)	SOx (ppm)	NOx (ppm)
		GPCB limits	150	100	50	150	100	50	150	100	50	150	100	50	150	100	50
		Oct 23	75	86	35	78	20	35	76	21	37	70	17	32	22	18	38
		Nov 23	72	81	32	76	23	36	73	20	34	68	16	31	24	19	35
		Dec 23	80	76	38	72	20	37	75	22	35	70	18	33	20	16	32
		Jan 24	85	78	35	75	22	38	78	20	36	74	20	37	26	20	34
		Feb 24	82	75	33	72	21	35	75	18	34	72	21	32	24	18	36
Mar 24	Not in Operation			72	20	34	75	22	38	68	18	32	24	18	33		
Note: BDL-Below Detection Limit																	
All Parameters are well within the limit.																	

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

19	Stacks of adequate height as per prevailing norms shall be provided for the flue gas and process emissions.	<p>Complied.</p> <p>Stacks of adequate height as per prevailing norms are provided for the flue gas and process emissions. Stack heights are given as below:</p> <table border="1" data-bbox="662 354 1386 726"> <thead> <tr> <th>Sr. No.</th> <th>Stack attached to</th> <th>Stack height (m)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Boiler-I (Capacity- 14 TPH)</td> <td rowspan="2">42 (Common)</td> </tr> <tr> <td>2</td> <td>Thermic Fluid Heater (Capacity- 20 Lac Kcal/Hr)</td> </tr> <tr> <td>3</td> <td>D G Set(Capacity- 1000 KVA)- 2 Nos.</td> <td>30</td> </tr> <tr> <td>4</td> <td>D G Set (Capacity- 1500 KVA)</td> <td>30</td> </tr> <tr> <td>5</td> <td>Boiler II (Capacity- 67 TPH)</td> <td>76</td> </tr> <tr> <td>6</td> <td>HCL Scrubber</td> <td>11</td> </tr> <tr> <td>7</td> <td>Reactor (NG consumption 5 kg/hr for flaring)</td> <td>18</td> </tr> </tbody> </table>	Sr. No.	Stack attached to	Stack height (m)	1	Boiler-I (Capacity- 14 TPH)	42 (Common)	2	Thermic Fluid Heater (Capacity- 20 Lac Kcal/Hr)	3	D G Set(Capacity- 1000 KVA)- 2 Nos.	30	4	D G Set (Capacity- 1500 KVA)	30	5	Boiler II (Capacity- 67 TPH)	76	6	HCL Scrubber	11	7	Reactor (NG consumption 5 kg/hr for flaring)	18
Sr. No.	Stack attached to	Stack height (m)																							
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7	Reactor (NG consumption 5 kg/hr for flaring)	18																							
20	The unit shall undertake measures of solvent recovery and adequate reflux condensers and chilled brine secondary condensers shall be provided for controlling escape of low boiling solvents. Solvent recovery shall not be less than 95 percent in any case.	<p>Complied.</p> <p>Unit is not using any type of solvent for the process.</p>																							
21	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.	<p>Complied.</p> <p>All process vents are in a closed loop. The venting of process vapor is done through a flare system. We continuously monitor VOC by portable instruments in the plant area. We are also monitored by NABL/MOEF & CC / GPCB authorized parties (Unistar Environment & Research Labs Pvt. Ltd.) on a monthly basis for the same.</p>																							
22	The fugitive emissions 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. Detectors of Industrial Safety & Health).	<p>Complied.</p> <p>The fugitive emissions in the work zone environment are monitored by in house facilities as well as done by a third party consultant who has a MoEF&CC/GPCB/NABL approved laboratory. Results of fugitive emissions (Form-37) are attached as Annexure-6</p>																							


M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

		<u>Unistar NABL Certification No.: TC-7753</u>																																																																																																											
		MONTH	Workplace Report / Form 37 (mg/m3)	Limit (As given in Schedule-II as per Factories Act 1948) (mg/m ³)																																																																																																									
		October 2023	2.12	10																																																																																																									
		November 2023	1.81																																																																																																										
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23	Regular monitoring of ground level contamination of SO ₂ , NO _x , HCL, Cl ₂ , PM ₁₀ and PM _{2.5} shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not be less the standards stipulated by GPCB. If any stage this 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>Complied.</p> <p>The unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) at upwind and downwind location by a MoEF approved laboratory (Unistar Environment & Research Labs Pvt. Ltd.). The results of the analysis are provided in the table. Copy of the analysis report has been attached as Annexure-7</p> <p style="text-align: center;"><u>Unistar NABL Certification No.: TC-7753</u></p> <table border="1"> <thead> <tr> <th rowspan="2">Location</th> <th rowspan="2">Parameters (microgram /m³)</th> <th colspan="6">Month</th> </tr> <tr> <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="4">Main Gate</td> <td>PM₁₀</td> <td>74.8</td> <td>74.5</td> <td>81.6</td> <td>75.6</td> <td>75.9</td> <td>74.9</td> </tr> <tr> <td>PM_{2.5}</td> <td>26.0</td> <td>25.0</td> <td>27.7</td> <td>26.0</td> <td>25.0</td> <td>26.0</td> </tr> <tr> <td>SO₂</td> <td>18.0</td> <td>19.1</td> <td>18.1</td> <td>22.2</td> <td>19.2</td> <td>18.0</td> </tr> <tr> <td>NO₂</td> <td>22.2</td> <td>25.9</td> <td>23.5</td> <td>26.4</td> <td>24.8</td> <td>21.5</td> </tr> <tr> <td rowspan="4">ETP</td> <td>PM₁₀</td> <td>82</td> <td>75.0</td> <td>75.9</td> <td>77.5</td> <td>74.7</td> <td>77.2</td> </tr> <tr> <td>PM_{2.5}</td> <td>30.7</td> <td>28.0</td> <td>25.9</td> <td>29.5</td> <td>27.6</td> <td>25.9</td> </tr> <tr> <td>SO₂</td> <td>22.1</td> <td>20.3</td> <td>22.3</td> <td>22.3</td> <td>20.0</td> <td>19.8</td> </tr> <tr> <td>NO₂</td> <td>27.4</td> <td>27.9</td> <td>26.4</td> <td>25.9</td> <td>25.5</td> <td>21.5</td> </tr> <tr> <td rowspan="4">Plant Office</td> <td>PM₁₀</td> <td>73</td> <td>75.3</td> <td>75.7</td> <td>74.6</td> <td>68.9</td> <td>75.7</td> </tr> <tr> <td>PM_{2.5}</td> <td>24.9</td> <td>29.6</td> <td>26.0</td> <td>27.6</td> <td>23.7</td> <td>25.9</td> </tr> <tr> <td>SO₂</td> <td>21.8</td> <td>24.8</td> <td>22.3</td> <td>21.0</td> <td>22.0</td> <td>17.2</td> </tr> <tr> <td>NO₂</td> <td>26.3</td> <td>29.0</td> <td>26.4</td> <td>25.3</td> <td>26.0</td> <td>22.3</td> </tr> </tbody> </table> <p>Note: N.D.- Not Detected, BDL - Below Detection Limit</p> <p>All the results are within the prescribed limit</p>							Location	Parameters (microgram /m ³)	Month						Oct 23	Nov 23	Dec 23	Jan 24	Feb 24	Mar 24	Main Gate	PM ₁₀	74.8	74.5	81.6	75.6	75.9	74.9	PM _{2.5}	26.0	25.0	27.7	26.0	25.0	26.0	SO ₂	18.0	19.1	18.1	22.2	19.2	18.0	NO ₂	22.2	25.9	23.5	26.4	24.8	21.5	ETP	PM ₁₀	82	75.0	75.9	77.5	74.7	77.2	PM _{2.5}	30.7	28.0	25.9	29.5	27.6	25.9	SO ₂	22.1	20.3	22.3	22.3	20.0	19.8	NO ₂	27.4	27.9	26.4	25.9	25.5	21.5	Plant Office	PM ₁₀	73	75.3	75.7	74.6	68.9	75.7	PM _{2.5}	24.9	29.6	26.0	27.6	23.7	25.9	SO ₂	21.8	24.8	22.3	21.0	22.0	17.2	NO ₂	26.3	29.0	26.4	25.3	26.0	22.3
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M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

<p>24</p>	<p>EC condition as per EC 2013.</p> <p>The Unit must strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008. Authorization from the GPCB must be obtained from collection / treatment / storage / disposal of hazardous wastes.</p> <p>Amended EC condition as per EC 2019.</p> <p>All possible efforts shall be made for Co-Processing of the hazardous waste prior to disposal into TSD/CHWIF.</p>	<p>Compiled.</p> <p>The unit has obtained permission from the GPCB CCA No. AH-131146, Issued on 02/03/2024 valid till 19/05/2028 for collection, storage and disposal of hazardous waste. The solid waste is disposed to BEIL, Ankleshwar, process waste is disposed to RSPL for co processing & Aluminium Hydroxide (Process Waste) is being sent to Pradip Overseas (Rule-9) for utilization as raw material in their process through manifest system and GPS.</p> <table border="1" data-bbox="483 422 1565 1325"> <thead> <tr> <th colspan="9">Monthwise Disposal Details</th> </tr> <tr> <th>Month</th> <th>ETP Sludge (35.3) (MT) Landfilling</th> <th>Process Residue (26.1) (MT) Pre-processing/ Incineration</th> <th>Spent Waste oil (5.1) (MT)</th> <th colspan="3">Aluminum Hydroxide/ Process Waste(26.1) (Rule-9, Pre-processing & incineration) (MT)</th> <th>Discarded Bags/Insulation Waste(33.1) (MT)</th> <th>Mix garbage (33.1) for co-processing (MT)</th> </tr> </thead> <tbody> <tr> <td>Limit</td> <td>482</td> <td>2000</td> <td>9</td> <td colspan="3">25543</td> <td>6.2</td> <td>—</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Rule-9</td> <td>Pre-processing</td> <td>Incineration</td> <td></td> <td></td> </tr> <tr> <td>October 2023</td> <td>27.57</td> <td>19.46</td> <td>0</td> <td>448.65</td> <td>0</td> <td>0</td> <td>0.95</td> <td>2.7</td> </tr> <tr> <td>November 2023</td> <td>9.68</td> <td>21.76</td> <td>0</td> <td>343.77</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>December 2023</td> <td>11.22</td> <td>0</td> <td>0</td> <td>670.3</td> <td>53.55</td> <td>0</td> <td>0.84</td> <td>0</td> </tr> <tr> <td>January 2024</td> <td>11.66</td> <td>17.99</td> <td>0</td> <td>638.82</td> <td>0</td> <td>0</td> <td>0</td> <td>3.1</td> </tr> <tr> <td>February 2024</td> <td>22.23</td> <td>16.44</td> <td>0</td> <td>501.32</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>March 2024</td> <td>39.76</td> <td>12.27</td> <td>0</td> <td>558.91</td> <td>0</td> <td>0</td> <td>0.41</td> <td>0</td> </tr> </tbody> </table> <p>All the disposed quantity are within the prescribed limit</p> <p>Unit is strictly complying with all the regulations mentioned in Hazardous waste rule, 2016 (Manifest-Form 10/Labeling-Form 8/ TREM Card- Form 9/Maintain Records- Form 3/ Annual return submission- Form 4 etc.</p>	Monthwise Disposal Details									Month	ETP Sludge (35.3) (MT) Landfilling	Process Residue (26.1) (MT) Pre-processing/ Incineration	Spent Waste oil (5.1) (MT)	Aluminum Hydroxide/ Process Waste(26.1) (Rule-9, Pre-processing & incineration) (MT)			Discarded Bags/Insulation Waste(33.1) (MT)	Mix garbage (33.1) for co-processing (MT)	Limit	482	2000	9	25543			6.2	—					Rule-9	Pre-processing	Incineration			October 2023	27.57	19.46	0	448.65	0	0	0.95	2.7	November 2023	9.68	21.76	0	343.77	0	0	0	0	December 2023	11.22	0	0	670.3	53.55	0	0.84	0	January 2024	11.66	17.99	0	638.82	0	0	0	3.1	February 2024	22.23	16.44	0	501.32	0	0	0	0	March 2024	39.76	12.27	0	558.91	0	0	0.41	0
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Month	ETP Sludge (35.3) (MT) Landfilling	Process Residue (26.1) (MT) Pre-processing/ Incineration	Spent Waste oil (5.1) (MT)	Aluminum Hydroxide/ Process Waste(26.1) (Rule-9, Pre-processing & incineration) (MT)			Discarded Bags/Insulation Waste(33.1) (MT)	Mix garbage (33.1) for co-processing (MT)																																																																																				
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				Rule-9	Pre-processing	Incineration																																																																																						
October 2023	27.57	19.46	0	448.65	0	0	0.95	2.7																																																																																				
November 2023	9.68	21.76	0	343.77	0	0	0	0																																																																																				
December 2023	11.22	0	0	670.3	53.55	0	0.84	0																																																																																				
January 2024	11.66	17.99	0	638.82	0	0	0	3.1																																																																																				
February 2024	22.23	16.44	0	501.32	0	0	0	0																																																																																				
March 2024	39.76	12.27	0	558.91	0	0	0.41	0																																																																																				
<p>25</p>	<p>The hazardous waste shall be stored in a separate designated hazardous waste facility with impervious bottom and leachate collection facility, before its disposal.</p>	<p>Complied.</p> <p>Dedicated hazardous waste storage is provided with a shed, impervious flooring and Leachate collection system.</p> <p>Photograph of same is attached below for your kind reference:</p>																																																																																										

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.


													
26	<p>ETP sludge shall be sent to the common TSDF. The unit shall obtain necessary membership of the nearest TSDF operator before commencing production activities.</p>	<p>Complied. Monthly sludge generation and disposal. Unit has valid membership of the TSDF(BEIL), SEPPL and RSPL. Copies of membership certificates are attached as Annexure-8</p>											
27	<p>Residues from hydrogenation and Chlorination shall be sent to the Common Hazardous Waste Incineration (CHWI) facility. The unit shall obtain membership of the nearest CHWI operator before commencing production activities.</p>	<p>Complied. Presently the unit is not doing the Hydrogenation and Chlorination process, as the unit is in the first phase of production 'Ethylation & Propylation group'.</p>											
28	<p>Spent catalyst shall be sold only to the registered recyclers / regenerators.</p>	<p>Complied. Unit did not generate any Spent Catalyst During October 2023 to March 2024.</p>											
29	<p>Used oil shall be sold only to the registered recyclers.</p>	<p>Complied. Used oil is sold to authorized registered recyclers named M/s. S.B.Lubricants, Bharuch, the party who is registered/ authorized by CPCB & GPCB. CCA number of M/s. S.B.Lubricants and renewal details. CCA No. AWH-115718 vide dated 03.11.2021 and valid upto 29.06.2026.</p> <table border="1" data-bbox="634 1692 1414 1862"> <thead> <tr> <th rowspan="2">Month</th> <th colspan="2">Spent Waste Oil (5.1) (MT)</th> </tr> <tr> <th>Generation</th> <th>Disposal</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>0.0</td> <td>0</td> </tr> <tr> <td>November 2023</td> <td>0.0</td> <td>0</td> </tr> </tbody> </table>	Month	Spent Waste Oil (5.1) (MT)		Generation	Disposal	October 2023	0.0	0	November 2023	0.0	0
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M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.



		<table border="1"> <tr> <td>December 2023</td> <td>0.0</td> <td>0</td> </tr> <tr> <td>January 2024</td> <td>0.0</td> <td>0</td> </tr> <tr> <td>February 2024</td> <td>0.0</td> <td>0</td> </tr> <tr> <td>March 2024</td> <td>0.5</td> <td>0</td> </tr> </table>		December 2023	0.0	0	January 2024	0.0	0	February 2024	0.0	0	March 2024	0.5	0											
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		All the disposed quantities are within the prescribed limit.																								
30	HCL (30%) shall be converted to Calcium Chloride in onsite CaCl ₂ plant and HCL (30%) shall be sold to sister concerns M/s. Aarti Salt & Chemical located at Plot No. A/1-6 & 9, Phase-1, GIDC, Vapi, only during unforeseen circumstances.	<p>Complied.</p> <p>Presently the unit is not doing the Chlorination process and has not installed CaCl₂ plant. Hence there is no HCL generation.</p> <p>As per the latest EC received, the unit has not taken any CaCL2 plant under EC SEIAA/GUJ/EC/5(f)/2630/2022.</p>																								
31	Other co-products / spent acids shall be sold only to authorized actual end consumers and records of sale shall be maintained and furnished to the GPCB from time to time.	<p>Complied.</p> <p>Unit has no generation of any spent Acid.</p> <p>Only Aluminum Hydroxide has been converted into hazardous waste through CCA number AWH-112729, dated 15/06/2021. Aluminum hydroxide is being sent to RSPL and Pradip Overseas (Rule-9) for utilization as raw material in their process through manifest system and AIS-140 based GPS tracking. Also we have intimated GPCB for the same. Sample copy attached as Annexure-9</p>																								
32	The discarded containers / drums / liners / bags shall be either reused or sold only to registered recyclers after its decontamination.	<p>Complied.</p> <p>The discarded containers / drums / liners / bags are sent to registered recyclers after its decontamination.</p> <table border="1"> <thead> <tr> <th rowspan="2">Month</th> <th colspan="2">Discarded containers / drums / liners / bags</th> </tr> <tr> <th>Generation</th> <th>Disposal</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>0.93</td> <td>0.95</td> </tr> <tr> <td>November 2023</td> <td>0.5</td> <td>0</td> </tr> <tr> <td>December 2023</td> <td>0..1</td> <td>0.84</td> </tr> <tr> <td>January 2024</td> <td>0.05</td> <td>0</td> </tr> <tr> <td>February 2024</td> <td>0.1</td> <td>0</td> </tr> <tr> <td>March 2024</td> <td>0.1</td> <td>0.41</td> </tr> </tbody> </table>		Month	Discarded containers / drums / liners / bags		Generation	Disposal	October 2023	0.93	0.95	November 2023	0.5	0	December 2023	0..1	0.84	January 2024	0.05	0	February 2024	0.1	0	March 2024	0.1	0.41
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33	The project management shall strictly comply with the provisions made in the factories Act, 1948 as well as Manufacture, Storage and Impact of Hazardous Chemical Rules, 1989 as amended in 2000 for handling of hazardous chemicals.	Complied. The project management strictly complies with the provisions made in the factories Act, 1948 as well as Manufacture, Storage and Impact of Hazardous Chemical Rules, 1989 as amended in 2000 for handling of hazardous chemicals.
34	Necessary approvals from PESO and concerned Govt. Authorities shall be obtained before commissioning of the project.	Complied. Necessary from PESO and concerned government authorities approval has been taken. Certificate has been surrendered to PESO office for solvent is attached as Annexure-10
35	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of hazardous chemicals; especially solvents and chlorine.	Complied. All the hazardous chemicals are stored and handled through a closed loop system. At present the unit is not using chlorine as the unit has EC converted partially to CCA.
36	Proper ventilation shall be provided in the work area.	Complied. All processing work areas are fully ventilated. The production block is designed in a way that natural draft ventilation is there constantly as the process plant has 4 side open areas for smooth flow of fresh air. Photograph for same is attached below for reference:

		
37	Storage and use of hazardous chemicals shall be minimized to the extent possible.	<p>Complied. We are maintaining a minimum inventory of hazardous chemicals.</p>
38	Hazardous materials storage shall be at an isolated designated location, bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.	<p>Complied. Separate Hazardous materials storage areas with dyke walls are provided. Photographs for your reference,</p>


		 <p style="text-align: center;">Hazardous chemical stored at isolated places along with dyke wall</p>
39	Storage of hazardous chemicals shall be in multiple small capacity tanks / containers instead of one single large capacity tank to reduce the risk.	Complied. Multiple small tanks have been provided for storage of hazardous chemicals.
40	All the storage tanks shall be fitted with appropriate controls to avoid any leakage. Close handling system for chemicals shall be provided.	Complied. Adequate measures have been taken to avoid any leakages, all the chemicals are transferred to the closed handling system. Safety valves, Breathing valves and adequate control systems like the DCS system have been provided on storage of hazardous chemicals. Provided level switch Monitoring at DCS system, Level transmission, Tank dyke area with pit for the collection of spillage & Leakages.
41	Personal Protective Equipment shall be provided to workers and its usage shall be ensured and supervised.	Complied. Sufficient Personal Protective Equipment are provided to all the workers like Safety goggles, safety shoes, helmet, dust mask, gas mask, hand gloves, etc. The unit is doing Regular training and supervision to ensure the proper usage of PPEs. A photograph for reference is attached below:

		
<p>42</p>	<p>First Aid Box and required antidotes for the chemical used in the unit shall be made readily available in adequate quantity at all times.</p>	<p>Complied. First Aid Box with required antidotes for the chemical used in the unit are made readily available in adequate quantity at all times. The Antidotes whose name is methylene blue for prevention from Cyanosis and Anti Snake Venom Serum for prevention from snake venom.</p> 
<p>43</p>	<p>Necessary tie up with the nearby doctor qualified for occupational health shall be made to ensure that the medical treatment is given within the</p>	<p>Complied. Unit has a tie up with the nearby doctor qualified for occupational health made to ensure that the medical treatment is given within the shortest possible time in case of any adverse conditions.</p> <p>Name of Doctor: Dr Naresh Gadhvi, Shrey Clinic, Dahej</p> <p>We also tied up with multispeciality hospitals at Bharuch location:</p> <ul style="list-style-type: none"> • Baroda heart Multispeciality Hospital

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	shortest possible time in case of any adverse conditions.	<ul style="list-style-type: none"> • Sunshine Global Hospital • Healing Touch Multispeciality Hospital 												
44	Training shall be given to all workers on safety and health aspects of handling chemicals.	<p>Complied. Training is given to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees are done on a regular basis. Training to all employees on handling chemicals is imparted regularly.</p> <table border="1" data-bbox="597 491 1438 678"> <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>113</td> </tr> </tbody> </table> <table border="1" data-bbox="605 747 1443 919"> <thead> <tr> <th>Month of Medical surveillance</th> <th>Total no. of Employees</th> <th>Total no. of Contract Employees</th> </tr> </thead> <tbody> <tr> <td>October-23 to March-24</td> <td>284</td> <td>1342</td> </tr> </tbody> </table>	Safety and Health aspects training to employees		Duration	No. of Employees Trained	October-23 to March-24	113	Month of Medical surveillance	Total no. of Employees	Total no. of Contract Employees	October-23 to March-24	284	1342
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45	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Acts and Rules.	<p>Complied. Occupational health surveillance of the workers is carried out on a half yearly basis and records are maintained as per the factory act.</p> <p>Following check up has been carried out in periodical medical checkup.</p> <ul style="list-style-type: none"> - General checkup (height, weight, pulse, BP etc) - Blood test (RBC, WBS, hemoglobin, platelets, blood group, differential count, G6PD etc) - Urine test (physical, chemical and microbial examination etc) - Vision test - Pulmonary function test - Audiometry - ECG - met Hb for specific workers <p>Details of health surveillance of the employees and contract workers are given below and attached as Annexure-11</p> <table border="1" data-bbox="695 1509 1352 1621"> <thead> <tr> <th>Month of surveillance</th> <th>Total no. of Employees</th> </tr> </thead> <tbody> <tr> <td>October-23 to March-24</td> <td>EMP= 284, Contract=1342</td> </tr> </tbody> </table>	Month of surveillance	Total no. of Employees	October-23 to March-24	EMP= 284, Contract=1342								
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46	The project management shall be prepare a detailed Disaster Management Plan (DMP) for the project as per the guidelines from	<p>Complied.</p> <p>Disaster Management Plan (DMP) for the project is Prepared as per the guidelines from Directorate of Industrial Safety and Health (DISH) and updated copy submitted on 15.03.2022. Received copy from DISH along with index is attached as Annexure-12.</p>												

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	Directorate of Industrial Safety and Health.	
47	All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act & Rules.	Complied. Hazardous chemicals transported as per the Motor Vehicle Act & Rules. Copy of Checklist attached as Annexure-13
48	All transporting routes within the factory premise shall have paved roads to minimize splashes and spillages.	Complied. All the roads are paved with RCC. Photograph for same is attached below: 

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49	<p>The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. On all source of noise generation. The ambient noise level shall confirm to the Environment (Protection) Act and Rules. Workplace noise level for workers shall be as per the Factories Act and Rules.</p>	<p>Complied. The noise levels in the plant conforms to the standards prescribed in the EP Act, 1986. Noise monitoring is carried out by a MoEF approved laboratory (Unistar Environment & Research Labs Pvt. Ltd.) Details of the noise levels at various locations are mentioned in the table below. Copy of the report has been attached as Annexure-14</p> <table border="1" data-bbox="508 390 1555 1423"> <thead> <tr> <th rowspan="3">Locati on</th> <th colspan="2" rowspan="2">GPCB Limit</th> <th colspan="12">Months</th> </tr> <tr> <th colspan="2">Oct 2023</th> <th colspan="2">Nov 2023</th> <th colspan="2">Dec 2023</th> <th colspan="2">Jan 2024</th> <th colspan="2">Feb 2024</th> <th colspan="2">Mar 2024</th> </tr> <tr> <th>Day</th> <th>Night</th> <th>Day</th> <th>Nigh t</th> <th>Day</th> <th>Night</th> <th>Day</th> <th>Night</th> <th>Day</th> <th>Night</th> <th>Day</th> <th>Night</th> <th>Day</th> <th>Night</th> </tr> <tr> <th colspan="15">Noise Level dB (A)</th> </tr> </thead> <tbody> <tr> <td>Near Main Gate</td> <td colspan="2" rowspan="7">Day @ 75 dB (A) Night @ 70 dB (A)</td> <td>52.8</td><td>48.2</td><td>55.4</td><td>50.4</td><td>57.1</td><td>51.2</td><td>59.2</td><td>52.4</td><td>60.5</td><td>53.6</td><td>60.5</td><td>53.4</td> </tr> <tr> <td>Near Materi al Gate</td> <td>52.6</td><td>49.1</td><td>54.2</td><td>51.3</td><td>56.5</td><td>50.8</td><td>57.5</td><td>51.2</td><td>58.2</td><td>52.5</td><td>58.2</td><td>52.1</td> </tr> <tr> <td>Near Boiler</td> <td>54.5</td><td>50.2</td><td>63.6</td><td>54.5</td><td>68.4</td><td>52.3</td><td>69.3</td><td>52.8</td><td>70.4</td><td>58.4</td><td>70.6</td><td>53.5</td> </tr> <tr> <td>Near ETP</td> <td>60.8</td><td>54.2</td><td>62.3</td><td>57.7</td><td>66.5</td><td>56.4</td><td>68.1</td><td>55.9</td><td>67.6</td><td>56.2</td><td>69.3</td><td>58.4</td> </tr> <tr> <td>Near MEA Plant</td> <td>63.2</td><td>55.4</td><td>64.7</td><td>56.6</td><td>70.5</td><td>55.2</td><td>71.1</td><td>56.1</td><td>72.2</td><td>57.3</td><td>68.4</td><td>57.2</td> </tr> <tr> <td>Near MEA-2 Projec t Area</td> <td>57.2</td><td>48.5</td><td>58.5</td><td>52.3</td><td>57.5</td><td>53.1</td><td>58.2</td><td>54.5</td><td>59.7</td><td>55.2</td><td>59.3</td><td>55.3</td> </tr> <tr> <td colspan="15">All the parameters are within the prescribed limit.</td> </tr> </tbody> </table>	Locati on	GPCB Limit		Months												Oct 2023		Nov 2023		Dec 2023		Jan 2024		Feb 2024		Mar 2024		Day	Night	Day	Nigh t	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Noise Level dB (A)															Near Main Gate	Day @ 75 dB (A) Night @ 70 dB (A)		52.8	48.2	55.4	50.4	57.1	51.2	59.2	52.4	60.5	53.6	60.5	53.4	Near Materi al Gate	52.6	49.1	54.2	51.3	56.5	50.8	57.5	51.2	58.2	52.5	58.2	52.1	Near Boiler	54.5	50.2	63.6	54.5	68.4	52.3	69.3	52.8	70.4	58.4	70.6	53.5	Near ETP	60.8	54.2	62.3	57.7	66.5	56.4	68.1	55.9	67.6	56.2	69.3	58.4	Near MEA Plant	63.2	55.4	64.7	56.6	70.5	55.2	71.1	56.1	72.2	57.3	68.4	57.2	Near MEA-2 Projec t Area	57.2	48.5	58.5	52.3	57.5	53.1	58.2	54.5	59.7	55.2	59.3	55.3	All the parameters are within the prescribed limit.														
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50	<p>The unit shall undertake the Cleaner Production Assessment study through the reputed institute / organization and shall form a CP team in the company. The recommendation thereof along with the compliance shall be furnished to the GPCB.</p>	<p>Complied. Unit is converted to closed pipe lines for caustic use in plants instead of manually handled. For cleaner production Ortho Toluidine is collected via stripper to direct storage tank instead of manual collection. Unit has provided zero liquid discharge (ZLD) instead of discharge to CETP for cleaner production. The Study has been conducted on a Cleaner Production by GPCB accredited schedule - I auditor. Certificate for the same is attached as Annexure-3.</p>																																																																																																																																																							

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<p>51</p>	<p>The company shall undertake following waste minimization measures:</p> <p>A. Metering and control of quantities of active ingredients to minimize waste.</p> <p>B. Reuse of by-products from the process as raw materials or as raw materials substitutes in Other process.</p> <p>C. Use of automated and close filling to minimize spillages.</p> <p>D. Use of close feed system into batch reactors.</p> <p>E. Venting equipment through a vapour recovery system.</p> <p>F. Use of high pressure hoses for equipment cleaning to reduce wastewater generation.</p> <p>G. Sweeping / mopping of floor instead of floor washing to avoid effluent generation.</p> <p>H. Regular preventive maintenance to avoid leakage, spillage etc.</p>	<p>A. Complied. Metering has been provided with active ingredients to minimize waste.</p> <p>B. Complied. The by-product generated by the unit (Al(OH)₃) is sent to the authorized party of Rule 9 (Pradip Overseas) where it is utilized in their process as raw material.</p> <p>C. Complied. Closed system is used for filling of materials to minimize spillage. DCS systems are provided for the process.</p> <p>D. Complied. "Close feed" system is used in batch reactors and continuous reactors.</p> <p>E. Complied. Venting equipment are connected to a recovery system like scrubber and condensers.</p> <p>F. Complied. High pressure hoses are used for equipment cleaning to reduce wastewater generation.</p> <p>G. Complied. Sweeping / mopping the floor instead of floor washing to avoid effluent generation.</p> <p>H. Complied. Regular preventive maintenance of pumps, agitators, blowers and mechanical seals of all equipment to avoid leakage, spillage etc.</p>
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52	<p>The unit shall have developed 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 at suitable open land on roadsides and other open areas within the GIDC / SEZ area or in near by locality / schools and submit an action plan of plantation for next three years to the GPCB.</p>	<p>Complied. Unit has developed a greenbelt within the premises as per the guidelines of CPCB. Photos for same are attached as below:</p>  
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<p>53</p>	<p>Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.</p>	<p>Complied. Low-angle sprinkler systems are provided for the green belt development within the premises. Photo for same is attached as per following:</p> <div style="display: flex; justify-content: space-around;">   </div>
<p>54</p>	<p>In the event of failure of any pollution control system adopted by the unit, the unit shall be safely close down and shall not be restarted until the desired efficiency of the control equipment has been achieved.</p>	<p>Complied In the event of failure of any pollution control system, the unit has been provided with one push stop procedure as well as DCS systems for safe shutdown.</p>

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55	<p>A separate Environment Management Cell equipped with full fledged, laboratory facilities shall be set up to carry out the Environment Management and Monitoring functions.</p>	<p>Complied Unit has developed a Central laboratory equipped with equipment such as pH meter, TDS meter, COD meter. Glassware, gas chromatography system, oven, muffle furnace, etc. to carry out testing of routine parameters. Currently the parameters measured in-house are pH, COD, TDS, MLVSS and MLSS with a fully equipped laboratory. An experienced environmental engineer holding a BE (Environmental Engineering) degree has been deputed to monitor the environmental management systems along with a supporting zonal team of 4 Environmental Engineers and a Manager. A centralized environment cell stationed at the Corporate office headed by a Vice President under a team of Chief Manager, Senior Manager and 4 engineers who drives and monitors environment policy and performance.</p>
56	<p>The funds earmarked for environmental protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported.</p>	<p>Complied.</p>
57	<p>During material transfer spillage shall be avoided and gulland drain to be constructed to avoid mixing of accidental spillage with domestic wastewater and stormwater.</p>	<p>Complied. For transfer of material to a tanker or tanker to a tank, a dyke wall has been made to prevent spillage and mixing with domestic & stormwater. For the transfer of effluent to ETP, dedicated pits with automated pumps are present to prevent overflow. Photo of dyke wall is attached as per following:</p> 

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

58	<p>Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.</p>	<p>Complied. PCC flooring has been provided for work areas, chemical storage areas and chemical handling areas to minimize soil contamination. Photographs have been attached for your reference.</p> 												
59	<p>Leakage from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.</p>	<p>Complied. Preventive maintenance program is scheduled for minimal leakages from pipes & pumps. A sample PM checklist is attached as Annexure-15</p>												
60	<p>EC condition as per EC 2013. The company shall carry out socio-economic developmental / community welfare activities in consultation with the District Development Officer / District collector.</p> <p>Amended EC condition as per EC 2019. Unit shall comply provisions of MoEFCC's O.M. No. 22-65/2017-IA.III dated 01/05/2018 regarding Corporate Environment Responsibility (CER). Fund allocation of Corporate Environment Responsibility (CER)</p>	<p>Complied. Our unit has provided funds for socio-economic development as well as government development.</p> <p>The CER activities details are in the following table Annexure-16</p> <table border="1" data-bbox="483 1220 1424 1497"> <thead> <tr> <th>Sr.no.</th> <th>Plant Location</th> <th>Name of Associated NGO</th> <th>Expended Amount (In lacs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>AIL Dahej</td> <td>Sewa Rural</td> <td>00.41</td> </tr> <tr> <td>2</td> <td>AIL Dahej</td> <td>Greenbelt development opposite to Tatva Chintan Plant</td> <td>80.00</td> </tr> </tbody> </table>	Sr.no.	Plant Location	Name of Associated NGO	Expended Amount (In lacs)	1	AIL Dahej	Sewa Rural	00.41	2	AIL Dahej	Greenbelt development opposite to Tatva Chintan Plant	80.00
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M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

	<p>shall be made as per the said OM dated 01/05/2018 for various activities therein. Item-wise details along with time bound action plan shall be prepared and submitted to the concerned authorities.</p>	
<p>61</p>	<p>The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the EIA report.</p>	<p>Complied. Unit takes necessary action to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the EIA report.</p>
<p>62</p>	<p>The project proponent shall also comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other component authority for the purpose of the environmental protection and management.</p>	<p>Noted by the unit and will be compiled.</p>
<p>63</p>	<p>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>	<p>Noted. We will take prior permission for any expansion or modification.</p>

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

64	<p>The project authority 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.</p> <p>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 for these following implements;- 3.50 Cr.</p> <ul style="list-style-type: none"> ● MEE condensate to be diverted from SPRO input to Aeration feed tank/Equalization tank of ETP input with cooling arrangement and Stripper bottom to equalization tank cooling arrangement ● Installation of Gate valves at material gate in storm water discharge trench and routing to ETP equalization tank and storm water holding pit to be installed with sensor and camera monitoring ● Installation of sodium hypochlorite dosing system in outlet of STP. ● To install MBBR plant for Sewage & canteen waste water treatment. ● Digital green board requirement outside of main gate. ● Rain Water Harvesting system. ● Ambient air monitoring station height to be increased up to 3 meters as per guideline. ● Taken MOC for installing ATFD for solidification of Al(OH)₃. ● Separate tank for MEE condensate utilization. ● 4500 nos. tree plantation opposite to M/s. Tatva chintan plant as a CER activity. ● Three layer separation tank at process plant for minimization of effluent.
65	<p>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 GPCB and may also 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 newspaper that are widely circulated in the region, one of which shall be in the Gujarati languages 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>Due to oversight, the advertisement of EC was not published within the stipulated time period. We deeply regret not publishing the advertisement of EC within the stipulated time period.</p>
66	<p>It shall be mandatory for the project management to submit a half-yearly</p>	<p>Complied.</p> <p>Last compliance report was submitted on 28.11.2023 for the period of April-2023 to September-2023 to SPCB & MoEF&CC.</p>

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

	<p>compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned. On 1st June and 1st December of each calender year.</p>	<p>Copy of the same is attached herewith as Annexure-17</p>
67	<p>EC condition as per EC 2013. The project authorities shall also adhere to the stipulation made by the Gujarat Pollution Control Board.</p> <p>Amended EC condition as per EC 2019. The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.</p>	<p>Noted. Our unit is adhering to the stipulation made by the Gujarat Pollution Control Board. CC&A compliance report is attached as Annexure-18</p>
68	<p>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>	<p>Noted by the unit and it is complied. The date of start of the project is 01/01/2014 by concerned authority LOA Copy Received from SEZ:- 14/03/2012. Attach Copy LOA Copy attached as Annexure-19</p>
69	<p>The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.</p>	<p>Noted.</p>


M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

70	<p>The company in a time bound manner shall implement these conditions. The SEIAA reserves the rights to stipulate additional conditions, if the same is found necessary. 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.</p>	<p>Noted. We will implement all the rules and regulations prescribed from time to time.</p>
71	<p>This environmental clearance is valid for five years from the date of issue.</p>	<p>Noted, The Environment Clearance No. SEIAA/GUJ/EC/5(f)/173/2013; Dated: 05/07/2013 is valid for five year from the date of issue. Unit has obtained EC extension No.SEIAA/GUJ/EC/5(f)/1639/2020 dated 31 Dec 2020. Copy is attached as Annexure-B.</p>
72	<p>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.</p>	<p>Noted.</p>
<p>Amended EC vide File No. SEIAA/GUJ/EC/5(f)/547/2019 dated 10/04/2019 condition as per EC 2019. Additional conditions under Environment Clearance for period October-2023 to March-2024</p>		

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.


1	Unit shall remove existing natural gas based 20 TPH steam Boiler.	Complied Unit has removed 20 TPH Boiler. The same is incorporated in CCA AWH-112729 dated 15/05/2021.
2	There shall be no change in product profile as prescribed in the earlier Environmental Clearance dated 05/07/2013.	Complied Unit has not been adopted for any change in product profile as prescribed in the earlier Environmental Clearance dated 05/07/2013. The same can be referred to in the CCA no. AWH-112729 dated 15/06/2021.
3	Unit shall take all precautionary measures during transfer of steam to their sister concern units namely M/s. Aarti Industries Ltd. (Unit II) located at Plot No. Z/103/H & M/s. Aarti Industries Ltd. (Unit III) located at Z/111/B.	Complied. Unit has taken all safety precautionary measures during transfer of steam to M/s. Aarti Industries Ltd. (Unit II) located at Plot No. Z/103/H & M/s. Aarti Industries Ltd. (Unit III) located at Z/111/B. The unit has ensured the pipe laying above a sturdy pipe rack, pipes are insulated with aluminum cladding, flangeless IBR welding joints are employed to ensure highest level of safety.
4	Unit shall obtain necessary permissions, if any, from the concerned authority regarding laying the piping network for steam supply.	Complied Unit has taken the necessary permission from the concerned authority. (SEZ/GIDC). Annexure-20
5	Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.	Complied Unit will analyze and maintain the records. Report of Sulphur and Ash Content of the fuel is attached as Annexure-21 and it is recorded regularly.
6	A long term study of radioactivity and heavy metals contents on coal/lignite to be used shall be carried out through a reputed institute and results	Noted for compliance. Unit has studied the heavy metal contents on coal/lignite. The attachment is as Annexure-22 for your reference.

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

	<p>thereof analyzed regularly and reported along with monitoring reports. Thereafter mechanisms for an in-built continuous monitoring for radioactivity and heavy metals in coal/lignite and fly ash n(including bottom ash) shall be put in place.</p>	
<p>7</p>	<p>A flue gas stack of 80 m height shall be provided with an online monitoring system to proposed steam boiler. Mercury emission from stacks shall also be monitored on a periodic basis. However, unit shall comply with the specific condition no. 13 above regarding the height of the Boiler stack.</p>	<p>Complied Height of the Stack is 80m and an online monitoring system is provided. Photos of Stack and CEMS are attached as per following:</p> 
<p>8</p>	<p>High efficiency Electrostatic Precipitator (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed boilers. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB</p>	<p>Complied Three stages ESP is installed and It is connected to DCS. Flue gas monitoring is done on a monthly basis by a NABL approved third party. Reports for the same are attached as Annexure-5 Also, we have concluded ESP efficiency study from GPCB accredited Schedule-I auditor, Pacific School of Engineering, Surat. Certificate for the same is attached as Annexure-3.</p>

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

	<p>norms. The control system shall be designed and integrated in plant DCS is such a way that if emissions from ESP exceeds the specified standard prescribed in the Environment (Protection) Rules, 1986 as amended from time to time, utilization of boiler capacity shall reduce so that flue gas emission from the stack meets with the specified standards or reduce so that flue gas emission from the stack meets with the specified standards or boiler shall shut down totally.</p>	
<p>9</p>	<p>Third party monitoring of the functioning of the ESP along with its efficiency shall be carried out once in a year through a reputed institute/organization.</p>	<p>Complied Unit has initiated third party monitoring for the efficiency of ESP. The report for the same is attached as Annexure-3.</p>
<p>10</p>	<p>Limestone injection technology shall be adopted to control SO2 and it shall be ensured that SO2 levels in the ambient air do not exceed the prescribed standards.</p>	<p>Complied Lime addition system provision has been provided in the boiler to control the SO2 level. The results of stack monitoring attached as Annexure-5 indicates that the system is working properly and SO2 emission is within the limits. Photographs of the lime addition system are attached for your reference.</p>

		 <p style="text-align: center;"><u>Lime dosing system for SOX emissions control</u></p>
11	<p>The company shall prepare schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.</p>	<p>Complied Regular preventive maintenance of mechanical and electrical parts of ESPs and have assigned responsibility of preventive maintenance to the senior officer of the company. Preventive maintenance Schedule has been prepared and the unit is following the same. Annexure-23</p>
12	<p>Unit shall comply with 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 as</p>	<p>Noted for complied. The compliance report for same is Attached as Annexure-24</p>

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

	mentioned at Sr. No. XX.	
13	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.	Complied. We are sending 100 % Fly Ash to the end user for the purpose of brick manufacturing.
Amended EC condition as EC 2020, EC No. SEIAA/GUJ/EC/5(f)/1639/2020 dated 31/12/2020 April-2023 to September-2023		
1	Change in Condition No. 12, 13, 14,15, & 16 of the environmental clearance order no. SEIAA/GUJ/EC/5(f)/171 /2013 have been amended and shall be read as under and extension of validity of EC granted to M/s Aarti Industries Ltd for further three years i.e. 05/07/2023 with remaining condition uncharged in EC granted by SEIAA, Gujarat vide letter No. SEIAA/GUJ/EC/5(f)/171 /2013 dated :5 July 2013.	Noted & Complied

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

Amended EC condition as EC 2020, EC No. SEIAA/GUJ/EC/5(f)/1639/2020 dated 31/12/2020 April-2023 to September-2023

<p>i.</p>	<p><u>Condition No. 12 shall now be read as under:</u> 12. Unit shall not exceed fuel consumption for TFH, steam boiler, furnace and stand by DG set as mentioned below:</p> <table border="1" data-bbox="211 399 1006 1417"> <thead> <tr> <th>Sr. No.</th> <th>Stack attached to</th> <th>Type of fuel</th> <th>Quantity</th> <th>Stack height in meters</th> <th>APCM</th> <th>Parameters</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Boiler-I Capacity-20 TPH</td> <td>Coal</td> <td>3333.3 Kg/Hr.</td> <td rowspan="2">42 (Common chimney with Boiler)</td> <td rowspan="2">ESP</td> <td rowspan="6">SPM SO₂ NO_x</td> </tr> <tr> <td>2</td> <td>Thermic Fluid Heater Capacity-20 Lac. Kcal/Hr.</td> <td>Natural Gas</td> <td>187.5 Kg/Hr.</td> </tr> <tr> <td>3</td> <td>D.G. Set Capacity -1000 KVA</td> <td>Diesel</td> <td>270 Lit/Hr.</td> <td>11 Dia:220 mm</td> <td></td> </tr> <tr> <td>4</td> <td>D.G. Set Capacity -1000 KVA</td> <td>Diesel</td> <td>270 Lit/Hr.</td> <td>11 Dia:220 mm</td> <td></td> </tr> <tr> <td>5</td> <td>Ethlation Furnace Vent</td> <td>Coal</td> <td>150 Kg/Hr.</td> <td>42</td> <td>Wet Scrubber</td> </tr> <tr> <td>6</td> <td>Boiler-II Capacity-67 TPH</td> <td>Coal</td> <td>310 MT/Day.</td> <td>45 Dia:1400 mm</td> <td>ESP+ Lime dosing</td> <td>SPM SO₂ NO_x</td> </tr> </tbody> </table>	Sr. No.	Stack attached to	Type of fuel	Quantity	Stack height in meters	APCM	Parameters	1	Boiler-I Capacity-20 TPH	Coal	3333.3 Kg/Hr.	42 (Common chimney with Boiler)	ESP	SPM SO ₂ NO _x	2	Thermic Fluid Heater Capacity-20 Lac. Kcal/Hr.	Natural Gas	187.5 Kg/Hr.	3	D.G. Set Capacity -1000 KVA	Diesel	270 Lit/Hr.	11 Dia:220 mm		4	D.G. Set Capacity -1000 KVA	Diesel	270 Lit/Hr.	11 Dia:220 mm		5	Ethlation Furnace Vent	Coal	150 Kg/Hr.	42	Wet Scrubber	6	Boiler-II Capacity-67 TPH	Coal	310 MT/Day.	45 Dia:1400 mm	ESP+ Lime dosing	SPM SO ₂ NO _x	<p>Complied</p> <p>Unit has not exceeded the fuel consumption for TFH, steam boiler, furnace and stand by DG set.</p> <p>The details of fuel consumption data given as month wise. (last six months)</p> <table border="1" data-bbox="1063 556 1567 1281"> <thead> <tr> <th>Sr. No.</th> <th>Month</th> <th>Coal (MT/Day)</th> <th>Natural Gas (Kg/Hr.)</th> <th>Diesel (Lit./Hr.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Oct 2023</td> <td>83.4</td> <td>34.1</td> <td>0.26</td> </tr> <tr> <td>2</td> <td>Nov 2023</td> <td>85.6</td> <td>30.5</td> <td>0.31</td> </tr> <tr> <td>3</td> <td>Dec 2023</td> <td>86.6</td> <td>35.8</td> <td>0.27</td> </tr> <tr> <td>4</td> <td>Jan 2024</td> <td>64.3</td> <td>35.3</td> <td>0.31</td> </tr> <tr> <td>5</td> <td>Feb 2024</td> <td>65.5</td> <td>31.1</td> <td>0.36</td> </tr> <tr> <td>6</td> <td>Mar 2024</td> <td>63.0</td> <td>39.7</td> <td>0.28</td> </tr> </tbody> </table>	Sr. No.	Month	Coal (MT/Day)	Natural Gas (Kg/Hr.)	Diesel (Lit./Hr.)	1	Oct 2023	83.4	34.1	0.26	2	Nov 2023	85.6	30.5	0.31	3	Dec 2023	86.6	35.8	0.27	4	Jan 2024	64.3	35.3	0.31	5	Feb 2024	65.5	31.1	0.36	6	Mar 2024	63.0	39.7	0.28
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<p>ii.</p>	<p><u>Condition No. 13 shall now be read as under:</u> 13. Unit shall provide adequate APCM with flue gas generation sources as mentioned above:</p>	<p>Complied</p> <p>Unit has provided ESP and lime dosing provision as APCM to the boilers.</p>																																																																														
<p>iii.</p>	<p><u>Condition No: 14, 15 & 16 shall be considered as null and void.</u></p> <p>Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/5(f)/171/2013 dated 05/07/2013 shall remain unchanged.</p>	<p>Noted & Complied</p>																																																																														



GUJARAT INDUSTRIAL
DEVELOPMENT CORPORATION

GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION
STATE UNDERTAKING

PH: 242437/241184 FAX: (02642) 241902
GSTIN: 24AABCG803301Z

No. GIDC/BRH/WS/ 730

Date: 27/03/19

To,

M/s. Aarti Industries Ltd,
Plot No. Z-103/H,
SEZ-II, Dahej.

Sub: Demand Note for water connection for M/s. Aarti Industries Ltd - Plot No. Z-103/H at GIDC - SEZ-II Industrial Estate.

Ref: 1. Your Application dated 02/05/2019
2. Approval from competent authority on file dated 29/08/2019

In context to the above this is to inform you that water connection shall be released subject to the following requirements are fulfilled

Sr. No	Particular	Amount in Rs.
A	Capital Contribution for 1021.02 KLPD (i.e. 1186.50 - 165.48* = 1021.02 KLPD) at rate of 15.60 Crore per MGD	Rs. 3,50,37,600.00/-
B	Form fee	Rs. 100.00/-
C	Connection charges.	Rs. 1,000.00/-
D	Total (A+B+C)	Rs. 3,50,38,700.00/-
E	Total SGST (@9%)+CGST (@9%) on (D) **	Rs. 0.00/-
F	Three months deposit for 1186.50 KLPD (Prevaling water rate Rs 38.20 per KL)	Rs. 41,35,843.00/-
G	Previously paid deposit	(-) Rs. 3,49,031.00/-
H	Net payable 3 months' deposit (F-G)	Rs. 37,86,812.00/-
I	Total Payable amount (D+E+H)	Rs. 3,88,25,512.00/-
Rupees Three Crore Eighty Eight Lakh(s) Twenty Five Thousand Five Hundred Twelve Only		

* 165.48 KLPD has been given in waiver from 1186.50 KLPD due to plot in SEZ.

** As the unit comes under SEZ norms GST is exempted, hence not considered.

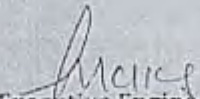
- You are requested to make payment of water charges Rs. 3,88,25,512.00/- by toward deposit by D.D. in favour of "Deputy Executive Engineer Water Supply Dahej" or RTGS (Account No. 26050200000283 IFSC code No-BARBODAHEJX) before 31/10/2019. Payment after due date will attract interest as per policy of corporation.
- All the plumbing work for service connection from the existing GIDC water supply line up to your plot including fixing of valve before meter should be fixed.
- Service connection shall have to be laid after taking due line-out from the concerned staff member of GIDC by providing G.I. pipe line of diameter of 100 mm - shall be laid as per rules and regulations of the corporation (Sketch is enclosed herewith).
- High precise Magnetic water - ACTARIS/ITRON Brand - meter should be fixed with protection chamber at about 0.60 Mt above ground level.
- Please submit the Agreement to be executed by you with GIDC on 300/- Rs stamp Paper (Blank copy of Agreement enclosed here with)
- The plot number and connection number should be written on chamber cover & road side wall of chamber if possible.
- You have to submit GPCB CTE before release of connection.
- Have your 7 days' storage tank/reservoir near water meter chamber to allow water to drop in the tank/reservoir. Also give your plot sketch approve by RM (Ank). (Underground storage)
- Please submit all the documents, agreement, Water Meter Test Reports, Payment Receipts, GPCB Consent Letter etc. at a time with covering letter informing inspection for service connection made ready by you with all as per sketch given to you. The inspection shall be carried out within a week's time and then procedure for release of water connection shall be given.

P.T.O.

10. You will have to pay reservation charge & other charge as demand by irrigation department, GIDC in future beyond the above amount.
11. Please submit the plan showing your plot premises marked on the development plan.
12. You have to submit time limit extension order from competent authority if moratorium period is over.
13. If the quantity of water is not available from the nearby GIDC water supply network, you have to lay the appropriate diameter size line from the nearest GIDC location from where the approved quantity is available at your own cost.
14. The GIDC water supply rules and regulations and also general norms shall be followed.

Please comply to all the above remarks, so that the connection can be released accordingly.

Encl: 1) Sketch showing service connection


Deputy Executive Engineer, (w/s)
GIDC, Bharuch.

Copy SWR to:

1. The Supt. Engineer(CG), GIDC, Bharuch... For information Please
2. The Executive Engineer(W/D), GIDC, Bharuch... For information Please.

Copy to:

1. The Accountant, GIDC, Bharuch... For information.

Annexure-I



ગુજરાત ગુજરાત GUJARAT **NOTARY**

AU 189555

NOTARY

૨૦૧૬-૧૭

તાલુકા નો નામ રજીસ્ટ્રાર અધિકારી



UNDERTAKING

I Mr.Sandip Parekh DGM-Production(Division Head) of M/s. Anushakti Specialties Limited Liability Partnership having their Admin office at 2nd floor, Udhyog Kshetra, Mulund Goregaon Link Road, Mulund Mumbai - 400 080, and having Factory at plot no.Z/103/H, Dahej SEZ II, Tal. Vagra, Dist. Bharuch, does hereby declare and state as under:

I undertake that the company has no outlet in GIDC underground Drain.

What is stated herein is true to the best of my knowledge and the same I believe to be true.

For, Anushakti Specialties L.L.P.

[Signature]

Sandip Parekh-DGM -Production (Division Head)



JAMA B. KHATRI

Notary (Govt. of India)
Ankleshwar & Bharuch
Block No. 4 Room No.39
Gujarat Housing Board
1st Talab, Ankleshwa

Date : 18/04/2016



The undersigned does not take any Responsibility for The Contents Produced of the Document. Applicant/Identifier/Witness before me Only



Pacific School of Engineering

(Approved by AICTE New Delhi & Affiliated to GTU, Ahmedabad)

Ref. No.: PSE/ENGG/CERT/21/58

Date:18/11/2021

PERFORMANCE EVALUATION OF EXISTING EFFLUENT TREATMENT PLANT AND ELECTRO-STATIC PRECIPITATOR

The Environmental Audit Scheme was introduced by the Gujarat High Court vide its orders dated 20/12/96 & 13/3/97 and modified vide order dated 16/9/99, 22/04/2010 & 23/1/2015. We are recognized by GPCB, Gandhinagar as Schedule- I Environmental Auditor for compliance of the directions of the Hon'ble High Court in this matter have collected and analyzed samples to evaluate performance evolution of existing Electro-static precipitator (ESP) and Effluent Treatment Plant (ETP) installed at:

A. M/s. Aarti Industries Ltd.

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

Taluka: Vagra, Dist. Bharuch, Gujarat.

B. BACKGROUND OF ETP AND ESP:

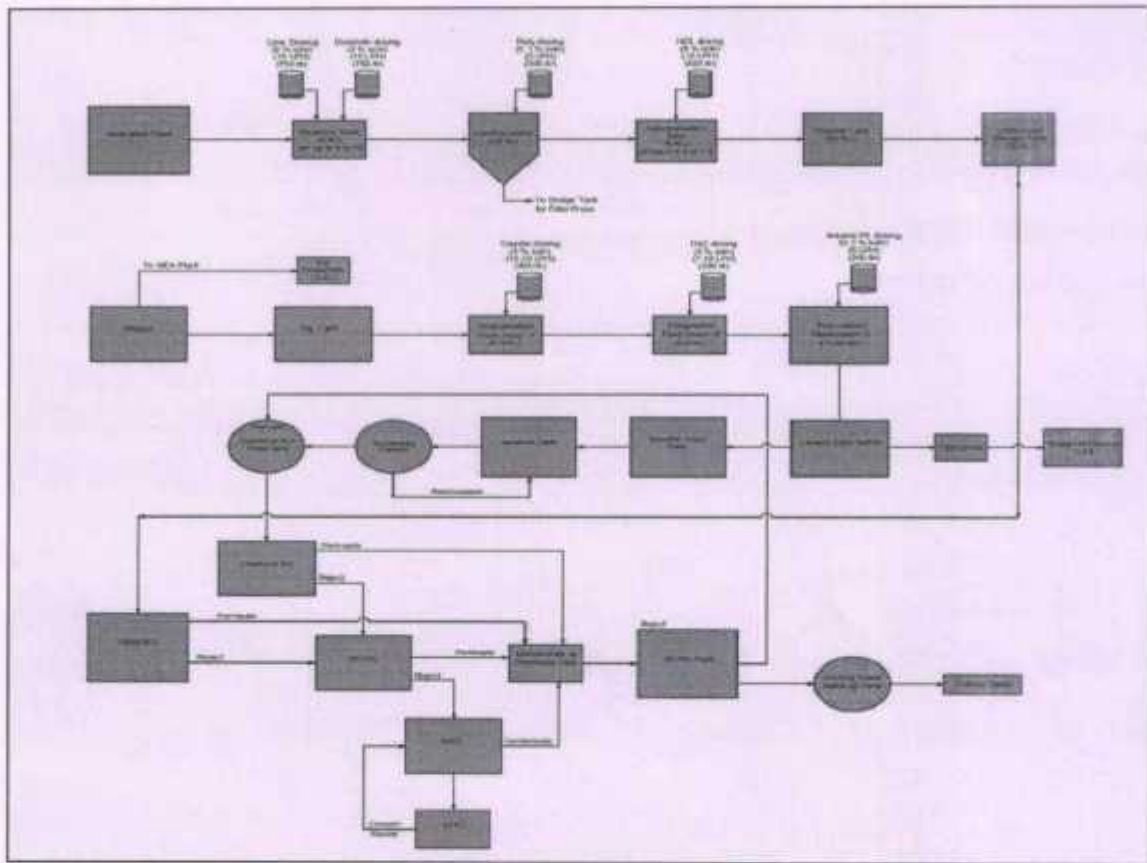
Industry has installed effluent treatment plant (60 m³/day) consisting of component for primary and secondary treatment. In order to provide polishing of effluent, industry has also installed four numbers of reverse osmosis (RO) plant of various capacities (60 KLD, 50 KLD, 150 KLD and 200 KLD) and multi effect evaporation (MEE) plant of capacity 40 KLD. Resulting permeates and MEE condensate being utilized for the purpose utilities such as cooling tower application. Thus, unit follows zero liquid discharge (ZLD).

Apart from this, industry has installed two numbers of electrostatic precipitators of capacity (14 TPH and 67 TPH) to take care of flue gas emission resulting from coal based boiler.



Plot No. 87,91,92,96, Opp. Sarthee Township,
Kadodara Palsana Road (NH-8), V. Sanki, Ta. Palsana, Surat-394305
Phone : +91 9904408835 / 38 | Email : suratpacific@gmail.com
Website : www.pacific-soe.ac.in

C. DETAIL OF EFFLUENT TREATMET SCHEME:



D. PERFORMANCE EVALUATION OF CONVENTIONAL ETP

Parameters	ETP Inlet	Primary Clarifier Outlet	Secondary Clarifier Outlet (Chemical RO Inlet)	% Gross Reduction
pH	7.9	7.4	5.7	-
Temperature	29	29	27	-
Colour	250	200	110	56.00
TDS (mg/L)	8012	8465	8216	-2.55
COD (mg/L)	13115	11961	674	94.86
Ammonical Nitrogen (mg/L)	110	70	27	75.45

Note: Treated effluent from secondary clarifier goes to RO for further treatment.

E. PERFORMANCE EVALUATION OF RO PLANT

Parameters	Secondary clarifier Outlet (Chemical RO Inlet)	Chemical RO Permeate	% Gross Reduction
pH	5.7	6.2	-
Temperature	27	27	-
Colour	110	55	78.00
TDS (mg/L)	8216	4257	46.87
COD (mg/L)	674	124	99.05
Ammonical Nitrogen (mg/L)	27	10.5	90.45

Note: Permeate from RO plant further treated in polishing RO plant and reject goes to MEE after treated in HP RO.

F. PERFORMANCE EVALUATION OF FINAL POLISHING RO PLANT

Parameters	RO Inlet	RO Permeate	RO Reject	% Gross Reduction (Permeate)	% Gross Change (Reject)
pH	6.2	6.1	6.8	-	-
Temperature	28	27	28	-	-
Colour	50	10	105	96.00	47.50
TDS (mg/L)	1421	87	10567	98.91	-24.83
COD (mg/L)	62	21	745	99.84	93.77
Ammonical Nitrogen (mg/L)	27	1.2	8.5	98.91	87.86

Note: Permeate being utilized at cooling tower and reject goes to chemical RO.

G. PERFORMANCE EVALUATION OF MEE

Parameters	MEE Inlet	MEE Condensate	% Gross Reduction
pH	6.2	8.42	-
Temperature	27	27	-
Colour	100	5	98.00
TDS (mg/L)	18741	4072	49.18
COD (mg/L)	1208	3022	76.96
Ammonical Nitrogen (mg/L)	8.3	1.4	98.73

Note: MEE condensate being further treated in final polishing RO and concentrate treated in agitator thin film dryer (ATFD) and finally goes to TSDf site.



H. EVALUATION OF ESP

Parameters	Across ESP - I (14 TPH)		
	ESP Inlet - I (14 TPH)	ESP Outlet - I (14 TPH)	Reduction in Primary (%)
Particulate Matter (PM)	9054	57	99.37
Sulphur Dioxide (as SO ₂)	69	66	4.35
Oxides of Nitrogen (as NO _x)	39	38	2.56

Parameters	Across ESP - II (67 TPH)		
	ESP Inlet - II (67 TPH)	ESP Outlet - II (67 TPH)	Reduction in Primary (%)
Particulate Matter (PM)	9025	53	99.41
Sulphur Dioxide (as SO ₂)	75	72	4.00
Oxides of Nitrogen (as NO _x)	44	42	4.55

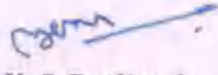
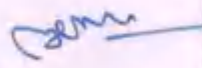
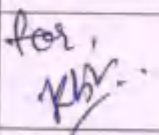
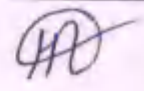
I. SUMMARY OF THE STUDY:

1. Significant reduction in colour, COD and Ammonical Nitrogen showed efficacious performance of primary and secondary treatment of effluent. Then after it goes to RO for further treatment.
2. Notable reduction in TDS, colour, COD and Ammonical Nitrogen in permeate showed efficacious performance of RO plant which is being further treated in polishing RO plant.
3. More than 95% reduction in TDS, colour, COD and Ammonical Nitrogen in permeate obtained from polishing RO plant being utilized at cooling tower.
4. Effective reduction in TDS, colour, COD and Ammonical Nitrogen showed efficacious performance of MEE.
5. More than 99% removal of particulate matter in an exit flue gas emission indicating efficient performance of two ESPs.

CONCLUSION:

Based on monitoring, sampling, analysis and evaluation it is concluded that conventional ETP, RO plants, MEE and ESP performance showed efficacious. This study is based on the monitoring and sampling conducted on 29th October, 2021.

Date: 18th November, 2021

 Dr. Y. C. Rotliwala (Principal)	Dr. Yogesh Rotliwala Ph.D. (Chemical Engg.), Chemical Engineer	
	Dr. Hiral Tailor Ph.D. (Chemistry), Chemist	for, 
	Dr. Himanshu Patel Ph.D. (Chemistry), Chemist	H.J. Pat
	Ms. Nidhi Halbe M.E. (Env. Engg.), Environmental Engineer	





Annexure - VIII

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Date 31-08-18

To,
Aarti Industries Ltd.
Plot No. Z/103/H,
Dahej Sez -II,
Tal: Vagra,
Dist: Bharuch.

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 Bharuch Enviro Infrastructure Ltd., at GIDC, Ankleshwar and Dahej. You have booked solid waste quantity of 150 MT/year. You have also paid your capacity commitment charges. Your Membership No. is Oth/653

Waste will be accepted after submitting valid authorization of GPCB.

Thanking you,

Yours faithfully,
For, BHARUCH ENVIRO INFRASTRUCTURE LTD.


AUTHORISED SIGNATORY

CIN No.: U45300GJ1997PLC032696

Works Office : Plot No. 9701-16 GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 225228 • Fax : (02646) 222849 • E-mail : panjwanis@uniphos.com
Regd. Office : Plot No. 117-118, GIDC Estate, Ankleshwar 393 002, Dist.: Bharuch. (Gujarat)



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

28th MAY, 2020

To,
AARTI INDUSTRIES LTD. - DAHEJ
PLOT NO.Z/103/H,
DAHEJ SEZ - II,
TAL: VAGRA,
DAHEJ.

Sub : Membership Certificate for Common Incineration Facility


Dear Sir,

You are a member of our Common Incinerator Facility and your membership No. is **CI/BD/94**. We hereby certify that your booked quantity has increased from **140 MT / Year to 265 MT / Year**.

Thanking you,

Yours faithfully,

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


AUTHORISED SIGNATORY

CIN No.: U45300GJ1997PLC032696

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

Certificate

Certificate No: **CPAW1A0046**

To Whomsoever it may concern
This is to certify that
AARTI INDUSTRIES LTD (DAHEJ UNIT)

PLOT NO-Z/103/H,
DAHEJ SEZ-II,
TA-VAGRA,
DAHEJ

is a valid member of
Recycling Solutions Private Limited

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

Date of issue : 18/01/2017
Date of expiration : 17/01/2027
Place of issue : Panoli

For, Recycling Solutions Private Limited

Director/Authorised signatory

Waste Information :					
SrNo	Type Of Waste	Sign Qty (TPA)	SrNo	Type Of Waste	Sign Qty (TPA)
1	PROCESS WASTE	600.000			
Total Sign Qty (TPA) :					600.000

SUBJECT TO BHARUCH JURISDICTION

Sito Address
Plot No.223, GIDC Estate Panoli, Panoli-394 116
Dist. Bharuch, Gujarat. Phone: +91 2646 272029
CIN - U57100MH2012PTC237696

Regd. office :
370, S V P Road, Shop 8, Ciganbavala Bldg., Opp. CBI,
Pradhana Samaj, Nr. Harkishandas Hospital,
Mumbai - 400004.

E-mail
rspl@rs-pl.com

Website
www.rs-pl.com



Certificate

Certificate No.: 1200002426

To Whomsoever it may concern

This is to certify that

AARTI INDUSTRIES LTD.

PLOT NO. Z/103/H,
DAHEJ SEZ II, TAL: VAGRA,
DAHEJ

is a valid member of

SAURASHTRA ENVIRO PROJECTS PVT. LTD.

for

Integrated Common Incineration Facility

This membership is valid for a period of

5 Years

Date of Issue : 23.09.2021

Date of Expiration : 22.09.2026

Place of Issue : Surat

For, Saurashtra Enviro Projects Pvt. Ltd.

Director

SUBJECT TO SURAT JURISDICTION

To,
The Unit Head (Hazardous waste cell),
Gujarat Pollution Control Board,
Gandhinagar.

Subject: Intimation for Sale of Aluminium Hydroxide -Al(OH)₃ under Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

Respected Sir,

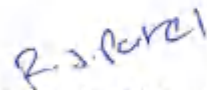
With reference to the above-mentioned subject, we would like to send the Aluminium Hydroxide Al(OH)₃ to **M/s. Sinhal Brothers (XGN ID 14145)** located at Ranipur Patia, Opp. Cozy Hotel, Narol, Ahmedabad - 382405, Gujarat, who applied for Rule-9 application for utilization of Aluminium Hydroxide Al(OH)₃.

Copy of the CC&A of our Unit is attached as **Annexure-I** and valid CCA of **M/s. Sinhal Brothers** is attached as **Annexure-II**. We have also entered into MOU which is enclosed herewith as **Annexure-III**.

Also, the industry has applied for permission under Rule-9 of H&OW Rule-2016 to CPCB as well as GPCB to utilize Aluminium Hydroxide Al(OH)₃ in ETP as a neutralizing agent in ETP. A copy of the Rule-9 application is enclosed herewith as **Annexure-IV**.

We are submitting this letter for your kind consideration and your information.

Thanking you,
For **M/s. Aarti Industries Limited**


Authorized Signatory



CC to :

1. The Unit Head (Bharuch), GPCB Gandhinagar.
2. The Regional Office, GPCB Bharuch.


Gujarat Pollution Control Board
Head Office
Sector No.-10-A,
Gandhinagar-382010

10 March 2022

To,
Jt. Chief Controller of Explosive Office,
8th Floor, Yashkamal Building,
Opp. MS Univercity,
Sayajigunj.
Vadodara.

Sub :- Surrender of our petroleum storage license no P/WC/GJ/15/2570(P369856) valid up to 31/12/2028.

Respected Sir,

We are holding a petroleum storage license to store petroleum class A & B in storage tanks vide license no P/WC/GJ/15/2570(P369856) in the name of Aarti Industries Limited. at this stage we are not using/ store any petroleum product in our said premises, kindly cancel our said petroleum storage license for that formalities we are surrender our Original petroleum storage license along with its approved plan.

Kindly do the needful.

Thanking you,
Very truly yours

Encl.
Original petroleum storage license no P/WC/GJ/15/2570(P369856) in form XV along with its approved plan.

Date: 10/03/2022

To,
Dy. Director Industrial safety and Health,
Kanbivaga, Bahumali Building,
Bharuch.

Subject: Submission of Onsite / Offsite Emergency Plan

Respected sir,

With reference to the above subject, We are submitting revised Onsite / Offsite Emergency Plan. please find herewith revised Onsite / Offsite Emergency plan Jan 2022.

For Aarti Industries Limited, Dahej

Sandip Parekh
Authorized Signatory


Senior Clerk
Deputy Director
Industrial Safety & Health;
BHARUCH 15-3-22

AARTI INDUSTRIES LIMITED

Check Points for Hazardous and Other Wastes vehicle (Truck/Tanker)

Sr No	Requirements	Remarks	
A	TO BE FILLED BY SECURITY		
1	Vehicle In Date & Time		
2	Vehicle required for	Loading/Unloading	
3	Name of Material/Waste		<i>write exact name of w</i>
4	Type of vehicle	Truck/Dumper/Tanker/Tractor	
5	Is vehicle condition is road worthy	Yes/No	<i>if No then dont allow e</i>
6	Name of Disposal Facility		<i>write name of disposa</i>
7	Vehicle registration number		
8	Name of Transporter		
9	Name & Contact Number of Driver		
10	Driver's Licence and its validity		
11	Alcohol Test of Driver	OK/NOT OK	
12	Requirement of flagman/signal man (cleaner)		
13	Avoid BIDI, CIGRETE, STOVE LIGHTER, MATCH BOX, MOBILE etc to be submitted at security gate		
14	Spark arrester is provided and fitted	Yes/No	
15	PPEs provision (Helmet/ Safety goggles/ Safety shoes) To be provided from ALL Gate	Yes/No	
16	Vehicle PUC validity	OK/NOT OK	
17	Check Insurance of vehicle with validity	OK/NOT OK	
18	MSDS, in case of spent acid	OK/NOT OK	
19	Fire Extinguisher	OK/NOT OK	
20	First Aid Kit	OK/NOT OK	
21	Affixed of Hazchem information/GHS label pasted	Yes/No	
22	Is the Vehicle in given list	Yes/No	<i>if No then dont allow e</i>
23	GPS AIS-140 installed	Yes/No	<i>if No then dont allow e</i>
24	Any Leakage/Spillage form the vehicle	Yes/No	<i>if No then dont allow e</i>
25	Name of Contact person in AIL		
26	Vehicle body colour	Blue/Other	<i>All Hazardous waste v</i>
27	Display of "HAZARDOUS WASTE" on vehicle body	Yes/No	<i>'Hazardous Waste' to</i>
28	Hand Brake	Yes/No	
	Singature, Date & time of Inspecting person:		
B	TO BE FILLED BY USER DEPT.		
1	Activeness of GPS AIS-140 (To be confirmed by ALC)	Yes/No	
2	Labelling of containers/vehicle as per FORM-8	Yes/No	
3	Vehicle covered with tarpaulin	Yes/No	
4	Any Leakage/Spillage form the vehicle/dripping of liquid	Yes/No	
5	Sealing of valves & manhole cover (in case of tanker)	Yes/No	
	Singature, Date & time of Inspecting person:		
C	TO BE FILLED BY ETP/DISPATCH		
1	Signed & Stamped Manifest Copy - 3,4,5,6,7 (if applicable)	Yes/No	<i>if No then dont allow ti</i>
2	Signed & Stamped TREM Card	Yes/No	<i>if No then dont allow ti</i>
3	Invoice (Only in case of Spent Acid/Used Oil/Fly Ash/Empty Drums/Catalyst)	Yes/No	<i>if No then dont allow ti</i>
4	Gate Pass/Google form/RGP	Yes/No	<i>if No then dont allow ti</i>
5	Email communication to facility/end users	Yes/No	
6	Weighment Slip	Yes/No	<i>if No then dont allow ti</i>
	Singature, Date & time of Inspecting person:		
D	TO BE FILLED BY SECURITY		
1	Vehicle Out Date & Time		
2	Vehicle Out date		
3	Avaiability of documents mentioned in section C	Yes/No	<i>if No then dont allow ti</i>
4	Any Leakage/Spillage form the vehicle/dripping of liquid	Yes/No	
5	Name of accompanying security gurad for outstate along with doucements	Yes/No	
	Singature, Date & time of Inspecting person:		
E	FINAL APPROVAL		
1	Approved & Signed by: ETP/Environment Manager/Engineer/NDO		
2	Approved & Signed by: Division Head		

Glimpse of CSR/CER ACTIVITY

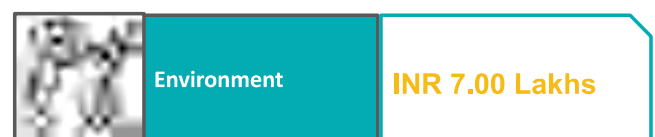


AARTI INDUSTRIES LIMITED

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.



Logout

Proposal No : SIA/GJ/IND3/64482/2021

Proposal Name : Aarti Industries Limited (Unit I)

Category : Industrial Projects - 3

MoEF File No. : SIA/GJ/226711/2021

Compliance Letter/Report

Year of Compliance: 2023

Date of Compliance * : 01 Dec

Remarks: Aarti Industries Limited (Unit I) Six monthly EC compliance for(April-2023 to September-2023) for the EC file No: SEIAA/GUJ/EC/5(f)/173/2013, EC Amendment letter

Upload Compliance Letter/Report * : No file chosen (.pdf only)

Sno.	Proposal No.	Uploaded copy of Compliance report	Remarks	Uploaded Date	Delete
1	SIA/GJ/IND3/64482/2021	1128202322477281NEIECCOMPRESSED.pdf	Aarti Industries Limited (Unit I) Six monthly EC compliance for(April-2023 to September-2023) for the EC file No: SEIAA/GUJ/EC/5(f)/173/2013, EC Amendment letter No:SEIAA/GUJ/EC/5(f)/547/2019, EC Expansion & Amendment letter No: SEIAA/GUJ/EC/5(f)/1639/2020 and Expansion letter No:SEIAA/GUJ/EC/5(f)/2630/2022	28/11/2023	<input type="button" value="X"/>



LETTER OF APPROVAL - Form G

(Refer rule 19)

OFFICE OF DEVELOPMENT COMMISSIONER,
KANDLA SPECIAL ECONOMIC ZONE
DEPARTMENT OF COMMERCE, GOVERNMENT OF INDIA

PH: 91-2836-252474, FAX: 91-2836-252250, Email: kasez@kasez.com, Website: www.kasez.com

Dated the : 05/08/2021

SEZ Name: DAHEJ SEZ

SEZ Address: 4TH FLOOR, FLORIDA CHAMBERS, TIMES OF INDIA BUILDING, ASHRAM ROAD,
AHMEDABAD, Guja
rat, India, 380009

Reference: Your application No. - 201600003474 Dated 05/06/2021

LOA No.: Dahej SEZ/II/29/ASLLP/2011-12/6502

LOA Issue Date: 14/03/2012

LOA Valid From: 05/08/2021 LOA Valid up to : 04/08/2026

SEZ Unit Name: AARTI INDUSTRIES LIMITED

Registered Address: PLOT NO. 80123,, PHASE III,, GIDC ESTATE,, VAPI, Gujarat, India, 396195

SEZ Unit Address: PLOT NO. Z103H,, DAHEJ SEZ II,, TAL. VAGRA,, DIST. BHARUCH, Gujarat, India, 392130

Subject: Your proposal for Renewal of LOA: Dahej SEZ/II/29/ASLLP/2011-12/6502 for unit in DAHEJ SEZ [SEZ]

Dear Sir/Madam,

With reference to the above mentioned application, Development Commissioner, DAHEJ SEZ [SEZ] is pleased to extend to you all the facilities and entitlements admissible to a unit in a Special Economic Zone subject to the provisions of the Special Economic Zones Act, 2005 and the rules and orders made there-under and for the establishment of a unit at DAHEJ SEZ [SEZ], in the State of GUJARAT, for undertaking authorised operations, namely, manufacture and rendering services including trading as under:-

Authorised Operations

1. Manufacturing Activity

ITC HS Code	ITC HS Code/ CPC	Item Description
29039110		Mono Chlorobenzene and other chlorination products
29214290		2-Methyl-6-Ethyl Aniline and other Ethylation Product
29214290		Chlor Aniline, Dichloro Aniline and other Hydrogeneration Products

This approval is subject to following terms and conditions:

- You shall export the goods manufactured/ goods imported/procured for trading and services, including items of trading, as per provisions of the Special Economic Zones Act, 2005 and Rules made there-under for a period of five years from the date of commencement of production/service activities. For this purpose, you shall execute the Bond-cum-Legal Undertaking as prescribed under the Special Economic Zone Rules, 2006.
- You shall fulfill the pollution control requirements, as may be prescribed by the Pollution Control authorities.
- You shall achieve positive Net Foreign Exchange (NFE) as prescribed in the Special Economic Zone Rules, 2006 for the period you operate as a Unit in the Special Economic Zone from the commencement of production, failing which you shall be liable for penal action under the Foreign Trade (Development and Regulation) Act, 1992.
- You may import or procure from the Domestic Tariff Area all the items required for your authorised operations under this approval, except those prohibited under the ITC (HS) Classifications of Export and Import items.
- You may supply/sell goods or services in the Domestic Tariff Area in terms of the provisions of the Special Economic Zones Act, 2005 and rules and orders made there-under.
- This Letter of Approval is valid for a period of one year from its date of issue. You shall implement the project and commence production within one year period or within such period as may be extended.

- vii. Date of commencement of production shall be intimated to the Development Commissioner.
- viii. This Letter of Approval shall be valid for a period of five years from the date of commencement of production.
- ix. The approval is based on the details furnished by you in your project proposal/application.
- x. You shall abide by the provisions of Special Economic Zones Act, 2005 and the rules and orders made there-under.
- xi. You have the option to renew the approval or exit in terms of the provisions of the Special Economic Zones Act, 2005 and the rules and orders made there-under.
- xii. You shall confirm acceptance of the above terms and condition to the Development Commissioner within forty-five days of issue of this Letter of Approval.
- xiii. If you fail to comply with the conditions stipulated above, this Letter of Approval shall be cancelled as per the provisions of the Special Economic Zones Act, 2005 and the rules and orders made there-under.
- xiv. All future correspondence including for amendments/changes in terms and conditions of the Letter of Approval or for extension of its validity shall be addressed to the development commissioner.

Yours Faithfully,

Development Commissioner
DAHEJ SEZ [SEZ]

Copy forwarded to: -

Asstt Commissioner/Deputy Commissioner/Joint Commissioner (Custom) DAHEJ SEZ [SEZ]

LOA Conditions

Sr No.	LOA Conditions	Added Date
--------	----------------	------------

This LOA is Digitally Signed & Approved by Kundan Kumar



Dahej SEZ Limited

Block No.14, 3rd Floor, Udyog Bhavan,
Sector-11, Gandhinagar-382017, Gujarat, India
Phone : +91-79-23241590, 29750638
Fax : (079) 23241736
e-mail : ceo@dahejsez.com, info@dahejsez.com
website : www.dahejsez.com
CIN : U45209GJ2004PLC044779
GSTIN : 24AACCD8098E3ZJ

DSL/RoU/Aarti Industries/2019/3134

09-10-2019

To

✓ Aarti Industries Ltd.
Plot No. Z-103/H,
Dahej SEZ Part-2,
Dahej, Dist : Bharuch.

Dear Sir,

We are sending herewith copy of "RoU Agreement" executed on 30-09-2019
for lying steam pipe rack from plot no. Z-103/H to plot no. Z-111/B in Dahej
SEZ area.

Thanking You,

Yours Faithfully,

Asst. Manager
(Secretariat & Administration)

Encl: As above

C. C. : Manager (Infra), Dahej SEZ Ltd., Dahej



सत्यमेव जयते

INDIA NON JUDICIAL
Government of Gujarat
Certificate of Stamp Duty

Certificate No. : IN-GJ21581913577336R
Certificate Issued Date : 16-Sep-2019 11:21 AM
Account Reference : IMPACC (FI)/ gjelimp10/ BHARUCH/ GJ-BH
Unique Doc. Reference : SUBIN-GJGJELIMP1086302436330208R
Purchased by : AARTI INDUSTRIES LTD
Description of Document : Article 5(h) Agreement (not otherwise provided for)
Description : FOR AGREEMENT
Consideration Price (Rs.) : 0
(Zero)
First Party : AARTI INDUSTRIES LTD
Second Party : DAHEJ SEZ LTD
Stamp Duty Paid By : AARTI INDUSTRIES LTD
Stamp Duty Amount(Rs.) : 300
(Three Hundred only)



SIR 0000584130

Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at 'www.shoicestamp.com'. Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

AGREEMENT

**ROU agreement for laying steam pipe rack from plot no. Z-103/H to
Plot no. Z/111/B in Dahej SEZ area.**

This Indenture is made on the 30th day of September (month) Two Thousand Nineteen between

Dahej SEZ Ltd. (DSL) (A company incorporated under the companies Act, 1956) and having its registered office at Block No.14, 3rd Floor, Udyog Bhavan, Sector-11, Gandhinagar-382017, Gujarat, India (hereinafter referred as "DSL" which expression shall, unless excluded by or repugnant to the context, include its successor and assignees) of the one part

And

Aarti Industries Ltd. (A company incorporated under Companies Act.1956) and having its Registered office at Plot No. 801,801/23, IIIrd Phase, GIDC Vapi-396195. Gujarat, India (hereinafter referred to as "The Company/allottee" which expression shall, unless excluded by or repugnant to the context, include its successors and assignees) of the other part.

Whereas the allottee/company applied to Dahej SEZ Ltd. (DSL) for permission to lay Steam pipe rack in Dahej SEZ area . The said permission has been granted by Dahej SEZ Ltd. subject to terms and conditions as under:-

NOW THIS INDENTURE WITNESSETH AS FOLLOWS:-

1. **AIL has obtained approval of DSL, vide letter no DSL/RoU/Aarti Industries/1296/2177 dated 29-05-2019.**
2. **AIL has obtained permission from the SEZ Development Commissioner/BOA as required, Vide letter no. F.2/4/2019-SEZ dated 20.08.2019, DAHEJ-SEZ/II/29/ASLLP/2011-12/2846 dtd.16.08.2019 and DAHEJ-SEZ/II/29/ASLLP/2011-12/2869 dtd.27.08.2019**
3. **AIL is to obtain all statutory clearances as may be required especially GPCB, environmental clearance, CRZ clearance if applicable, Safety requirement etc.**
4. **The work will be executed by AIL in consultation with DSL, Dahej office and guidelines issued in this respect for laying of Steam pipe rack as may be required, crossing of roads, provision of pacca storm water drain, Water supply line etc.**



- 5 **The terms and conditions mentioned in the approval letter issued by DSL vide letter no. DSL/RoU/Aarti Industries/1296/2177 dated 29-05-2019 become part of this agreement and must be binding to M/s. AIL.**
- 6 All road crossings / Approach of unit shall be carried out As per the instruction given by DSL time to time. M/s.AIL has to submit the drawing for crossing of SEZ Road / Approach of Unit and work of crossing will be done only after written approval of DSL. The instruction given by DSL must be binding to AIL. All costs for doing this activity have to be borne by AIL.
- 7 Before laying the steam pipe rack, a trial pit is to be made to know the exact location of existing underground services within SEZ area. M/s. AIL has to take care for the existing services within SEZ area. M/s. AIL has to contact concern authority for necessary guidance/information/approval. If any damage occurred during execution of works then same shall be attend by M/s.AIL immediately and cost for the same shall be borne by M/s. AIL. The damage area shall be restored as per methodology suggested by concern authority/DSL. AIL has to pay compensation if claim by concern authority for any financial loss.
- 8 After completion of trial pits at site, exact route for laying steam pipe rack will be shown by DSL at the time of execution by M/s. AIL. During execution, if for any reason route of steam pipeline rack required to be changed, the alignment of steam pipeline rack will have to be modified accordingly.
- 9 M/s. AIL has to cross the existing/proposed services as per the methodology suggested by concern authority/DSL and cost for the same shall be borne by M/s. AIL.
- 10 M/s. AIL has to keep safe guard distance from the existing/proposed services as per the safety standards/norms of the concern authority/ I.S.
- 11 During execution of works, M/s. AIL must ensure that no damage will be occurred to any property/services etc in SEZ. If any damage occurred than same shall be rectified/ restored by M/s. AIL at their own cost as desired by DSL/Concern authority.
- 12 DSL reserved the right to lay any underground or overhead services within ROU area.
- 13 Depth of foundation shall be kept in such a way that there must be clear height (Min. 3 Mtr) available from top of foundation to enable DSL to lay any other underground services if required.
- 14 M/s. AIL will have to make the ground level as it is and for road and other properties of Dahej SEZ Ltd. in the said proper condition at their cost. All expenditure in this regard will be borne by M/s. AIL.
- 15 The area mentioned in the permission letter is tentative as approved by DSL. However final area will be worked out based on the actual measurement that will be made at site jointly by DSL and M/s. AIL. M/s. AIL will be required to make additional payment if so required.



- 16 The Steam Pipeline rack should be checked by M/s. AIL at regular intervals as per safety standard and report should be submitted to DSL & concern authority. If any damage found in steam pipeline rack , it must be attended immediately by M/s. AIL.
- 17 For whatsoever reason if DSL want the shifting of the steam pipeline rack , the same shall be done by M/s. AIL at their risk and cost and in time as may be ordered by DSL.
- 18 DSL/GIDC/ Co-Developers/ SEZ Units will not take any permission for crossing of AIL steam pipeline rack or any work in/around AIL pipeline/ Rou area. Also, no charges is to be paid to M/s. AIL for any crossing or any activities in/around AIL RoU. M/s. AIL has to depute the competent person during execution of work by DSL/GIDC/Co-developer/SEZ Unit for supervision to avoid any damage to M/s.AIL pipeline M/s.AIL will depute the person without levy of any Charges.
- 19 M/s. AIL shall have no right / interest whatsoever in or over the said road / road side land / corridor land, except merely the license to enter upon the same for the purpose of carrying out necessary operation.
- 20 M/s. AIL shall at its own expenses maintain Steam Pipeline rack in a proper condition, or repairs and make good immediately damage which might be caused to surface of the road/road side land / any services or to other DSL property to the entire satisfaction of the Chief Executive Officer or his representative authorized in this behalf.
- 21 M/s. AIL has to submit the **As Built Drawings** after completion of works. (2 set in Hard copy + 2 set in soft copies).
- 22 When DSL/GIDC and co-developers lay new service line/ lines, or carry out maintenance work for water supply, roads, drainage, electricity etc. M/s. AIL shall liaise to ensure safe working practices to avoid any damage. M/s. AIL shall promptly depute their representative during execution of work, if required, and so directed by DSL. Failing to comply the above by Allottee/ M/s. AIL, DSL shall not be held responsible in any manner whatsoever.
- 23 Any hazardous incidence as may be caused which could be directly attributed to the economy to that context the same shall be the responsibility of the allottee/ M/s. AIL and compensation if any as may be arising out of such hazardous shall be on the account of the M/s. AIL.
- 24 All safety measures/norms must be followed by M/s. AIL.
- 25 M/s. AIL shall be solely liable for any loss/ injury/death which any person may sustain by reason of any defect in or want of any activity/repairs to any of its pipeline, or as a result of any carelessness or negligence or misconduct of its employees in the erection, setting up of Steam Pipeline rack and use thereafter. M/s. AIL has to pay all compensation against any claim/demand/liability. DSL shall not be held responsible to pay any compensation.



- 26 In the event of any loss of damage to life or property of any one or more persons as a direct result of M/s. AIL activities under this agreement, the same shall be responsibility of the M/s. AIL and M/s. AIL will have to make good the same/ pay compensation at his own risk and cost.
- 27 All damage and losses present and future caused as a direct result of company's activities under this agreement due to this permission shall be made good by the company.
- 28 The annual rent as may be fixed by DSL will be recovered in advance for every year, as indicated in the allotment letter No.: **DSL/RoU/Aarti Industries/1296/2177 dated 29.05.2019.**
- 29 As and when annual rent or any amount payable by M/s. AIL / allottee under this permission shall be in arrears of land revenue without prejudice to any other remedies which may be open to DSL.
- 30 DSL shall not be responsible for any damage to Steam Pipeline rack in any case. M/s. AIL has to make their own arrangement for safety/security of Steam Pipeline rack.
- 31 On the failure of the Allottee/ M/s. AIL to observe any of the conditions of this agreement, DSL shall be at liberty to disconnect/remove the Steam Pipeline rack for utilities without any notice. In case of other reasons, DSL will be given 30 days' notice to the allottee/ M/s. AIL mentioning reasons. If the allottee/ M/s. AIL fail to comply, on the expiry written notices period, including extension if granted DSL shall be at liberty to remove Steam Pipeline rack for utilities at it is discretion and the allottee/ M/s. AIL shall be liable for the expenses incurred by the DSL including restoration charges.
- 32 DSL shall be at all times at liberty to terminate this agreement and no compensation on any account of the termination of the agreement would be paid to M/s. AIL.
- 33 The initial permission will be for a period of 5 years and thereafter, DSL may extend it for an appropriate period on ensuring regular annual payment of the ROU rent as per the policy of DSL from time to time and compliances of all conditions.
- 34 The ROU area shall be maintain in good condition. All unwanted grass, vegetables, bushes etc shall be clean at regular interval to avoid any fire incident/ accident.
- 35 M/s.AIL has to execute the work without disturbing/damaging the green belt/ tree plantation area. If any green belt area damage then it shall be restored as per the direction given by DSL time to time.
- 36 On any difference of opinion between M/s. AIL and DSL, the decision of Chief Executive Officer, DSL shall be final and binding to DSL and M/s. AIL.
- 37 M/s. AIL has to follow the rules and regulation prevailing in SEZ area.



38 The party shall bear the cost of preparation of agreement, stamp duty execution of the agreement.

In witness thereof DSL has authorized Chief Executive Officer / Manager (Infra) Dahej SEZ Ltd. to set his hand and the seal of his office hereto and

Signed sealed and delivered and have set their hands and the seal of the company has been affixed on the day and year first above written.

SIGNED, SEALED AND DELIVERED

By Shri S. N. Patel
Chief Executive Officer / ~~Manager (Infra)~~
Dahej SEZ Limited

S. N. Patel
Signature



In the Presence of

1. Ankit Bhandarkar (Ankit Bhandarkar)
2. Sheeshank Dheemsiya (Sheeshank Dheemsiya)

SIGNED, SEALED AND DELIVERED

On behalf of Aarti Industries Ltd. and the common seal of the company has been affixed



In the Presence of

1. Akesh Patel (Akesh Patel)
2. Poojan Bhatt (Poojan Bhatt)



Dexo Fine Chem Pvt .Ltd.

Analysis of Chemicals, Pharma products, Dyes using HPLC, GC, UV-VIS,
Flam photometer M.P., KF, pH, Related volumetric, Enviroment analysis etc.
Manufacturer-Fine & Specialty Chemicals

AN ISO 9001:2015 CERTIFIED COMPANY


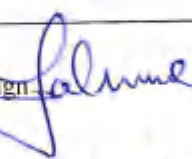
CERTIFICATE OF ANALYSIS		
CERTIFICATE NO:DFCPL/0747/23-24		
1. Name of Party/ Manufacturer	AARTI INDUSTRIES LTD- DAHEJ	
2. Sample Received on	12-09-2023	
3. Name of Sample	Coal(Proximate Analysis)	
4. Party Reference No.	--	
5. Detail of Product	Raw Material / Final Product / In Bulk / Finished Pack	
(1) Original Manufacturer Name:-	(4)Mfg Date:-	
(2) Batch No:-	(5)Exp Date:-	
(3) Sample Qty :- 500 gm	(6)Batch Size:-	
Analysis Results :		
Sr.No.	TEST PARAMETER	RESULT
1	Fix Carbon	39.59 %w/w
2	Volatile Matter	37.51 %w/w
3	Inherent Moisture	15.98 %w/w
4	Total Moisture	39.95 %w/w
5	Ash Content	6.13 %w/w
6	GCV	4215 K.Cal/kg
Note: Party asked for above test only.		
Analyst Sign : <i>Duyg.</i>	Date-14-09-2023	Authorized Sign: <i>[Signature]</i>
Note :		
1.The result listed, refer only to the samples analyzed applicable parameters, Endorsement of products is neither inferred nor implied.		
2. Total liability of our institute is limited to the invoice amount.		
3. This report cannot be used as an evidence in the court of law nor reproduce completely or part, in any form of media (Including print), without on explicit written permission from DFCPL.		
4. Sample drawn and submitted by the party for analysis unless otherwise stated.		
5. Analyzed samples are destroyed after completion of test.		



Dexo Fine Chem Pvt .Ltd.

Analysis of Chemicals, Pharma products, Dyes using HPLC, GC, UV-VIS,
Flam photometer M.P., KF, pH, Related volumetric, Enviroment analysis etc.
Manufacturer-Fine & Specialty Chemicals

AN ISO 9001:2015 CERTIFIED COMPANY

CERTIFICATE OF ANALYSIS		
CERTIFICATE NO:DFL/0746/23-24		
1. Name of Party/ Manufacturer	AARTI INDUSTRIES LTD- DAHEJ	
2. Sample Received on	12-09-2023	
3. Name of Sample	COAL (Ultimate Analysis)	
4. Party Reference No.	-	
5. Detail of Product	Raw Material / Final Product / In Bulk / Finished Pack	
(1) Original Manufacturer Name:- (2) Batch No:- (3) Sample Qty :- 500 gm	(4)Mfg Date:- (5)Exp Date:- (6)Batch Size:-	
Analysis Results :		
Sr.No.	TEST PARAMETER	RESULT
1	CARBON	40.13 %w/w
2	HYDROGEN	3.96%w/w
3	OXYGEN	12.14 %w/w
4	SULPHUR	0.51%w/w
5	NITROGEN	1.24 %w/w
Note: Party asked for above test only.		
Analyst Sign : 	Date- 14-09-2023	Authorized Sign 
Note :		
1.The result listed, refer only to the samples analyzed applicable parameters, Endorsement of products is neither inferred nor implied.		
2. Total liability of our institute is limited to the invoice amount.		
3. This report cannot be used as an evidence in the court of law nor reproduce completely or part, in any form of media (Including print), without on explicit written permission from DFCPL.		
4. Sample drawn and submitted by the party for analysis unless otherwise stated.		
5. Analyzed samples are destroyed after completion of test.		

TEST REPORT

ULR No.	----	Report No.	URC /23/02/L-0158
Name & Address of Customer	M/s. AARTI INDUSTRIES LTD. (UNIT-I NEO) PLOT NO. Z-103/H, SEZ PART-II, DAHEJ-392130, BHARUCH, GUJARAT.	Date Of Report	10/02/2023
		Customer's Ref.	--
Sample Details	Coal Sample	Location	--
Sample Qty.	1 Kg.	Appearance	Black Colour
Sampling Date	04/02/2023	Sample Received Date	06/02/2023
Test Started Date	06/02/2023	Test Completion Date	09/02/2023
Sampled By	Client.	Sampling Method	--
UERL Lab ID. No.	23/02/L-0158		

TEST RESULTS:

Sr. No.	Parameters	Unit of Measurement	Results
1.	Total Moisture	%	27.68
2.	Ash Content	%	6.62
3.	Volatile Matter	%	41.61
4.	Carbon Content	%	93.38
5.	Nitrogen	%	0.033
6.	Total Sulphur	%	2.13
7.	Gross Calorific Value	Kcal/kg	4409.8

Note: --

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

Checked By:



Nilesh C. Patel
(Sr. Chemist)

Authorized By:



Nitin B. Tandel
(Technical Manager)

		DATE:-	
EQUIPMENT :- CENTRIFUGAL PUMP		YES/NO/N A	REMARKS
10	REPLACE BEARINGS & OIL SEALS		
20	CHECK IMPELLER & REPLACE IF REQUIRED		
30	BALANCING OF IMPELLER		
40	CHECK SHAFT AND REPLACE IF REQUIRED		
50	TRUENESS CHECKING OF SHAFT		
60	CHECK SLEEVE & REPLACE IF REQUIRED		
70	CHECK STUFFING BOX & REPLACE IF REQUIRED		
80	CHECK CASING & REPLACE IF REQUIRED		
90	CHECK HOUSING & REPLACE IF REQUIRED		
100	CHECK BEARING CVR & REPLACE IF REQUIRED		
110	REPLACE MECHANICAL SEAL		
120	REPLACE CASING PACKING		
130	REPLACE BASE FRAME IF CORRODED		
140	CHECK COUPLING & REPLACE IF REQUIRED		
150	CHECK ALIGNMENT OF DRIVE UNIT		
160	REPLACE LUBRICATION OIL/GREASE		
170	CHECK BREATHER PLUG & REPLACE IF REQUIRE		
180	CHECK COUPLING GAURD &REPLACE IF REQUIRE		
190	CHECK FOUNDATION & RECASTED IF REQUIRED		
200	CHECK INSULATION & REPAIRED IF REQ.		
210	CHECK PAINTING COND. & REPAINT IF REQ.		

CHECKED BY:-			
APPROVED BY:-			

Standard EC Conditions for Pharmaceutical/Chemical Industry sector

Sr. No.	Condition	Compliance status
1	Statutory compliance	
1	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project	Not Applicable The project site is located at Dahej SEZ-II notified industrial estate.
2	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not Applicable The project site is located at Dahej SEZ-II notified industrial estate.
3	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-I species in the study area)	Not Applicable The project site is located at Dahej SEZ-II notified industrial estate.
4	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.	Complied The unit obtained the CCA amendment No. AWH- 112729 dated 15/06/2021 valid till 19/05/2028, under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee. Copy of the same is attached as Annexure A .
5	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Complied. The unit has obtained permission from the GPCB CCA amendment No. AWH-112729 dated 15/06/2021 valid till 19/05/2028,for collection, storage and disposal of hazardous waste.The solid waste is disposed to BEIL, Ankleshwar, process waste is disposed to RSPL for co processing & Aluminium Hydroxide (Process Waste) recycle to Pradip Overseas (Rule-9) through manifest system and GPS.
2	Air quality monitoring and preservation	

1	<p>The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories</p>	<p>Compiled Unit has installed OCEMS system as per CPCB guideline for water and Air applicable to dyes and dyes intermediates which is under operation The calibrate these system from time to time according to equipment supplier.</p>
2	<p>The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.</p>	<p>Compiled. The fugitive emissions in the work zone environment are monitored by in house facilities as well as done by a third party consultant who has a MoEF&CC/GPCB/NABL approved laboratory. Unistar NABL Certification No.: TC-7753 All the results are within the prescribed limit.</p>
3	<p>The project proponent shall install system to carry out Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM₁₀ and PM_{2.5} in reference to PM emission, and SO₂ and NO_x in reference to SO₂ and NO_x emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.</p>	<p>Compiled. The unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) at upwind and downwind location by a MoEF approved laboratory Unistar Environment & Research Labs Pvt. Ltd.). The results of the analysis are provided in the table. Unistar NABL Certification No.: TC-7753</p>

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4	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through a stack of adequate height as per CPCB/SPCB guidelines.	Complied. Unit has a closed handling system for coal. Unit has a coal storage area. . Unit as provided silo for coal storage . We have provided a lime addition system along with coal for control SO2 emission.
5	Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Complied Unit has provided silos and storage areas for coal.
6	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed	Complied. Unit has follows the NES for ambient air. Please refer above point no 3 for ambient air monitoring . All the parameters are well within the limit.
7	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16" November, 2009 shall be complied with.	Complied. Unit has follows the NES for ambient air. Please refer above point no 3 for ambient air monitoring . All the parameters are well within the limit.
3 Water quality monitoring and preservation		
1	The project proponent shall provide online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD)	Complied . Unit has provided online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises (applicable in case of the projects achieving ZLD) which is under working condition.
2	As already committed by the project proponent, Zero Liquid Discharge shall	Complied.

3	The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986,	Complied. The effluent coming from various plants are collected and treated in ETP consists of Primary, secondary and tertiary treatment facilities. And further treatment in
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	or as specified by the State Pollution Control] Board while granting Consent under the Air/Water Act, whichever is more stringent.	RO followed by MEE.												
4	Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.	The tabular data below indicate that unit has not exceeded the prescribed limit for water consumption i.e. 1186.5 KLD. Metering facilities have been provided along with flowmeter and the records are maintained for water consumption.												
5	Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.	Unit has provided separate plant drain/pits and storm water drains hence Process effluent/any wastewater shall not be allowed to mix with storm water. Plant pits are connected to ETP. The storm water from the premises is collected and discharged through a separate conveyance system.												
6	The Company shall harvest rainwater from the rooftops of the buildings and storm water drains to recharge the groundwater and utilize the same for different industrial operations within the plant.	Complied. The harvest rainwater from the rooftops is provided and under operation.												
7	DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.	Complied Unit has been provided with suitable pollution control devices and the adequate stack height. The emission all parameters are well within the limit. <table border="1" data-bbox="654 1444 1279 1692"> <thead> <tr> <th>Sr. No.</th> <th>Stack attached to</th> <th>Stack height (m)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>DG Set 1000 KVA</td> <td>30</td> </tr> <tr> <td>2</td> <td>DG Set 1000 KVA</td> <td>30</td> </tr> <tr> <td>3</td> <td>DG Set 1500 KVA</td> <td>30</td> </tr> </tbody> </table>	Sr. No.	Stack attached to	Stack height (m)	1	DG Set 1000 KVA	30	2	DG Set 1000 KVA	30	3	DG Set 1500 KVA	30
Sr. No.	Stack attached to	Stack height (m)												
1	DG Set 1000 KVA	30												
2	DG Set 1000 KVA	30												
3	DG Set 1500 KVA	30												
4 Noise monitoring and prevention														
1	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Complied Acoustic enclosure has been provided to DG set for controlling the noise pollution												

2	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.	Complied Overall noise levels in and around the plant are within the limit.
3	The ambient noise levels should conform to the standards prescribed under EPA Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Complied. The noise levels in the plant conforms to the standards prescribed in the EP Act, 1986. Noise monitoring is carried out by a MoEF approved laboratory (Unistar Environment & Research Labs Pvt. Ltd.)


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5	Energy Conservation measures	
	The energy sources for lighting purposes shall preferably be LED based	Complied Unit has provided the LED based lighting system at the maximum level.

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6	Waste management	
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1	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farms and the solvent transfer through pumps	Complied All the Hazardous chemicals are stored in Tanks, all the chemicals are transferred through Pumps, and the Plant is operated under the DCS.
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2	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF	Complied Process organic residue are sent to co processing through pre processor, ETP sludge is being send to TSDF, Aluminium Hydroxide is being send to end user under rule 9 approved party.
3	The company shall undertake waste minimization measures as below:-	
	a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Complied. Metering has been provided with active ingredients to minimize waste. Complied. The by-product generated by the unit (Al(OH) ₃) is sent to the authorized party of Rule 9 (Pradip Overseas) where it is recycled in their process.
	c. Use of automated filling to minimize spillage.	Complied. Closed system is used for filling of materials to minimize spillage. DCS systems are provided for the process.
	d. Use of Close Feed system into batch reactors. e. Venting equipment through vapour recovery system.	Complied. "Close feed" system is used in batch reactors and continuous reactors. Complied. Venting equipment are connected to recovery system like scrubber and condensers.
	f. Use of high pressure hoses for equipment clearing to reduce wastewater Generation	Complied. High pressure hoses are used for equipment cleaning to reduce wastewater generation
7	Green Belt	
1	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Complied. Unit has developed a greenbelt within the premises as per the guidelines of CPCB. Photos for same are attached as below: 

		
8	Safety, Public hearing and Human health issues	

1	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented	Complied Unit has prepared onsite offsite emergency plan based on the Hazard identification and Risk Assessment (HIRA) and same has been submitted to DISH.
2	The unit shall make the arrangement for protection of possible fire hazards during the manufacturing process in material handling. Fire fighting system shall be as per the norms	Complied Unit has provided the protection of possible fire hazards during the manufacturing process, Also provided the Fire fighting system like fire hydrant systems and fire extinguishers as the prevailing norms.
3	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Complied Sufficient Personal Protective Equipments are provided to all the workers like Safety goggles, safety shoes, helmet, dust mask, gas mask, hand gloves, etc. The unit is doing Regular training and supervision to ensure the proper usage of PPEs.

4	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on a regular basis.	Complied. Training is given to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees are done on a regular basis. Training to all employees on handling chemicals is imparted regularly.
5	Training to all employees on handling of chemicals shall be imparted.	Complied Training to all employees on handling of chemicals has been imparted.
6	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied Construction workers are not allowed to stay in the site, however necessary provisions and infrastructure facilities like mobile toilets, safe drinking water and medical health care and creche have been provided.
7	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied. Occupational health surveillance of the workers is carried out on half yearly basis and records are maintained as per the factory act. Following check up has been carried out in periodical medical checkup. - General checkup (height, weight, pulse, BP etc) - Blood test (RBC, WBS, hemoglobin, platelets, blood group, differential

8	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places	count, G6PD etc) - Urine test (physical, chemical and microbial examination etc) - Vision test - Pulmonary function test - Audiometry - ECG - met Hb for specific workers Complied Adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products.
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9	Corporate Environment Responsibility	
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4	<p>Action plan for implementing EMP and environmental conditions along with the responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in a separate account and not to be diverted for any other purpose. Year wise progress of implementation of the action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.</p>	Complied.
5	<p>Self environmental audit shall be conducted annually. Every three years, a third party environmental audit shall be carried out.</p>	<p>Complied Self environment audits are carried out Regularly.</p>

10	MISCELLANEOUS:	
1	<p>The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.</p>	<p>Compiled. Due to oversight, the advertisement of EC was not published within the stipulated time period. We deeply regret not publishing the advertisement of EC within the stipulated time period.</p>
2	<p>The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on a half-yearly basis.</p>	Compiled.

4	<p>The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.</p>	<p>Noted and compiled . Unit has installed ambient air monitoring stations as per CPCB guideline. Unit have ambient air monitoring for PM₁₀, PM_{2.5}, SO₃, NO_x . All the parameters are well within the limit. The unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) at upwind and downwind location by a MoEF approved laboratory Unistar Environment & Research Labs Pvt. Ltd.).</p>
5 6 7	<p>The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company The project proponent shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities, commencing the land development work and start of production operation by the Project.</p>	<p>Compiled. Compiled. Unit has submitted yearly the environmental statement for each financial year in Form-V. We have submitted environmental statement for period April 2022 to March 2023 Complied. The date of start of the project is 01/01/2014 by concerned authority. LOA Copy Received from SEZ:- 14/03/2012. This project is self financed. We intimated the ministry through a half yearly compliance report.</p>
8	<p>The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.</p>	<p>Compiled . Unit has obtained EC to CTO # AWH-112729 dated 15/06/2021 under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 . All the CTO conditions are complied. Unit has obtained latest CCA amendment No. AWH- 112729 dated 15/06/2021 valid till 19/05/2028, under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee. Unit have obtained PLI policy , Policy no 03040113710000 which is valid up to 08/01/2025</p>

9	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Complied
10	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Complied. We have taken all applicable prior permissions from MoEF&CC for expansion or modifications.
11 12 13	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted for compliance Noted for compliance Noted and compliance
14	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Noted for compliance . We are submitting half yearly compliance reports on regular basis.
15	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any	Compiled . All the CTO conditions are complied. Unit has obtained the latest CCA amendment No. AWH- 112729 dated 15/06/2021 valid till 19/05/2028, under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee. Unit have obtained PLI policy , Policy no 03040113710000 which is valid up to 08/01/2025

	other Court of Law relating to the subject matter.	
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16	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted for compliance
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No. SEIAA/GUJ/EC/5(f)/ 173 /2013

Date: 15 JUL 2013
Time Limit

Sub: Environment Clearance to M/s. Anushakti Specialities Ltd. (Liability Partnership) for setting up of a pigment manufacturing unit at Plot No. Z/103/H, Dahaj SEZ, Tal. Vagra, Dist. Bharuch..... In Category 5 (f) of Schedule annexed with EIA Notification dated 14/9/2006.

Dear Sir,

This has reference to your application along with Form-I vide letter dated 07/01/2012, EIA Report vide letter dated 09/01/2013, Additional information / documents vide letter dated 03/06/2013, submitted to the SEAC, seeking Environmental Clearance under Environment Impact Assessment Notification, 2006.

The proposal is for M/s. Anushakti Specialities Ltd. (Liability Partnership) for setting up of a pigment manufacturing unit at Plot No. Z/103/H, Dahaj SEZ, Tal. Vagra, Dist. Bharuch. The unit is proposing to manufacture synthetic organic chemicals. The proposed products and by-products with production capacities are shown in table below:

Sr. No.	Name of product / by-product	Capacity in MT/Month
1	Ethylation and Propoylation Products [2- Methyl 6- Ethyl Aniline 2,6- Diethyl Aniline 3- Methyl 2-6 Diethyl Aniline 4-Methyl 2-6 Diethyl Aniline Isopropyl Aniline and 2, 6 Diisopropyl Aniline 2- Methyl-6-Isopropyl Aniline 4- Methyl 2,-6 Diisopropyl Aniline]	1600
2	Hydrogenated Products [Ortho Tokudene Chloro Aniline DiChloro Aniline TriChloro Aniline Ortho Phenylene Diamine Phenylene Diamine 3,4 Diamino Diphenyl Ether 4,4 Diamino Diphenyl Ether]	500
3	Chlorination Products	
	Monochloro Benzene	1250
	Ortho Dichloro Benzene	800
	Para Dichloro Benzene	1200
	By-products	
4	Calcium Chloride (90% basis) or HCl (30%)	2416.54 or 4844.22
5	Al(OH) ₃ or Al ₂ O ₃	122.1 or 79.65
6	HF	19.5
7	H ₃ BO ₃	20.25

The proposed project falls in the project no. 5(f) in the schedule of the EIA Notification-2006. As the project is located in notified industrial estate, it falls in Category B.

The project activity is covered in 5(f) and is of 'B' Category. Since, the proposed project is located in the 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 had recommended to the SEIAA, Gujarat, to grant the Environment Clearance to this project for the above-mentioned project. The proposal was considered by SEIAA, Gujarat in its meeting held on 01.07.2013 at Gandhinagar. Since the public consultation is not required for the project, 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.

SPECIFIC CONDITIONS:

A.1 WATER

1. Fresh water requirement shall not exceed 614.6 KL/day and it shall be met by water supply system of the Dahej SEZ. Metering of water shall be done and records of daily water consumption shall be maintained. No ground water shall be used for the project.
2. Industrial effluent generation shall not exceed 86.85 KL/day whereas domestic wastewater generation shall not exceed 7 KL/day.
3. Effluent to the tune of 25.85 KL/day [16.45 KL/day of process and washing effluent after solvent recovery by distillation, 2.4 KL/day of scrubber effluent and 7 KL/day of domestic wastewater] shall be treated in the ETP comprising of primary, secondary and tertiary treatment facilities.
4. 25.85 KL/day of treated effluent from ETP, 20 KL/day of D.M. generation effluent, 13 KL/day of boiler blow-down and 35 KL/day of cooling tower blow-down; i.e. total 93.85 KL/day of effluent shall be passed through RO system. RO permeate water to the tune of 70.35 KL/day shall be reused in cooling tower whereas RO reject water to the tune of 23.5 KL/day shall be evaporated completely with help of MEE. Hence, there shall be no effluent discharge from the unit.
5. Condensate water from MEE shall be completely reused in cooling tower.
6. The unit shall provide adequate ETP comprising of primary, secondary & tertiary treatment facilities RO Plant and MEE for treatment and disposal of wastewater. These facilities shall be operated regularly and efficiently so as to achieve and maintain zero discharge status.
7. The unit shall not get GIDC underground drainage connection and strictly adhere to the zero discharge status.
8. The unit shall provide metering facility, maintain records of effluent treated, reused & evaporated and furnish it to the GPCB from time to time.
9. Proper logbooks of ETP, RO Plant and MEE operations and also showing chemical consumption, power consumption, quantities of effluent treated, reused, evaporated reused etc. shall be maintained and furnished to the GPCB from time to time.
10. Regular performance evaluation of the ETP shall be undertaken every year to check its adequacy, through credible institutes like L.D. College of Engineering, NPC or such other institutes of similar repute. and its records shall be maintained.
11. 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 GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.

A.2 AIR

12. Natural gas to the tune of 2000 Kg/Hr, 187.5 Kg/Hr & 5 Kg/Hr shall be used as a fuel in Boiler-1 (20 TPH), Thermic Fluid Heater & flaring respectively.
13. Diesel to the tune of 270 Lt/Hr shall be used as a fuel in each of the D.G.Sets (1000 KVA x 2 no.).
14. Coal to the tune of 3333.3 Kg/Hr, 200 Kg/Hr & 200 Kg/Hr. shall be used as a fuel in Boiler-2 (20 TPH), CaCO₃ Drier & Ethylation Furnace respectively.
15. ESP shall be provided for control of flue gas emission from the coal fired Boiler-2.
16. Wet scrubbers shall be provided for control of flue gas emission from CaCO₃ Drier and Ethylation Furnace.
17. The process emission of HCl from CaCO₃ Reactor and HCl & Cl₂ from Chlorinator shall be controlled with help of Falling Film Absorber followed by Alkali Scrubber.
18. The air pollution control equipments / systems shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at vent / stack outlets.
19. Stacks of adequate height as per prevailing norms shall be provided for the flue gas and process emissions.
20. The unit shall undertake measures for solvent recovery and adequate reflux condensers and chilled brine secondary condensers shall be provided for controlling escape of low boiling solvents. Solvent recovery shall not be less than 95 percent in any case.
21. 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.
22. The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health).
23. Regular monitoring of ground level concentrations of SO₂, NO_x, HCl, Cl₂, PM₁₀ and PM_{2.5} 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.3 HAZARDOUS / SOLID WASTES:

24. The unit must strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2008. Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.
25. The hazardous wastes shall be stored in separate designated hazardous waste storage facility with impervious bottom and leachate collection facility, before its disposal.
26. ETP sludge shall be sent to the Common TSDF. The unit shall obtain necessary membership of the nearest TSDF operator before commencing production activities.
27. Residues from Hydrogenation and Chlorination shall be sent to the Common Hazardous Waste Incineration [CHWI] facility. The unit shall obtain membership of the nearest CHWI operator before commencing production activities.
28. Spent catalyst shall be sold only to the registered recyclers / regenerators.
29. Used oil shall be sold only to the registered recyclers.
30. HCl (30%) shall be converted to Calcium Chloride in onsite CaCl₂ Plant and HCl (30%) shall be sold to sister concern M/s. Aarti Salt & Chemical located at Plot No. A/1-6 & 9, Phase-I, GIDC, Vapi, only during unforeseen circumstances.
31. Other co-products / spent acids shall be sold only to authorized actual end consumers and records of sell shall be maintained and furnished to the GPCB from time to time.
32. The discarded containers / drums / liners / bags shall be either reused or sold only to registered recyclers after its decontamination.

A.4 SAFETY:

33. The project management shall strictly comply with the provisions made in the Factories Act, 1948 as well as Manufacture, Storage and Impact of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals.
34. Necessary approvals from PESO and concerned Govt. Authorities shall be obtained before commissioning of the project.
35. All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of hazardous chemicals; especially solvents and chlorine.
36. Proper ventilation shall be provided in the work area.
37. Storage and use of hazardous chemicals shall be minimized to the extent possible.
38. Hazardous materials storage shall be at an isolated designated location, bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.
39. Storage of hazardous chemicals shall be in multiple small capacity tanks / containers instead of one single large capacity tank to reduce the risk.
40. All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Close handling system for chemicals shall be provided.
41. Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.
42. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity at all the times.
43. Necessary tie up with the nearby doctor qualified for occupational health shall be made to ensure that the medical treatment is given within the shortest possible time in case of any adverse condition.
44. Training shall be given to all workers on safety and health aspects of handling chemicals.
45. Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act and Rules.
46. The project management shall prepare a detailed Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health.
47. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act & Rules.
48. All transporting routes within the factory premise shall have paved roads to minimize splashes and spillages.

A.5 NOISE:

49. The overall noise level in and around the plant area shall be kept well within the prescribed standards by providing noise control measures including acoustic insulation, hoods, silencers, enclosures vibration dampers etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act and Rules. Workplace noise levels for workers shall be as per the Factories Act and Rules.

A.6 WASTE MINIMIZATION & CLEANER PRODUCTION

50. 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.
51. The company shall undertake following waste minimization measures:
 - 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 in other process.
 - 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 equipment cleaning to reduce wastewater generation.

- g. Sweeping / mopping of floor instead of floor washing to avoid effluent generation.
- h. Regular preventive maintenance for avoiding leakage, spillage etc

4.7 GREEN BELT

- 52. 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 at suitable open land on road sides and other open areas within the GIDC / SEZ area or in nearby locality / schools and submit an action plan of plantation for next three years to the GPCB.
- 53. Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.

B. OTHER CONDITIONS:

- 54. 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.
- 55. A separate Environment Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environment Management and Monitoring functions.
- 56. The funds earmarked for environment protection measures shall be maintained in a separate account and there shall not be any diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards shall be reported.
- 57. During material transfer, spillages shall be avoided and gulland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.
- 58. Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
- 59. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.
- 60. The company shall carry out socio-economic developmental / community welfare activities in consultation with the District Development Officer / District Collector.
- 61. The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the EIA report.
- 62. The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.
- 63. 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.
- 64. 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.
- 65. 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.
- 66. It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.
- 67. The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.
- 68. 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.
- 69. The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.
- 70. 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. 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.
- 71. This environmental clearance is valid for five years from the date of issue.
- 72. 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.

With regards,

Yours sincerely,

(A.A.DOLTI)

Member Secretary

Issued to:

**Shri Kirit R. Mehta, Director,
Anushakti Specialities Ltd.,
Plot No. 801/23, GIDC Estate,
Phase-III, Vapi.**

Copy to:-

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
4. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
5. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010
6. Select File


(A.A. DOLTI)

Member Secretary



No. SEIAA/GUJ/EC/5(f)/547/2019

Date: 10 APR 2019

BY R.P.A.D.

Amendment to Environment Clearance Order No:- SEIAA/GUJ/EC/5(f)/173/2013 dated 02/07/2013.

(Under the provision of Environmental Impact Assessment (EIA) Notification, 2006)

In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) Notification, 2006 under sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted to **M/s. Aarti Industries Limited** located at **Plot No. Z/103/H, Dahej SEZ, Ta: Vagra, Bharuch**, vide this office letter no. **SEIAA/GUJ/EC/5(f)/173/2013 dated 02/07/2013**, is being subjected to amendment for the following change in the project.

And whereas SEIAA has granted Environment Clearance vide office order letter no. **SEIAA/GUJ/EC/5(f)/173/2013 dated 02/07/2013**, under the provisions of the aforesaid Notification.

And whereas project proponent has applied for amendment in the environmental clearance vide their online application vide No. **SIA/GJ/IND2/25978/2013 dated 18/07/2018**. The project was scheduled for hearing in the SEAC meeting held on **17/09/2018**. Additional information / documents submitted vide letter dated **18/12/2018** to the SEAC.

The SEAC, Gujarat had recommended the project vide their letter dated **08/03/2019** to grant amendment in Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on **08/01/2019**. The proposal was considered by SEIAA, Gujarat in its meeting held on **08/03/2019** at Gandhinagar. After careful consideration, Environment Clearance order dated **02/07/2013** is hereby amended as under, subject to amendment with respect to changes in the planning of the project.

1. Condition No. 1, 2, 4, 12, 14, & 15 of the environmental clearance order no. **SEIAA/GUJ/EC/5(f)/173/2013 dated 02/07/2013** have been amended and shall be read as under:

Condition No. 1 - Total water requirement for the project shall not exceed **1186.5 KLD**. Unit shall reuse **171.5 KLD** of waste water. Hence, fresh water requirement shall not exceed **1186.5 KLD** and it shall be met by water supply system of the Dahej SEZ. Metering shall be done and records of daily water consumption shall be maintained. No ground water shall be used for the project. Prior permission from the concerned authority shall be obtained for withdrawal of water.

Condition No. 2- Industrial Effluent generation shall not exceed **165.85 KLD** whereas domestic waste water generation shall not exceed **7 KLD**.

Condition No. 4- **25.85 KLD** of treated effluent from ETP, **50 KLD** of DM generation effluent, **62 KLD** of boiler blow down and **35 KLD** of cooling tower blow down i.e Total **165.85 KLD** of effluent shall be passed through RO system (Cap. **150 KLD + 60 KLD**) and MEE (Cap. **60 KLD**). RO Permeate (**129 KLD**) and MEE condensate (**42.5KLD**) water to the tune of **171.5 KLD** shall be reused in cooling tower. Hence there shall be no effluent discharge from the unit.

Condition No. 12 - Natural gas to the tune of **187.5 kg/Hr & 5 Kg/Hr** shall be used as a fuel in Thermic fluid Heater & Flaring respectively.



Condition No. 14 - Coal to the tune of 3333.3 kg/Hr, 12917 Kg/Hr, 200 kg/Hr & 200 Kg/Hr shall be used as a fuel in 20 TPH steam Boiler -1, 67 TPH steam Boiler -2, CaCO₃ Drier Vent & Ethylation Furnace Respectively.

Condition No. 15- Adequate Electrostatic Precipitator-ESP as APCM shall be provided for control of flue gas emission from the coal fired Boilers (20 TPH & 67 TPH Boilers).

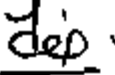
2. The following additional Conditions shall be added in the environmental clearance order no. SEIAA/GUJ/EC/5(f)/173/2013 dated 02/07/2013 and shall be read as under:

- Unit shall remove existing Natural gas based 20 TPH steam Boiler.
- There shall be no change in product profile as prescribed in the earlier Environmental Clearance dated 02/07/2013.
- Unit shall take all precautionary measures during transfer of steam to their sister concern units namely M/s. Aarti Industries Ltd. (Unit II) located at Plot No. Z/103/C & M/s. Aarti Industries Ltd. (Unit III) located at Plot No. Z/111/B.
- Unit shall obtain necessary permissions, if any, from the concern authority regarding laying piping network for steam supply.
- Sulfur and ash content of the fuel to be used shall be analyzed and its record shall be maintained.
- A long term study of radio activity and heavy metals contents on coal/ignite to be used shall be carried out through a reputed institute and results thereof analyzed regularly and reported along with monitoring reports. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal/ignite and fly ash (including bottom ash) shall be put in place.
- A flue gas stack of 80 m height shall be provided with online monitoring system to proposed Steam Boiler. Mercury emissions from stacks shall also be monitored on periodic basis. However, unit shall comply the specific condition no. 13 above regarding height of the Boiler stack.
- High efficiency Electro Static Precipitators (ESP) with efficiency not less than 99.9% shall be installed for control of flue gas emission from the proposed Boilers. The ESP shall be operated efficiently to ensure that particulate matter emission does not exceed the GPCB norms. The control system shall be designed and integrated in plant DCS in such a way that if emission from ESP exceeds the specified standard prescribed in the Environment (Protection) Rules, 1986 as amended from time to time, utilization of boiler capacity shall reduce so that flue gas emission from the stack meets with the specified standards or boiler shall shut down totally.
- Third party monitoring of the functioning of the ESP along with its efficiency shall be carried out once in a year through a reputed institute / organization.
- Lime stone Injection technology shall be adopted to control SO₂ and it shall be ensured that SO₂ levels in the ambient air do not exceed the prescribed standards.
- The company shall prepare schedule and carry out regular preventive maintenance of mechanical and electrical parts of ESPs and assign responsibility of preventive maintenance to the senior officer of the company.
- Unit shall comply provisions of MoEFCC's O.M. No. 22-65/2017-IA.III dated 01/05/2018 regarding Corporate Environment Responsibility (CER). Fund allocation for Corporate Environment Responsibility (CER) shall be made as per the said OM dated 01/05/2018 for various activities therein. Item-wise details along with time bound action plan shall be prepared and submitted to the concern authorities.

- 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 as mentioned at Sr. no. XX.
- The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.
- All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.
- 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.

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/5(f)/173/2013 dated 02/07/2013 shall remain unchanged.

With regards,
Yours sincerely,



(S. M. SAIYAD)
Member Secretary

Issued to:

Shri Kirit R. Mehta (Director),
Aarti Industries Ltd.,
Plot No. 801/23, GIDC Estate,
Phase-III, Vapi- 396195





No. SEIAA/GUJ/EC/5(f)/ 255 /2024

Date: 29 FEB 2024 By R P A D

Amendment to Environment Clearance Order No:-SEIAA/GUJ/EC/5(f)/2630/2022 on dated 07/11/2022.
(Under the provision of Environmental Impact Assessment (EIA) Notification, 2006)

In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) Notification, 2006 under sub-rule (3) of Rule 5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted M/s. Aarti Industries Limited (Unit - I) for setting up of expansion of manufacturing plant for 'Synthetic Organic Chemicals' at Plot No. Z/103/H, GIDC Notified Industrial Estate, SEZ-II, Dahej-392130, Taluka Vagra, Dist. Bharuch, Gujarat, India vide this office letter no. SEIAA/GUJ/EC/5(f)/2630/2022 on dated 07/11/2022, is being subjected to amendment in Condition no. 8, 17 & 19.

And whereas SEIAA has granted Environment Clearance vide office order letter no. SEIAA/GUJ/EC/5(f)/2630/2022 on dated 07/11/2022, under the provisions of the aforesaid Notification.

And whereas project proponent has applied for amendment in the environmental clearance vide their online application vide No. SI/GJ/IND3/303660/2023 dated 13/09/2023. The project was scheduled for hearing in the SEAC meeting held on 07/12/2023.

The SEAC, Gujarat had recommended the project vide their letter dated 01/02/2024 to grant amendment in Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on 07/12/2023. The proposal was considered by SEIAA, Gujarat in its meeting held on 20/02/2024 at Gandhinagar. After careful consideration, amendment in Condition no. 8, 17 & 19 of Environment Clearance order dated:07/11/2022 is issued as below.

Additional Condition:

- Total water requirement for the proposed project shall not exceed 3067 KLD. Unit shall reuse 776 KLD of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 2291 KLD and it shall be met through GIDC water supply only.
- Project proponent shall obtain prior permission from concerned authority for drawl of water.

Condition no. 8, 17 & 19 shall now be read as under:

Condition No. 8 (A.8 Water):

- Total water requirement for the proposed project shall not exceed 3067 KLD. Unit shall reuse 776 KLD of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 2291 KLD and it shall be met through GIDC water supply only. Prior permission from concerned authority for withdrawal of water shall be obtained.

Condition No. 17 (A.3 Air):

- Unit shall not exceed fuel consumption for boilers, TFHs and D G Sets as mentioned below:

Sr. No.	Source of Emission With Capacity	Stack Height (meters)	Type of Fuel	Quantity of Fuel MT/Day	Type of emissions i.e., Air Pollutants	Air Pollution Control Measures (APCM)
Total After EC Amendment						
1	Boiler-I Capacity: 20 TPH	42 (Common chimney with Boiler)	Coal	3.3333 MT/hr	PM-150 mg/Nm ³ SO ₂ -100 ppm NOx-50 ppm	ESP+ Dry scrubber (Lime dosing along with coal)
2	Thermic Fluid Heater Capacity: 20 Lac K Cal/hr		Natural gas	0.1875 MT/hr		
3	Boiler-II Capacity: 67 TPH	80 (Common chimney)	Coal	12.917 MT/hr		ESP + Dry scrubber (Lime dosing along with coal)

4	Boiler-III Capacity: 67 TPH		Coal	12.917 MT/hr		ESP + Dry scrubber (Lime dosing along with coal)
5	Thermic Fluid Heater Capacity: 40 Lac Kcal/hr	35	Coal or Natural Gas	1.4 MT/hr Or 0.5625 MT/hr		Bag filter + Dry scrubber (Lime dosing along with coal)
6	D.G. Set Capacity: 1000 KVA	30	Diesel	270 L/hr		--
7	D.G. Set Capacity: 1000 KVA	30	Diesel	270 L/hr		--
8	D.G. Set Capacity: 1500 KVA	30	Diesel	300 L/hr		--
9	D.G. Set Capacity: 2500 KVA	30	Diesel	750 L/hr		--

Note:

1. For 40 Lakh kcal/Hr thermic fluid heater if natural gas use only then NOx burner and adequate stack height will be provided.

2. It is to be noted that steam shall be supplied from sister concern unit M/s. Aarti Industries Limited (Unit-II), Dahej, SEZ-II (PCB ID# 58381) i.e., 70 TPH and Aarti Industries Limited (Unit-III), Dahej, SEZ-II (PCB ID# 62935) i.e., 59 TPH. Condensate shall be sent back to the same unit.

Condition No. 19 (A.3 Airt):

19. 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)
1	Scrubber to Hydrolysis Process - Plant I & II	HCl	11	Caustic Scrubber
2	Flare stack (Reactor NG consumption 10 kg/hr for flaring)	-	18	-

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/5(1)/2630/2022 on dated 07/11/2022 shall remain unchanged.


(ASAV P. GADHVI)

Member Secretary

Issued to:

M/s. Aarti Industries Limited (Unit - I)

Plot No. Z/103/H, GIDC Notified Industrial Estate, SEZ-II, Dahej-392130,

Taluka Vagra, Dist. Bharuch, Gujarat, India

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. The Additional Principal Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal-462016, MP
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. Subject File

SEIAA



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 - 108738

NO: GPCB/BRCH/CCA-178(2)/ID- 41201/_____

DT: ___/10/2020

To,
✓ **M/s. Aarti Industries Ltd.,**
PLOT NO: Z/103/H,
Dahej SEZ-II TAL. VAGRA,
DIST-BHARUCH.

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

REF: Your application No. 174449 dated 19/03/2020.

Sir,

This has reference to the CCA order No: AWH - 80396, issued vide letter no. GPCB-BRCH-B-CTE-160/ID-41201/368869 dated 07/09/2016 under the provisions of the various Environmental Act/ Rules, which stands amended as under.

1. There shall be no change in production quantity/capacity.

2. Specific conditions:

- Unit shall comply with all the conditions stipulated by SEIAA / MoEF in the order of Environment Clearance issued vide letter no. SEIAA/GUJ/EC/5(F)/173/2013 dated 02/07/2013 and EC amendment No. SEIAA/GUJ/EC/5(F)/547/2019 dated 10/04/2019.
- Unit shall use fresh raw material only.
- Unit shall sell out their hazardous waste to authorized end users who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized end users and submit MoU.
- All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.
- Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.
- Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.
- Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.
- Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.

3. CONDITION UNDER THE WATER ACT:

3.1 The condition No. 4.1 for Water Consumption under Water Act of the CCA order No: AWH - 80396, issued vide letter no. GPCB- BRCH-B-CTE-160/ID-41201/368869 dated 07/09/2016 is amended and shall now be read as under.

- a. Domestic: 7 KL/Day (Existing 7 KLD + Proposed 0 KLD)
 - b. Industrial: 1225 KL/Day (Existing 575 KLD + Proposed 650 KLD) (1060.84 (Fresh)+164.16 (Recycled))
 - c. Gardening: 18 KL/Day (Existing KLD + Proposed 0 KLD)
- Total: 1250 KL/Day (Existing 600 KLD + Proposed 650 KLD) (1085.84(Fresh)+164.16 (Recycled))**

3.2 The condition No. 4.2 for Wastewater Generation under Water Act of the CCA order No: AWH - 80396, issued vide letter no. GPCB- BRCH-B-CTE-160/ID-41201/368869 dated 07/09/2016 is amended and shall now be read as under.

- a. Domestic: 7 KL/Day (Existing 7 KLD + Proposed 0 KLD)
 - b. Industrial: 158.4 KL/Day (Existing 77 KLD + Proposed 81.4 KLD)
- Total: 165.4 KL/Day (Existing 84 KLD + Proposed 81.4 KLD)**

3.3 Mode of disposal of wastewater:

- a) The industrial effluent from washing (3 KLD), Process (6 KLD) & sewage (7 KLD) will be treated in ETP followed by RO.
- b) Total 147 KLD i.e. Effluent from neutralization (50 KLD), Boiler blowdown (62 KLD) & cooling tower blowdown (35 KLD) shall be treated in RO.
- c) RO reject (41.35 KLD) shall be set for Evaporation.
- d) Total @164.16 KLD i.e RO permeate (124.05) and MEE condensate (40.11 KLD) shall be reused in cooling tower.

4. CONDITIONS UNDER THE AIR ACT:

4.1 The condition No. 5.1 for Fuel Consumption under Air Act of the CCA order No: CCA order No: AWH - 80396, issued vide letter no. GPCB- BRCH-B-CTE-160/ID-41201/368869 dated 07/09/2016 is amended and shall now be read as under.

Sr. No.	Name of fuel	Quantity		
		Existing	Proposed	Total
1	Coal	83.6 MT/Day	306.4 MT/Day	390 MT/Day
2	Natural Gas	187.5 kg/hr	0	187.5 kg/hr
3	Diesel	540 lit/hr	0	540 lit/hr

4.2 The condition No. 5.3 for Flue gas stacks under Air Act of the CCA order No: AWH - 80396, issued vide letter no. GPCB- BRCH-B-CTE-160/ID-41201/368869 dated 07/09/2016 is amended and shall now be read as under.

Sr. No.	Stack attached to	Stack height (m)	APCM	Parameter	Permissible limit
Existing					
1.	Boiler-1 (Cap: 20	42	ESP		



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	TPH)			PM	150
2.	Thermic Fluid Heater (Cap: 6 Lac Kcal/Hr)			SO ₂	mg/NM ³
3.	D.G. Set (02 No's) (Cap: 1000 KVA each)	11	--	NO _x	100 ppm 50 ppm
4.	Ethylation Furnace vent	42	Wet Scrubber		
Proposed					
5.	Boiler -II (Cap: 67 TPH)	76	ESP + water scrubber	PM SO ₂ NO _x	150 mg/NM ³ 100 ppm 50 ppm
6.	Ethylation Furnace vent (TO BE REMOVED)	42	Wet Scrubber	TO BE DISCONTINUED	

Note: Steam shall sent to sister concern unit M/s Aarti Industries Limited (U-II), Dahe], SEZ II (ID-58381) and M/s Aarti Industries Limited (U-III), Dahe], SEZ II (ID-62935) and condensate sent back to the same unit.

- 4.3 The condition No. 5.5 for Process gas stacks under Air Act of the CCA order No:AWH - 80396, issued vide letter no. GPCB- BRCH-B-CTE-160/ID-41201/368869 dated 07/09/2016 is amended and shall now be read as under.

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
Existing					
1	Reactor (Natural Gas Consumption 5 Kg per hr. For flaring)	18	--	--	--
Proposed					
1	Scrubber attached to Hydrolysis Process	11	Caustic Scrubber	HCL	20 mg/nm ³

- 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 ³)	
		Annual	24 Hours Average
1.	Particulate Matter (PM ₁₀)	60	100

2.	Particulate Matter (PM _{2.5})	40	60
3.	Oxides of Sulphur (SO _x)	50	80
4.	Oxides of Nitrogen (NO _x)	40	80

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

- 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.
- 4.6 Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.
- 4.7 All efforts shall be made to control VOC emissions and odor problem, if any.
- 4.8 Total control of odor nuisance from the plant premises, shall be achieved & maintained by the unit continuously
- 4.9 Unit shall install continuous / online monitoring system in the stacks and shall transmit online data so generated simultaneously to GPCB and CPCB as well for the parameters such as PM, SO₂, NO_x, NH₃, HCl, other sector specific parameters etc., if applicable as per CPCB guideline.

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 AWH - 80396, issued vide letter no. GPCB- BRCH-B-CTE-160/ID-41201/368869 dated 07/09/2016 is amended and shall now be read as under.

Sr. No.	Name of Haz. Waste	Category Number	Quantity in MT/Year			Facility
			Exi.	Pro.	Total	
1	ETP sludge + MEE Salt	35.3	300	182	482	Collection, storage, transportation, disposal at common TSDF site
2	Used oil/spent oil	5.1	4	5	9	Collection, storage, transportation, disposal by selling out to registered recyclers/reprocessors.
3	Discarded Container	33.1	1.2	5	6.2	Collection, storage, transportation, disposal



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						by selling to authorized reprocessors/recyclers.
4	Process waste(Residue)	26.1	600	0	600	Collection, storage, transportation, disposal at common incinerator facility/ Co-processing
5	Spent Catalyst	26.5	0.12	0	0.12	Collection, storage, transportation, disposal by selling out to registered recyclers
6	Aluminium Hydroxide Al(OH) ₃	26.1	-	12168	12168	Collection, storage, transportation, disposal to Authorised End User Industry having permission under rule-9 of Hazardous & other wastes rule- 2016
7	Non Recycle Plastic Waste, PPE's & insulation waste /Cotton waste	33.1	0	20	20	Collection, storage, transportation, disposal by selling to authorized reprocessors/recyclers or TSDF
8	Spent Carbon	26.1	0	20	20	Collection, storage, transportation, disposal at common incinerator facility/ Co-processing
9	Off-specific ation product	26.1	0	12	12	Collection, storage, transportation, disposal at common incinerator facility/ Co-processing.

Other Waste:

Sr. No.	Name of Waste	Quantity	Facility
1.	Fly Ash	32 MT/Day	Collection, storage, transportation, disposal by selling to authorized reprocessors/recyclers.
2.	RO Membrane/ Cartridge Filter	4 MT/Year	Collection, storage, transportation, disposal at common TSDF site
3	Battery waste	5 MT/Year	Collection, storage, transportation, disposal by selling to authorized reprocessors/recyclers.

Outward No: 57036/1970/2020

4.	E Waste	5 MT/Year	Collection, storage, transportation, disposal by selling to authorized reprocessors/recyclers.
5.	Glass waste	10 MT/Year	Collection, Storage, Transportation, disposal /sold to scrap processors

6. All other conditions of the CCA order No: AWH - 80396, issued vide letter no. GPCB- BRCH-B-CTE-160/ID-41201/368869 dated 07/09/2016 shall now remain the same.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD



(P.B.Patel)
Dy. ENVIRONMENT ENGINEER

Outward No:570362,19/10/2020

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

Compliance report of Environmental Clearance File No. SEIAA/GUJ/EC/5(f)/2630/2022

Dated . 07/11/2022, October-2023 to March-2024


	Name of product / by-product	Capacity in MT/ Annum	As on Actual MT/Month	Remarks																																								
A	Ethylation and Propoylation Products 2- Methyl 6- Ethyl Aniline 2,6- Diethyl Aniline 3- Methyl 2-6 Diethyl Aniline 4-Methyl 2-6 Diethyl Aniline Isopropyl Aniline and 2, 6 Diisopropyl Aniline 2- Methyl-6-Isopropyl Aniline 4- Methyl 2,-6 Diisopropyl Aniline And/or 2- Ethyl Aniline (OEA) And/Or 3,5- Diethyl Toluene 2,6- Diamine (DETDA) and 3,5-Diethyl Toluene 2.4- Diamine (DETDA) And/Or 3-chloro-2,6-diethylaniline (CDEA) & 3-chloro-2-Ethylaniline (CEA)	54000	Complied. <table border="1" data-bbox="1018 527 1680 1307"> <thead> <tr> <th colspan="5">Production (MT)</th> </tr> <tr> <th>Month</th> <th>2-Methyl, 6-Ethyl Aniline (MEA)</th> <th>2,6 - Diethyl Aniline (DEA)</th> <th>3-Methyl 2-6 Diethyl Aniline (DEMA)</th> <th>Total Ethylation and Propoylation Products</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>0</td> <td>0</td> <td>248.5</td> <td>248.5</td> </tr> <tr> <td>November 2023</td> <td>211</td> <td>152</td> <td>0</td> <td>363</td> </tr> <tr> <td>December 2023</td> <td>1251</td> <td>0</td> <td>0</td> <td>1251</td> </tr> <tr> <td>January 2024</td> <td>1154</td> <td>0</td> <td>0.2</td> <td>1154</td> </tr> <tr> <td>February 2024</td> <td>810.7</td> <td>0</td> <td>0</td> <td>810.7</td> </tr> <tr> <td>March 2024</td> <td>1252</td> <td>0</td> <td>0</td> <td>1252</td> </tr> </tbody> </table> <p>Remarks:- Unit have applied for CCA amendment for 2-Ethyl Aniline (OEA) as inward no-280463 for the addition of the product 2-Ethyl</p>	Production (MT)					Month	2-Methyl, 6-Ethyl Aniline (MEA)	2,6 - Diethyl Aniline (DEA)	3-Methyl 2-6 Diethyl Aniline (DEMA)	Total Ethylation and Propoylation Products	October 2023	0	0	248.5	248.5	November 2023	211	152	0	363	December 2023	1251	0	0	1251	January 2024	1154	0	0.2	1154	February 2024	810.7	0	0	810.7	March 2024	1252	0	0	1252	Latest CCA copy is attached as Annexure-A The unit is having a valid EC for same attached as Annexure-B EC Extension & amendment No.SEIAA/GUJ/EC/5(f)/1639/2020 dated 31/12/2020 Annexure-C and EC Expansion No.SEIAA/GUJ/EC/5(f)/2630/2022 as Annexure-D
Production (MT)																																												
Month	2-Methyl, 6-Ethyl Aniline (MEA)	2,6 - Diethyl Aniline (DEA)	3-Methyl 2-6 Diethyl Aniline (DEMA)	Total Ethylation and Propoylation Products																																								
October 2023	0	0	248.5	248.5																																								
November 2023	211	152	0	363																																								
December 2023	1251	0	0	1251																																								
January 2024	1154	0	0.2	1154																																								
February 2024	810.7	0	0	810.7																																								
March 2024	1252	0	0	1252																																								

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

			<p>Aniline (Ortho Ethyl Aniline) from Group A Sr. No.8 @ 1500 MT/Month and Unit will manufacture the above-mentioned product 2-Ethyl Aniline (Ortho Ethyl Aniline) in the existing plant only without any additional infrastructure.</p> <p>The unit has converted partial EC to CCA. Also unit has not produced Isopropyl Aniline and 2, 6 Diisopropyl Aniline, 2- Methyl-6-Isopropyl Aniline and 4- Methyl 2,-6 Di-isopropyl Anilin, 2,6 - Diethyl Aniline (DEA) and 2- Ethyl Aniline (OEA) during October-2023 to March-2024.</p>	
B	Ortho Toluidine/para Toluidine/[Meta Toluidine Distillation (Physical Separation)	6000	NIL	<p>Presently the unit is not doing the Physical separation.</p> <p>The unit has converted partial EC to CCA. CCA for this group was not taken. CCA copy is attached as Annexure-A.</p>
2	Hydrogenated Products	6000	NIL	<p>Presently the unit is not doing the Hydrogenation process.</p> <p>The unit has converted partial EC to CCA. CCA for this group was not taken. CCA copy is attached as Annexure-A.</p>
	Ortho Toluidine			
	Chloro Aniline			
	DiChloro Aniline			
	TriChloroAniline			
	Ortho Phenylene Diamine			
	Phenylene Diamine			
	3,4 Diamino Diphenyl Ether			
	4,4 Diamino Diphenyl Ether			

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

3	Chlorination Products	60000	NIL	
	Monochloro Benzene			
	Ortho Dichlorobenzene			
	Para Dichloro Benzene			
Total			Average production of 725.60 MT/Month in the compliance period (October-2023 to March-2024).	Production is well within the limit. CCA converted to Ethylation & Propylation Group for 1500MT/ Month only.

Sr. No.	EC conditions	Compliance status
A.1 SPECIFIC CONDITIONS:		
1	Unit shall install CEMS [Continuous Emission Monitoring System] in line to CPCB directions to all SPCB vide letter no B-29016/04/05PC-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).	<p>Complied</p> <p>Height of the Stack is 80m and an online monitoring system is provided. Photos of CEMS are attached as per following:</p> 

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.



2 Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines LDAR Logbooks shall be maintained

Complied

Unit has implemented the LDAR program during plant operation as per CPCB guidelines. Unit will ensure the below listed conditions for LDAR program,

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

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.
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 - Pipings; (viii) Connector - Pipings; (ix) Open ended lines; (x) Sampling connections. Equipment and line sizes more than 1.875 cm or 3/4 inch are to be covered.
3. Monitoring Requirements and Repair Schedule: Following frequency of monitoring of leaks and schedule for repair of leaks shall be followed:

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	In the case of benzene, the leak shall be attended immediately for repair.

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	Compressor Seals	Quarterly	
	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	-
	<ol style="list-style-type: none"> 1. 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. 2. 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 		

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of pumps/compressors or three pumps and compressors, whichever is greater.

3. Pressure relief and blowdown systems should discharge to a vapor collection and recovery system or to flare.
4. Open-ended lines should be closed by a blind flange or purged.
5. Totally closed-loop should be used in all routine samples.
6. Low emission packing should be used for valves.
7. High integrity sealing materials should be used for flanges.
8. 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.



Photocopy of VOC detection device for Leak Detection

List of located devices attached as [Annexure-1](#)

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3 The National Ambient Air Quality Emission Standards issued by the Ministry vide GS. R. No 826 (E) dated 16th November 2009 shall be complied with

Complied

The unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) at upwind and downwind location by a MoEF approved laboratory (Unistar Environment & Research Labs Pvt. Ltd.). The results of the analysis are provided in the table. Copy of the analysis report has been attached as [Annexure-2](#)

Unistar NABL Certification No.: TC-7753

Location	Parameters (microgram/m ³)	Month					
		Oct 23	Nov 23	Dec 23	Jan 24	Feb 24	Mar 24
Main Gate	PM ₁₀	74.8	74.5	81.6	75.6	75.9	74.9
	PM _{2.5}	26.0	25.0	27.7	26.0	25.0	26.0
	SO ₂	18.0	19.1	18.1	22.2	19.2	18.0
	NO ₂	22.2	25.9	23.5	26.4	24.8	21.5
ETP	PM ₁₀	82	75.0	75.9	77.5	74.7	77.2
	PM _{2.5}	30.7	28.0	25.9	29.5	27.6	25.9
	SO ₂	22.1	20.3	22.3	22.3	20.0	19.8
	NO ₂	27.4	27.9	26.4	25.9	25.5	21.5
Plant Office	PM ₁₀	73	75.3	75.7	74.6	68.9	75.7
	PM _{2.5}	24.9	29.6	26.0	27.6	23.7	25.9
	SO ₂	21.8	24.8	22.3	21.0	22.0	17.2
	NO ₂	26.3	29.0	26.4	25.3	26.0	22.3

Note: N.D.- Not Detected, BDL - Below Detection Limit
All Parameters are well within limit.

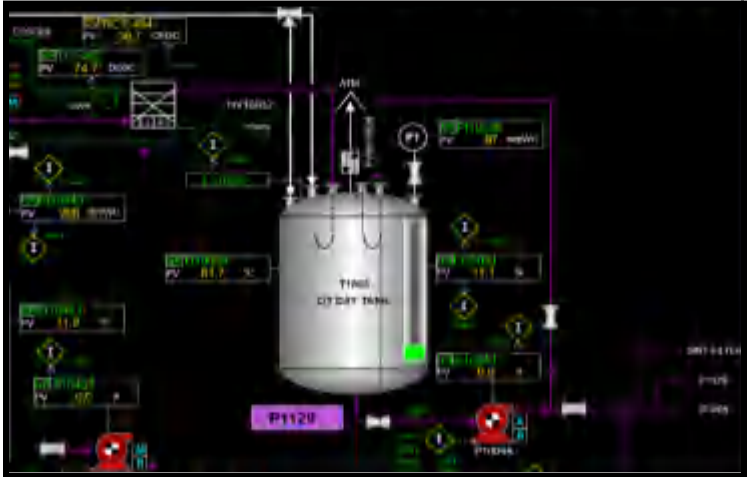
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4	<p>National Emission Standards for Organic Chemicals Manufacturing industry issued by the Ministry vide GS. R. No 608 (E) dated 21/07/2010 and amended from time to time shall be followed.</p>	<p>Complied</p> <p>National Emissions Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.</p> <p>All process vents are in a closed loop. The venting of process vapor is done through a flare system. We continuously monitor VOC by portable instruments in the plant area. We are also monitored by NABL/MOEF & CC / GPCB authorized parties (Unistar Environment & Research Labs Pvt. Ltd.) on a monthly basis for the same. Also the unit has applied for partial EC to CCA for phase-1.</p>
5	<p>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.</p>	<p>Complied</p> <p>Being a ZLD unit, no effluent is sent to the GIDC drain. The certificate(undertaking) for disconnection of drainage connection issued by concerned authority on 18/04/2016 is attached as Annexure-3.</p> <p>Unit has obtained EC as EC no: SEIAA/GUJ/EC/5(f)/547/2019 dated 10-04-2019. Unit has obtained CTO AWH 112729 dated 15-06-2021 for ZLD.</p>
6	<p>All measures shall be taken to avoid soil and groundwater contamination within premises.</p>	<p>Complied</p> <p>Unit has taken all necessary precautions and monitored the soil from time to time to eliminate soil & water contamination, all process areas are provided with proper flooring and catchment pit so that spills, if any, gets collected, transferred and properly treated in inhouse treatment systems. PCC flooring is provided for prevention of Soil contamination.</p>


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<p>7 Safety & Health:</p>	
<p>a PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U.</p>	<p>Complied</p> <p>Unit has also developed OHC with all medical facilities with a factory medical officer and Staff Nurse.</p>
<p>b PP shall obtain fire safety certificate/Fire No-Objection certificate (NOC) from the concerned authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.</p>	<p>Complied</p> <p>Unit has a Fire NOC for partially converted scope phase-1. Unit will ensure about the same in future for further amendment.</p> <p>Fire NOC copy is attached as Annexure-4</p>
<p>c Unit shall adopt functional operations/process automation system including emergency response to eliminate risk associated with the hazardous processes</p>	<p>Complied</p> <p>Unit has an automation system and the whole process was controlled by the DCS system.</p>

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		 <p style="text-align: center;">Photocopy of DCS System is attached for reference</p>
d	<p>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.</p>	<p>Complied</p> <p>We are ensuring to 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.</p>
e	<p>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</p>	<p>Complied</p> <p>We are ensuring to install an adequate fire hydrant system with foam trolley attachment within premises and separate storage of water.</p>
f	<p>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</p>	<p>Complied</p> <p>Separate Hazardous materials storage areas with dyke walls are provided. Photographs for your reference,</p>

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		 <p style="text-align: center;">Hazardous chemical stored at isolated places along with dyke wall</p>
g	PP shall take all the necessary steps for human safety within premises to ensure that no harm is caused to any worker/employee or labor within premises.	<p>Complied</p> <p>Unit has provided Proper PPE to the worker/employee and regular training is provided.</p>
h	Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.	<p>Complied</p> <p>Unit has installed flameproof electrical fittings in the plant premises.</p>
i	Unit shall provide a water sprinkler to the ammonia storage cylinder.	<p>Noted</p>
j	Unit shall never store drum/barrels/carboys of incompatible material/chemical together.	<p>Noted & Complied</p>
k	Unit shall provide effective isolation for the Process area and storage of hazardous chemicals.	<p>Complied</p> <p>Unit has a proper isolated tank farm area for the storage of the Hazardous chemical and also the dyke pit constructed to control spillage of any chemicals.</p>
<p>A. 2 WATER:</p>		

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8 Total water requirement for the project shall not exceed 3072 KLD Unit shall reuse 776 KLO of treated industrial effluent within premises Hence, fresh water requirement shall not exceed 2296 KLD and it shall be met through GIDC water supply only Prior permission from concerned authority for withdrawal of water shall be obtained

Complied

Total Water Requirement is not exceeding 3072 KL/Day and fresh water requirement is not exceeding 2296 KL/Day and recycled water is 776 KL/Day. Water consumption is under the prescribed limit.

Particular	Unit	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024
Fresh Water Consumptions	Total KL/Month	11892	12357	13087	11214	11574	14373
Recycled Water (RO Permeate + (MEE Condensate) Consumptions	Total KL/Month	2569.3	2372.9	2539.6	1976.5	2413.3	2600.7



The water consumption is within the prescribed limit.

In addition to this, the unit is also maintaining a logbook for the water

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

		consumption day-to-day basis. Photographs of water meter are provided above for reference.															
9	The industrial effluent generation from the project shall not exceed 724 KLD.	<p>Complied The Industrial effluent generation has not exceeded 724 KLD. The total average of last six month data has been given in the table below:</p> <table border="1" data-bbox="1199 386 1911 797"> <thead> <tr> <th rowspan="2">MONTH</th> <th>Industrial Effluent generation</th> </tr> <tr> <th>KL/Month</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>3249.8</td> </tr> <tr> <td>November 2023</td> <td>3171.4</td> </tr> <tr> <td>December 2023</td> <td>3202.21</td> </tr> <tr> <td>January 2024</td> <td>2518.5</td> </tr> <tr> <td>February 2024</td> <td>3014</td> </tr> <tr> <td>March 2024</td> <td>3177</td> </tr> </tbody> </table>	MONTH	Industrial Effluent generation	KL/Month	October 2023	3249.8	November 2023	3171.4	December 2023	3202.21	January 2024	2518.5	February 2024	3014	March 2024	3177
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10	<p>Management of Industrial effluent shall be as under:</p> <p>47 KLD effluent generated from process, washing and scrubber shall be in primary, secondary & tertiary ETP followed by RO-III. 33 KLD RO III permeate shall be reused within premises.</p> <p>677 KLD effluent generated from boiler, cooling tower and DM reject shall be treated in primary ETP followed by RO- 507 KLD RO-I permeate shall be reused within premises and 170 KLD RO-I reject shall be treated in RO-L 119 KLU RO-II permeate shall be reused within premises.</p> <p>14 KLD RO-III reject and 51 KLD RO-II reject shall be treated in MEE/ATFD 60 KLD MEE condensate shall be reused within premises.</p>	<p>Complied The unit is a Zero liquid discharge unit. The average daily generation of industrial effluent for the monitoring period is 5.45 m³/day. The effluent coming from various plants are collected and treated in ETP consists of :</p> <p>Primary Treatment: Stripper, 3 layer separation tank, Equalization tank, Flash Mixer (Coagulation), Flocculation Tank, Lamella Settler</p> <p>Secondary Treatment: Aeration Feed Tank, Aeration Tank, Secondary Clarifier</p> <p>Tertiary Treatment: RO, MEE & ATFD.</p> <p>And further treatment in RO followed by MEE & ATFD. The details of wastewater generation are given below,</p>															

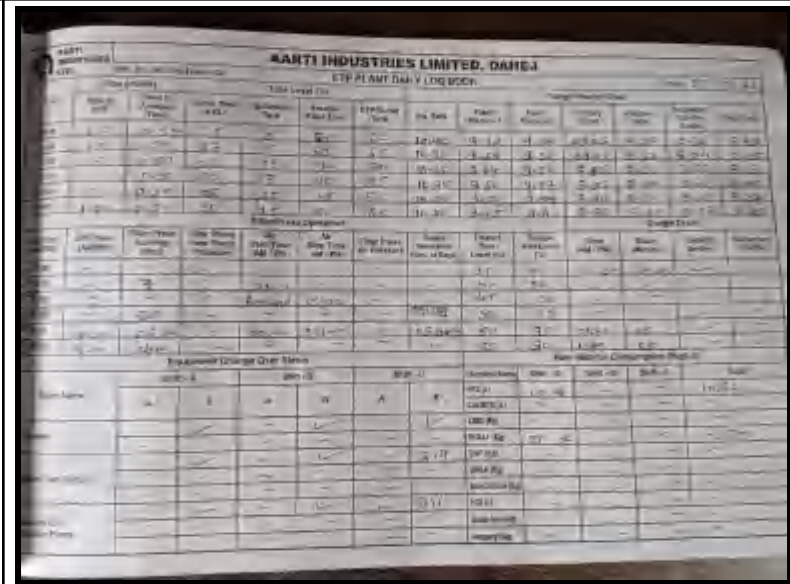
M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

	<table border="1"> <thead> <tr> <th>Particular</th> <th>Unit</th> <th>Oct 2023</th> <th>Nov 2023</th> <th>Dec 2023</th> <th>Jan 2024</th> <th>Feb 2024</th> <th>Mar 2024</th> </tr> </thead> <tbody> <tr> <td>Total Effluent Generation</td> <td>Total KL/Month</td> <td>3249.8</td> <td>3171.4</td> <td>3202.21</td> <td>2518.5</td> <td>3014</td> <td>3177</td> </tr> <tr> <td>Total Water Recycled to Cooling Tower</td> <td>Total KL/Month</td> <td>2569.3</td> <td>2372.9</td> <td>2539.6</td> <td>1976.5</td> <td>2413.3</td> <td>2600.7</td> </tr> </tbody> </table> <p align="center">Total Effluent Generation is combined of Utility & Process</p> <p>RO (After ETP) Capacity: 200 KLD SPRO: 200 KLD HP RO: 50 KLD Chemical RO: 60 KLD MEE Capacity: 60 KLD All the parameters are within the prescribed limit.</p>	Particular	Unit	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Total Effluent Generation	Total KL/Month	3249.8	3171.4	3202.21	2518.5	3014	3177	Total Water Recycled to Cooling Tower	Total KL/Month	2569.3	2372.9	2539.6	1976.5	2413.3	2600.7
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<p>11 Domestic wastewater generation shall not exceed 57 KL/day for proposed project and it shall be treated in STP. It shall not be disposed off into soak pil septic tank. Treated sewage shall be utilized for gardening & plantation purpose and cooling tower within premises after achieving on-land discharge norms prescribed by the GPCB</p>	<p>Complied</p> <table border="1"> <thead> <tr> <th rowspan="2">MONTH</th> <th>Domestic Waste Water generation</th> </tr> <tr> <th>KL/Month</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>198</td> </tr> <tr> <td>November 2023</td> <td>186</td> </tr> <tr> <td>December 2023</td> <td>194</td> </tr> <tr> <td>January 2024</td> <td>201</td> </tr> <tr> <td>February 2024</td> <td>179</td> </tr> <tr> <td>March 2024</td> <td>188</td> </tr> </tbody> </table>	MONTH	Domestic Waste Water generation	KL/Month	October 2023	198	November 2023	186	December 2023	194	January 2024	201	February 2024	179	March 2024	188									
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12	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>Noted and Complied</p> <p>The treated STP water is being used for green belt development / Cooling tower. During Monsoon the treated STP water shall be used for cooling tower make up. Also, the Unit has constructed a guard tank for storage of treated water.</p>
13	Unit shall provide a buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.	<p>Complied</p> <p>Unit has an adequate buffer with two water storage tanks each of 225 KL capacity for holding the treated wastewater during the rainy days.</p>
14	Unit shall provide ETP STP, ROS & MEE with adequate capacity	<p>Complied</p> <p>Primary Treatment: Stripper, 3 layer separation tank, Equalization tank, Flash Mixer (Coagulation), Flocculation Tank, Lamella Settler</p> <p>Secondary Treatment: Aeration Feed Tank, Aeration Tank, Secondary Clarifier</p> <p>Tertiary Treatment: RO, MEE & ATFD.</p> <p>And further treatment in RO followed by MEE & ATFD.</p> <p>RO (After ETP) Capacity: 200 KLD SPRO: 200 KLD HP RO: 50 KLD Chemical RO: 60 KLD MEE Capacity: 60 KLD</p>
15	The unit shall provide metering facility at the inlet and outlet of ETP STP ROS & MEE and maintain records for the same.	<p>Complied</p> <p>Unit has provided metering facilities at the inlet and outlet of ETP STP ROS & MEE and maintains records for the same.</p>
16	Proper logbooks of ETP, STP ROS & MEE reuse recycle of treated untreated effluent chemical consumption in effluent treatment quantity & quality of treated effluent power consumption etc shall be maintained and shall be furnished to the GPCB from time to time.	<p>Complied</p> <p>Unit has maintained proper records for ETP,MEE,RO and MEE logbooks.</p>

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Photocopy of ETP Logbook copy

A.3 AIR:

17 Unit shall not exceed fuel consumption for boilers. TFHs and D G Sets as mentioned below:

Sr. No	Source of Emission	Stack Height	Fuel Type	Fuel Consumption	Types of Pollution
1	Boiler-1 (Cap. 20TPH)	42 (Common chimney with Boller)	Coal	3333.3 kg/hr	PM: 150 mg/Nm3
2	TFH-1 (Cap. 20 Lac kCal/hr)		Natural Gas	187.5 kg/hr	SOx: 100 ppm &

Complied

The data of the last six months are given in the following table.

Natural Gas Consumption		
Month	Total Consumption (kg/Month)	Total Consumption Kg/Hr
October 2023	33870.89	34.10
November 2023	29257.50	30.50
December 2023	35515.59	35.80
January 2024	34990.62	35.30
February 2024	28877.14	31.10
March 2024	39392.00	39.70

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3	Boiler-II (Cap. 67 TPH)	80	Coal	310 MT/day	NOx: 50 ppm
4	DG Set Cap. 1000 kVA	30	Diesel	270 lit/ hr	
5	DG Set Cap. 1000 kVA	30	Diesel	270 lit/ hr	
6	DG Set Cap. 1500 kVA	30	Diesel	300 lit/ hr	
7	Ethylation Furnace Vent	42	Coal	150 kg/ hr	
Proposed Additional					
1	Boiler-III (Cap. 67 TPH)	80 (Common chimney with Boller-II)	Coal	12.917 MT/ hr	PM: 150 mg/Nm3 SOx: 100 ppm & NOx: 50 ppm
2	TFH-II (Cap. 40 Lac kCal/ hr)	35	Coal	1.4 MT/ hr	
3	DG Set Cap. 2500 kVA	30	Diesel	750 lit/ hr	
Total After Proposed Expansion					
1	Boiler-1 (Cap. 20TPH)	42 (Common chimney	Coal	3.3333 MT/ hr	PM: 150 mg/Nm3 SOx: 100

Month	Total Diesel Consumption (Ltr/Month)	Diesel Consumption (Ltr/Hr)
October 2023	190.99	0.26
November 2023	219.66	0.31
December 2023	200.34	0.27
January 2024	229.11	0.31
February 2024	248.12	0.36
March 2024	209.85	0.28

Month	Coal Consumption in 67 TPH & 14 TPH boiler (MT/Month)	Coal Consumption for boiler (MT/day)	Coal Consumption for boiler (MT/Hr)
October 2023	2586.00	83.40	3.48
November 2023	2568.50	85.60	3.57
December 2023	2684.50	86.60	3.61
January 2024	1993.60	64.30	2.68
February 2024	1898.38	65.50	2.73
March 2024	1954.10	63.00	2.63

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	2	TFH-1 (Cap. 20 Lac kCal/hr)	with Boller)	Natural Gas	0.1875 MT/ hr	ppm & NOx: 50 ppm
	3	Boiler-II (Cap. 67 TPH)	80 (Common chimney)	Coal	12.917 MT/ hr	
	4	Boiler-III (Cap. 67 TPH)		Coal	12.917 MT/ hr	
	5	TFH-II (Cap. 40 Lac kCal/hr)	35	Coal	1.4 MT/ hr	
	6	DG Set Cap. 1000 kVA	30	Diesel	270 lit/ hr	
	7	DG Set Cap. 1000 kVA	30	Diesel	270 lit/ hr	
	8	DG Set Cap. 1500 kVA	30	Diesel	300 lit/ hr	
	9	DG Set Cap. 2500 kVA	30	Diesel	750 lit/ hr	
	18	Unit shall provide adequate APCM with flue gas generation sources to achieve the norms prescribed by GPCB.				

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3 stage ESP and 80 m stack attached to boiler



Silo installed for fly ash storage & dusting free truck loading



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					<p>Automated Lime feeding system for controlling SOx commission</p>																
19	Unit shall provide adequate APCM with process gas generation sources as mentioned below.				<p>Complied</p> <p>Alkali scrubber has been provided for control of HCl gas emission from the Ethylation and Propylation process. Furnace has been converted into the above said scrubber through CCA No. AWH-112729 & dated 15/06/2021.</p> <p>HCL emissions in the Ethylation and Propylation process are monitored by an approved NABL / GPCB/MOEF&CC authorized party (Unistar Environment & Research Labs Pvt. Ltd.). The results are given below table. Copy attached in the following table. See Annexure-5</p> <p align="center"><u>Unistar NABL Certification No.: TC-7753</u></p> <table border="1" data-bbox="1150 902 1965 1260"> <thead> <tr> <th>Month</th> <th>HCl (mg/Nm3)</th> <th>GPCB Limit</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>BDL</td> <td rowspan="6">20 mg/Nm3</td> </tr> <tr> <td>November 2023</td> <td>BDL</td> </tr> <tr> <td>December 2023</td> <td>BDL</td> </tr> <tr> <td>January 2024</td> <td>BDL</td> </tr> <tr> <td>February 2024</td> <td>BDL</td> </tr> <tr> <td>March 2024</td> <td>BDL</td> </tr> </tbody> </table>	Month	HCl (mg/Nm3)	GPCB Limit	October 2023	BDL	20 mg/Nm3	November 2023	BDL	December 2023	BDL	January 2024	BDL	February 2024	BDL	March 2024	BDL
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Sr. No.	Sp. Source of Emission	Type of Emission	Stack Height	APCM																	
Existing																					
1	CaCO3 reactor	HCl	11	Falling film Absorber followed by Alkali Scrubber																	
2	Chlorinator	HCl	11	Falling film Absorber followed by Tail Gas Tower																	
3	Flare Stack (NG - 5 kg/ hr)	-	18	-																	
4	Scrubber to Hydrolysis Process-I	HCl	11	Caustic Scrubber																	
Proposed Additional																					
1	Scrubber to Hydrolysis Process-II	HCl	11	Caustic Scrubber																	

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	2	Flare Stack (NG - 10 kg/ hr)	-	18	-	
	Proposed Total					
	1	Scrubber Hydrolysis Process-I	to HCl	11	Caustic Scrubber	
	2	Scrubber Hydrolysis Process-II	to HCl	11	Caustic Scrubber	
	3	Flare Stack (NG - 10 kg/ hr)	-	18	-	
20	PP shall use approved fuels only as fuel in boilers					<p>Complied</p> <p>Unit has used approved fuels only in boilers.</p>
21	<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 (eg. Directors of Industrial Safety Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.</p> <ul style="list-style-type: none"> ● Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement. ● Air borne dust shall be controlled with water sprinklers at suitable locations in the plant ● A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission 					<p>Complied</p> <p>Unit has followed below guidelines to reduce the fugitive emissions in the work zone.</p> <p>➤ Internal roads have been concreted.</p>

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Water sprinklers have been provided at suitable locations in the plant.



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Green belt has been developed in and around the plant boundary and roads to mitigate fugitive & transport dust emission.



22 Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.

Complied
The fugitive emissions in the work zone environment are monitored by in house facilities as well as done by a third party consultant who has a MoEF&CC/GPCB/NABL approved laboratory. Results of fugitive emissions (Form-37) are attached as [Annexure-6](#)

Unistar NABL Certification No.: TC-7753

MONTH	Workplace Report / Form 37 (mg/m3)	Limit (As given in Schedule-II as per Factories Act 1948) (mg/m ³)

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		<table border="1"> <tr> <td>October 2023</td> <td>2.12</td> <td rowspan="6" style="text-align: center; vertical-align: middle;">10</td> </tr> <tr> <td>November 2023</td> <td>1.81</td> </tr> <tr> <td>December 2023</td> <td>2.05</td> </tr> <tr> <td>January 2024</td> <td>–</td> </tr> <tr> <td>February 2024</td> <td>2.35</td> </tr> <tr> <td>March 2024</td> <td>3.05</td> </tr> </table>	October 2023	2.12	10	November 2023	1.81	December 2023	2.05	January 2024	–	February 2024	2.35	March 2024	3.05
October 2023	2.12	10													
November 2023	1.81														
December 2023	2.05														
January 2024	–														
February 2024	2.35														
March 2024	3.05														
23	<p>For control of fugitive emission, VOCs, following steps shall be followed:</p> <p>Closed handling and charging system shall be provided for chemicals Reflux condenser shall be provided over Reactors/Vessels</p> <p>Pumps shall be provided with mechanical seals to prevent leakages</p> <p>Air borne dust at all transfers operations points shall be controlled either by spraying water or providing enclosures.</p>	<p>Complied.</p> <p>Closed handling and charging systems have been provided for chemicals. Reflux condenser has been provided over Reactors / Vessels. Pumps have been provided with mechanical seals to prevent leakages. The plant is operated by a DCS system. Unit has provided an enclosure system for air borne dust at all transfer operations.</p> <div style="display: flex; justify-content: space-around;">   </div>													

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		Closed loop system	Pump with mechanical seal
24	Regular monitoring of ground level concentration of PM10. PM2.5. SO2, NOx, HCl 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.	<p>Complied</p> <p>The unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) at upwind and downwind location by a MoEF approved laboratory (Unistar Environment & Research Labs Pvt. Ltd.).</p> <p>The details are mentioned in point No.3.</p> <p>The results of the analysis are provided in the table. Copy of the analysis report has been attached as Annexure-2</p>	

A.4 SOLID/HAZARDOUS WASTE:

25	All the hazardous/ solid waste management shall be taken care of as mentioned below.						Complied.	
	S r. N o	Type/N ame of Hazard ous waste	Source of genera tion	Categ ory and sched ule as per HW rules	Quantity (MT/Annum)			Disposal Method
					Existin g	Propose d	Total	
	1	ETP Sludge	From ETP	35.3		500	730	Collected Stored and Sent to GPCB Approved CHWIF/TSDf site for landfilling or will be sent for co-processing/ pre-Processing /
					482			

The unit has obtained permission from the GPCB CCA No. AWH-112729, Issued on 15/06/2021 valid till 19/05/2028 for collection, storage and disposal of hazardous waste. The solid waste is disposed to BEIL, Ankleshwar, process waste is disposed to RSPL for co processing & Aluminium Hydroxide (Process Waste) is being sent to Pradip Overseas (Rule-9) for utilization as raw material in their process through manifest system and GPS.

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Sl. No.	Waste Name	Source	Quantity (MT)	No. of Containers	No. of Containers	No. of Containers	Disposal Method	Limit		Actual Quantity (MT)	Actual Quantity (MT)	Actual Quantity (MT)	Actual Quantity (MT)	Actual Quantity (MT)	Actual Quantity (MT)	
								Rule-9	Pre-processing							
2	MEE Salt	From MEE	35.3			1573	1825	Collected Stored and Sent to GPCB Approved CHWIF/TSDf site for landfilling or will be sent for co-processing/incineration facility	482	2000	9	25543	6.2	—		
3	Used or Spent Oil	From Plant Operation	5.1	9	26	35	Collection, storage transportation, disposal by selling out to GPCB Registered recyclers/reprocessors/co-processing.	27.57	19.46	0	448.65	0	0	0.95	2.7	
4	Discarded Container (Drums / Carboys / bottles/ bags)	From Plant Operation	33.1	6.2	8.8	15	Collection, storage transportation, disposal by sending to GPCB authorized reprocessors/recyclers/CHWIF/ TSDf.	October 2023	9.68	21.76	0	343.77	0	0	0	0
								November 2023	11.22	0	0	670.3	53.55	0	0.84	0
								December 2023	11.66	17.99	0	638.82	0	0	0	3.1
								January 2024	22.23	16.44	0	501.32	0	0	0	0
February 2024	39.76	12.27	0	558.91	0	0	0.41	0								
March 2024	<p align="center">All the disposed quantity are within the prescribed limit</p> <p align="center">Unit is strictly complying with all the regulations mentioned in Hazardous waste rule, 2016 (Manifest-Form 10/Labeling-Form 8/ TREM Card- Form 9/Maintain Records- Form 3/ Annual return submission- Form 4 etc.</p>															

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5	Process Waste (Residue)	From Manufacturing of Products in Group A & B.	26.1	600	5460	6060	Collection, storage transportation, disposal to GPCB Approved CHWTSDF site for incineration or will be sent for co-processing/ pre-processing facility.
6	Spent Catalyst	From Process	26.5	0.12	-0.12	0	Collection, storage transportation, disposal by selling out to GPCB Registered recyclers
7	Aluminum Hydroxide (Al(OH) ₃)	From Manufacturing of Products in Group A	26.1	12168	69571	81739	Collection, storage Transportation, send to authorized end user industry having permission under Rule-9 of Hazardous & Other Waste rules 2016 or incineration/ co-processing/ pre-processing

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							facility.
8	Non Recyclable Plastic, PPE & Insulation waste/cotton waste	From Plant	33.1	20	20	40	Collection, storage transportation, disposal by selling to authorized recyclers/ reprocessors/ co-processing or GPCB Approved CHWTSDF Site.
9	Spent Carbon	From ETP & DM Plant	26.1	20	40	60	Collection, storage transportation, disposal to GPCB Approved CHWTSDF site for incineration or will be sent for co-processing/ pre-processing facility
10	Off Specification Product	From Manufacturing Process	26.1	12	20	32	Collection, storage transportation, disposal to GPCB Approved CHWTSDF site for incineration or will be sent


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							for co-processing facility.	
11	Spent resin	From DM Plant	35.2	0	20	20	Collection, storage Transportation, sent for co-processing/ Pre-processing/ TSDf/ CHWIF.	
12	HF	-	-	234	-234	0	Not Applicable	
13	H3BO3	-	-	243	-243	0	Not Applicable	
26	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>There are no any co-products/by-products produced by unit. Aluminum Hydroxide has been converted into hazardous waste through CCA number AWH-112729, dated 15/06/2021. Aluminum hydroxide is being sent to RSPL and Pradip Overseas (Rule-9) for utilization as raw material in their process through manifest system and AIS-140 based GPS tracking. Also we have intimated GPCB for the same. Sample copy attached as Annexure-7</p>
27	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.							<p>Complied</p> <p>Unit is exploring all the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of incinerable and land fillable wastes. Unit had made an agreement with M/s. Ambuja Cement for incinerable to co-processing waste. Attachment is attached as Annexure-8</p>
28	Management of fly ash shall be as per the Fly ash Notification 2009 & its amendment from time to time and it shall ensure 100% utilization of fly ash to be generated from the unit.							<p>Complied.</p> <p>We are sending 100 % Fly Ash to the end user for the purpose of brick manufacturing. Attachment is attached as Annexure-9</p>
29	STP sludge shall be collected and used as manure in gardening activity or sent to TSDf site for landfilling.							<p>Complied</p>


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		STP sludge is collected and used as manure in gardening activity or sent to TSDF site for landfilling.												
30	The project proponent has to obtain membership of TSDF site & CHVWIF before obtaining CTO of GPCB.	<p>Complied.</p> <p>Monthly sludge generation and disposal. Unit has valid membership of the TSDF(BEIL), SEPLL and RSPL. Copies of membership certificates are attached as Annexure-10</p>												
31	The unit shall submit the list of authorized end users of hazardous wastes along with MoU signed with them at least two months in advance prior to the commencement of production in the absence of potential buyers of these items the unit shall restrict the production of the respective items.	<p>Complied</p> <table border="1"> <thead> <tr> <th>Sr.no.</th> <th>List of end users</th> <th>MOU</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>M/s. Pradip Overseas</td> <td>Link</td> </tr> <tr> <td>2</td> <td>M/s. Sinhal Brothers</td> <td>Link</td> </tr> <tr> <td>3</td> <td>M/s. Odhav Enviro Private Ltd, Ahmedabad</td> <td>Link</td> </tr> </tbody> </table> <p>Unit has made MOU with the end user of hazardous waste along with MOU.</p>	Sr.no.	List of end users	MOU	1	M/s. Pradip Overseas	Link	2	M/s. Sinhal Brothers	Link	3	M/s. Odhav Enviro Private Ltd, Ahmedabad	Link
Sr.no.	List of end users	MOU												
1	M/s. Pradip Overseas	Link												
2	M/s. Sinhal Brothers	Link												
3	M/s. Odhav Enviro Private Ltd, Ahmedabad	Link												
A.5 OTHER:														
32	The project proponent shall carry out the activities [Land reformation for tree plantation with maintenance. Fencing & Security infrastructure development, Tree plantation, Maintenance of plantation, Drip Irrigation, Lake formation, Chen of water bodies, Installation of Dam Formation, Khet Falavadi formation, Water recharge borewell, Maintenance Panel, Dental care through mobile van, Medical camps with appropriate treatments for all nearby villagers, Collation with CHC/PHC for health infrastructure developments, Collaboration with nearby hospitals JIA. Serva Rural for SE development, Hygiene awareness for community through medical team, Swachh Bharat Abhiyan for community Vadadla, Vav, Kadodara proposed under CER and it shall be part of the Environment Management Plan (EMP) as MoEF&CCS OM no. F No 22-65/2017-IA III dated 30.09.2020. This shall be monitored and the monitoring report submitted to the regional office of MoEF&CC as a part of a half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.	<p>Complied</p> <p>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. The CER/CSR activities list have been below</p> <table border="1"> <thead> <tr> <th>Name of Associated NGO</th> <th>Nature of Work</th> <th>Amount (Rs)</th> </tr> </thead> <tbody> <tr> <td>Sewa Rural</td> <td>Donation 76 No of Uniform at Balvakita Students Distribute in</td> <td>0.42 lacs</td> </tr> </tbody> </table>	Name of Associated NGO	Nature of Work	Amount (Rs)	Sewa Rural	Donation 76 No of Uniform at Balvakita Students Distribute in	0.42 lacs						
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			Lakhigam Village School	
		Self	Greenbelt development opposite to Tatva Chintan Plant	80 lacs
		 <p>The CER activities details are in the following table Annexure-11</p>		
33	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. ENPRO Enviro Tech and Engineers Pvt. Ltd. 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.	Noted and will be Complied		
B. GENERAL CONDITIONS:				
B.1 CONSTRUCTION PHASE:				
34	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices	Noted and complied Unit has adopted best construction practices for expansion.		


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35	Project proponents 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.	<p>Noted and complied</p> <p>Unit has installed AAQM monitoring systems at different places for controlling fugitive emission.</p>  <p>AAQM monitoring station located near maingate.</p>
36	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	<p>Noted and complied</p> <p>Unit has provided all required sanitary and hygienic measures separately for expansion related project work.</p>

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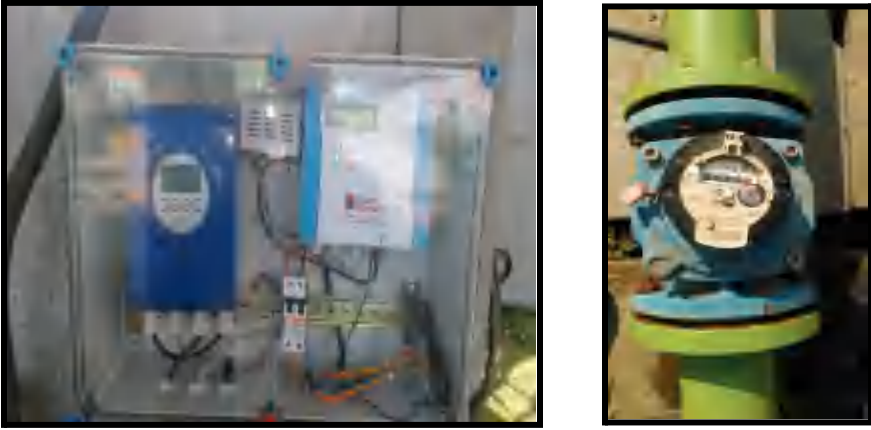
		 <p>Separate mobile toilets are provided for construction activity</p>
37	First Aid Box shall be made readily available in adequate quantity at all the times.	<p>Noted and complied</p> <p>First Aid Boxes are available and required Antidotes for the chemicals used in the unit will be made available in adequate quantity before commencement of expansions.</p>
38	The project proponent shall strictly comply with the Building and other Construction Workers (Regulation of Employment & Conditions of Service) Act 1995 and Gujarat rules made there under and their subsequent amendments. Local bye-laws of concern authority shall be compiled in letter and spirit.	<p>Noted and complied</p>
39	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.	<p>Noted and complied</p> <p>Noise report is attached as Annexure-12</p>
40	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.	<p>Noted and complied</p> <p>Unit has ensured the requirement of acoustic enclosure for operating the DG sets during existing operation.</p>

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		 <p style="text-align: center;">DG Sets along with acoustic enclosure</p>
41	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured	<p>Noted and complied</p> <p>Unit ensures safe disposal of waste water & municipal solid wastes which is generated from construction activity which is treated in the existing ZLD system within the plant.</p>
42	All topsoil excavated during construction activity shall be used in horticultural landscape development within the project site.	<p>Noted and complied</p> <p>Unit is utilizing topsoil and excavated soil for leveling purposes at sister concern unit. Also a unit having permission for the same. Please find sample copy attached as Annexure-13</p>
43	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 neighboring communities	<p>Noted and complied</p>
44	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	<p>Noted and complied</p> <p>We are sending 100 % Fly Ash to the end user for the purpose of brick manufacturing.</p>

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45	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the EP. Act 1986 and its subsequent amendments from time to time.	Noted and complied Fly Ash notification compliance report is attached as Annexure-14
46	Windbreakers 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.	Noted & Complied
47	No uncovered vehicles carrying construction material and waste shall be permitted."	Noted & Complied
48	"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"	Noted & Complied
49	Roads leading to or at construction site must be paved and blacktopped (ie metallic roads)	Noted & Complied
50	No excavation of soil shall be carried out without adequate dust mitigation measures in place.	Noted & Complied
51	Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing	Noted & Complied
52	Grinding and cutting of building materials in open areas shall be prohibited.	Noted & Complied
53	Construction material and waste should be stored only within earmarked areas and road side storage of construction material and waste shall be prohibited.	Noted & Complied
54	Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site (if applicable)	Noted & Complied

B.2 OPERATION PHASE:		
B.2.1 WATER:		
55	The water meter shall be installed and records of daily and monthly water consumption shall be maintained .	<p>Complied</p> <p>The water consumption is within the prescribed limit.</p> <p>In addition to this, the unit is also maintaining a logbook for the water consumption day-to-day basis. Photographs of the water meter are provided for reference.</p>
		
56	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.	Noted & Complied
B.2.2 AIR:		
57	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 & its 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.	<p>Noted.</p> <p>As of now the unit has not installed any spray dryer system as it is not the process requirement.</p>
58	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>Complied</p> <p>Unit has provided 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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59	Stacks/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission .	<p>Complied</p> <p>Stacks of adequate height as per prevailing norms are provided for the flue gas and process emissions. Stack heights are given as below:</p> <table border="1" data-bbox="1100 354 1791 841"> <thead> <tr> <th>Sr. No.</th> <th>Stack attached to</th> <th>Stack height (m)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Boiler-I (Capacity- 14 TPH)</td> <td rowspan="2">42 (Common)</td> </tr> <tr> <td>2</td> <td>Thermic Fluid Heater (Capacity- 20 Lac Kcal/Hr)</td> </tr> <tr> <td>3</td> <td>D G Set(Capacity- 1000 KVA)- 2 Nos.</td> <td>30</td> </tr> <tr> <td>4</td> <td>D G Set (Capacity- 1500 KVA)</td> <td>30</td> </tr> <tr> <td>5</td> <td>Boiler II (Capacity- 67 TPH)</td> <td>76</td> </tr> <tr> <td>6</td> <td>HCL Scrubber</td> <td>11</td> </tr> <tr> <td>7</td> <td>Reactor (NG consumption 5 kg/hr for flaring)</td> <td>18</td> </tr> </tbody> </table>	Sr. No.	Stack attached to	Stack height (m)	1	Boiler-I (Capacity- 14 TPH)	42 (Common)	2	Thermic Fluid Heater (Capacity- 20 Lac Kcal/Hr)	3	D G Set(Capacity- 1000 KVA)- 2 Nos.	30	4	D G Set (Capacity- 1500 KVA)	30	5	Boiler II (Capacity- 67 TPH)	76	6	HCL Scrubber	11	7	Reactor (NG consumption 5 kg/hr for flaring)	18
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60	Flue gas emission & Process gas emission (if any) shall conform to the standards prescribed by the GPCB/CPCB/MOEFCC At no time, emission level should go beyond the stipulated standards.	Complied																							
61	All the reactor vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	<p>Complied</p> <p>Flue gas emissions are monitored by an approved NABL / GPCB/MOEF&CC authorized party (Unistar Environment & Research Labs Pvt. Ltd.-(Unistar NABL Certification No.: TC-7753)). The results are attached in the following table. Results for the same are attached as Annexure-5 & Annexure-15</p>																							
B.2.3 HAZARDOUS/SOLID WASTE:																									
62	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.	<p>Complied</p> <p>Unit is strictly complying with all the regulations mentioned in Hazardous waste rule, 2016 (Manifest-Form 10/Labeling-Form 8/ TREM Card- Form 9/Maintain Records- Form 3/ Annual return submission- Form 4 etc. If required in future we will do amendments from time to time.</p>																							


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63	Hazardous wastes shall be driest, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	Complied Unit has provided a hazardous waste storage area with a pucca bottom and leachate collection facility.
64	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF (Whichever is applicable)	Complied Unit has received membership from BEIL & SEPPL. Membership certificate copy from CHWIF and TSDF of the same are attached in Annexure-10
65	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 is ensuring 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. Unit is Following the AIS 140 based GPS tracking System for all the Hazardous Waste Vehicle.
66	The design of the Trucks/tankers shall be such that there is no spillage during transportation	Complied Unit is ensuring to deploy trucks/Tankers suitable for hazardous waste so that there will not be any leakage / spillage during transportation.
67	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	Complied Unit is putting all efforts to pre-treat / process the hazardous waste before disposal to TSDF / CHWIF.
68	Management of fly ash (If any) 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.	Noted and complied Fly Ash notification compliance report is attached as Annexure-14
B.2.4 SAFETY:		
69	The occupier/manager shall strictly comply with the provisions under the Factories Act 1948 and the Gujarat Factories Rules, 1963.	Complied The occupier has strictly complied with the provisions under the Factories Act 1948 and Gujarat Factories Rules 1963.
70	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	Complied The project management strictly complies with the provisions made in the factories Act, 1948 as well as Manufacture, Storage and Impact of Hazardous

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	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	Chemical Rules, 1989 as amended in 2000 for handling of hazardous chemicals. Certificate issued from PESO is surrendered as attached as Annexure-16 On-site and Off-site Disaster Management Plans have been prepared and implemented and Same has been submitted to DISH and attached as Annexure-17
71	Main entry and exit shall be separate and clearly marked in the facility.	Complied Main entry & Exit were separated and have been constructed marked clearly.
72	Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender! emergency vehicle around the premises	Complied Sufficient peripheral open passage is provided in the margin area for free movement of fire tender/ emergency vehicle around the premises.
73	Storage of flammable chemicals shall be sufficiently away from the production area	Complied Unit has been constructed as per prevailing rules of government authorities for storage of flammable chemicals.
74	Sufficient number of fire extinguishers shall be provided near the plant and storage area	Complied Unit has provided a total 220 numbers of fire extinguishers near the plant and storage area. The fire extinguishers are installed in all the process plants such as ethylation & propylation section, Warehouse Plant as well as in ETP, OHC, Admin, Canteen etc. It is installed on every floor in the premises.
75	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic hazardous chemicals	Complied Unit is ensuring to take necessary precautions as per the prevailing rules of government authorities for storage and handling of toxic and hazardous chemicals
76	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	Complied Unit will ensure to maintain optimum quantities of toxic / hazardous chemicals. All necessary permissions are obtained in this regard before commencing the expansion activities.
77	The project management shall ensure to comply with all the environmental protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	Complied

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		The unit has adhered to the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment Report. The letter submitted to DISH for Risk Assessment Report, Safety Audit Report, QRA study. The same has been attached in The unit has implemented all preventive and mitigation measures suggested in the Risk Assessment Report.
78	Only flameproof electrical fittings shall be provided in the plant premises	Complied Unit has installed flameproof electrical fittings in the plant premises.
79	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks/containers instead of one single large capacity tank/container.	Complied Separate Hazardous materials storage areas with dyke walls are provided.
o	As the storage tanks shall be lifted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals	Complied Unit has installed necessary engineering controls to avoid leakages and hazardous chemical storage tanks have been installed inside a Bund/ dyke wall. 
81	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs	Complied Unit has taken all necessary measures to minimize the human exposure to hazardous chemicals by closed loop pumping / vacuum transfer.

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82	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.</p> <p>Unit has also developed OHC with all medical facilities with factory medical officers and staff. The Unit has tie up with Sunshine Global Hospital, Healing Multispeciality Hospital and Baroda Heart Hospital for immediate medical attention in the case of emergency at the Bharuch District.</p> <p>Attachment is attached as Annexure-18</p>
83	Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.	<p>Complied</p> <p>Unit has maintained around 50 types of Personal Protective Equipment (PPEs) and provided the same to workers. Unit has encouraged and ensured that PPE's are used by workers as per the requirement for a particular job role.</p> <p>PPEs- Helmet, Goggles, Safety Shoes, Full body safety suit, Double anchored safety harness, Cartridge mask, antistatic hand gloves, bubble hood etc.</p>
84	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	<p>Complied</p> <p>10 Numbers of First Aid Box are available and required Antidotes (Methylene Blue, Dipotherene, etc) for the chemicals used in the unit are available in OHC at site.</p>
85	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	<p>Complied</p> <p>Training is given to all employees on safety and health aspects of chemical handling. Pre-employment and routine periodical medical examinations for all employees are done on a regular basis. Training to all employees on handling chemicals is imparted regularly.</p>
86	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.	<p>Complied</p> <p>Occupational health surveillance of the workers is carried out on a half yearly basis and records are maintained as per the factory act.</p> <p>Following check up has been carried out in periodical medical checkup.</p> <ul style="list-style-type: none"> - General checkup (height, weight, pulse, BP etc) - Blood test (RBC, WBS, hemoglobin, platelets, blood group, differential count, G6PD etc) - Urine test (physical, chemical and microbial examination etc)

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		<ul style="list-style-type: none"> - Vision test - Pulmonary function test - Audiometry - ECG - met Hb for specific workers
87	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	<p>Complied</p> <p>We ensure that the Transportation of hazardous chemicals is being done as per the provisions of the Motor Vehicle Act and Rules.</p>
88	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>
89	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 Factory License No.24007 and it is attached as Annexure-19</p>
B.2.5 NOISE:		
90	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.	<p>Complied</p> <p>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. Unit is monitoring noise level month wise in the operation phase.</p>
B.2.6 CLEANER PRODUCTION AND WASTE MINIMISATION:		
91	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>Complied</p> <p>Cleaner Production Assessment study has been carried out by an approved institute of Pacific School of Engineering, Surat Approved by AICTE, New Delhi & Affiliated to GTU, Ahmedabad.</p>
92	The company shall undertake various waste minimization measures such as	<p>Complied</p> <p>The Unit has implemented waste minimization measures as mentioned below but not limiting to:</p>

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		<p>Unit has taken all the possible action for the control of quantities of active ingredients to minimize waste.</p> <p>Unit has taken all the possible action for reuse of by-products from the process as raw materials or as raw materials substitutes.</p> <p>Unit has installed automated and close filling to minimize spillages.</p> <p>Closed feed system into batch reactors is in practice.</p> <p>Venting equipment through a vapor recovery system is in practice.</p> <p>Unit uses high pressure hoses for clearing to reduce wastewater generation.</p> <p>Unit is doing Recycling of washes to subsequent batches.</p> <p>Unit is doing Recycling of steam condensate.</p> <p>Unit is doing Sweeping/mopping the floor instead of floor washing to avoid effluent generation.</p> <p>Unit has done Regular preventive maintenance for avoiding leakages, spillages etc.</p>
a.	Metering and control of quantities of active ingredients to minimize waste	Complied
b	Reuse of by-products from the process as raw materials or as raw materials substitutes	Complied
c	Use of automated and close filling to minimize spillage	Complied
d	Use of close feed system into batch reactors	Complied
e	Venting equipment through vapor recovery system	Complied
f	Use of high pressure hoses for cleaning to reduce wastewater generation.	Complied
g	Recycling of washes to subsequent batches	Complied
h	Recycling of steam condensate	Complied

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i	Sweeping/mopping of floor instead of floor washing to avoid effluent generation	Complied
j	Regular preventive maintenance for avoiding leakage, spillage etc	Complied
B.2.7 GREEN BELT AND OTHER PLANTATION:		
93	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 Unit has developed a greenbelt within the premises as per the guidelines of CPCB. Total area of plot :- 50148 m2 Greenbelt within Plant Premises :- 12890 m2 , Greenbelt at common plot of Dahej SEZ II & opposite to tatva chintan :- 3659 m2 Total Green Belt :- 16549 m2
94	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.
95	The PP shall develop green belt [10994 4 m2 (21.92%) inside plant premises 1896 m2 (3 78%) at boundary side and 3659 m2 (7.3%) in Common Plot in Dahej SEZ-II Total: 16549 Sq.m) ie 33% of total plot area) as per the undertaking 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.	Complied
B.3 OTHER CONDITION:		
96	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	Complied The projects is covered under category 5(f) undergo the safety and environment audit regularly as per the standards laid down by the GPCB and CPCB
97	PP shall carry out the safety audit and Risk Assessment Report as per the prevailing guidelines of safety.	Noted & Complied
98	Management of Fly Ash shall be as per the Fly Ash Notification 2009 & is amendment from time to time and I shall be ensured that there is 100% utilization	Complied

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	of fly ash to be generated from the unit.	Fly Ash notification compliance report is attached as Annexure-14			
99	EMP should invariably include provisions for environmental Monitoring and measures for noise pollution control measures	Complied			
100	In EMP proponent should separately indicate majors of occupational health, fire and safety measures	Complied			
101	Prior EC is granted is subject to the proponent receiving all statutory permission/clearances/certificates and membership of respective agencies/authorities whichever applicable. Proponent shall inform progress from time to time in six monthly compliance reports to MOEFCC/SEIAA/SEAC/GPCB failing to which this provisional EC will stand withdrawn.	Complied			
102	Wherever waste water or chemical water to be collected by tankers and transported to CETA 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	Complied			
103	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.	Noted			
104	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.	Complied			
		MONTH	SS Scrap (MT)	MS Scrap (MT)	Wooden (MT)
		October 2023	0	0	0
		November 2023	0	10.09	0
		December 2023	0	6.21	2.89
		January 2024	0	10.16	4.89
		February 2024	0	0	2.28
		March 2024	0	11.00	6.00

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105	All chemical pharma industries etc. should ensure predictive and preventive maintenance of factory boilers and reactive shows to avoid incidents of fire and safety hazards.	Complied Unit ensures periodic predictive and predictive maintenance of boiler installed at site. Unit is scheduled in the SAP system for preventive maintenance of critical assets in the plant.
106	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.	Complied 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. Attached in Point -3
107	In LDAR preventive and predictive maintenance plan.	Complied 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. We have different Instruments for the measurement of the VOC detection at the plant of different Places and all detectors are set as per the desired set point all are connected to the Hooter & DCS System.
108	In LDAR leakage component, source of equipment leak, detention method should be given in table form.	Complied
109	In storage component should be shown separately in terms whether inflammable toxic corrosive, reactive etc	Complied
110	In case of Fly Ash generation its management and disposal should be as per Government of India Notification and 100% utilization should be ensured.	Complied
111	Project proponent shall install all environment management systems as per the CPCB/GPCB directives regarding effluent discharge and air emission in working condition.	Noted
112	Project proponent shall display the copy of Environment Clearance at the site prominently	Noted

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113	Project proponent shall prepare and follow regular and preventive maintenance plans. The copy of the same shall be submitted to SEIAA.	Noted
114	Project Proponent will have to display the safety procedure in the working area.	Complied
115	The project proponent shall obtain all required permissions for safety, health and fire from competent authorities PESO/Fire Authority etc. and intimate SEIAA.	Complied Unit has a Fire NOC for partially converted scope phase-1. Unit will ensure about the same in future for further amendment. Fire NOC copy is attached as Annexure-4
116	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.	Complied Unit has valid membership of the TSDF(BEIL), SEPPL and RSPL. Copies of membership certificates are attached as Annexure-10
117	Extra care will be taken by PP to avoid any accidental blast in boiler, reactor or any machinery in the plant	Complied Unit will take extra care to avoid any accidental blast in the boiler,reactor or any machinery in the plant.
118	Environment monitoring, training and disaster management plan should be undertaken and complied at regular intervals.	Complied
119	Integrated Regional Office of MoEF&CC Gandhinagar and GPCB will monitor all environment safety & health norms as per the prevailing rules.	Complied Unit has provided an Online Continuous Monitoring System (OCEMS) for emissions and the same has been connected to GPCB & CPCB Server.
120	The PP has to maintain the log sheets/ registers/ manifest/ gate pass for discharge through tankers and SCADA system for pipeline discharge for the waste water generation and is 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.	Noted
121	Unit shall comply with all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&CC vide no F No 22-34/2018-1A III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no XX).	Complied The compliance report for same is Attached as Annexure-20
122	The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance with the MoEF&CC's Office Memorandum No	Complied

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	<p>No.22-65/2017-1A. Ili dated 01/05/2018 to carry out the activities under CER in affected arca around the project. The entire activities proposed under CER shall be monitored and the 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.</p>	<p>Unit has allocated a separate fund for Corporate Environment Responsibility (CER) activities to carry out activities.</p> <table border="1" data-bbox="1129 305 1965 646"> <thead> <tr> <th data-bbox="1129 305 1356 410">Name of Associated NGO</th> <th data-bbox="1356 305 1782 410">Nature of Work</th> <th data-bbox="1782 305 1965 410">Amount (Rs)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1129 410 1356 545">Sewa Rural</td> <td data-bbox="1356 410 1782 545">Donation 76 No of Uniform at Balvakita Students Distribute in Lakhigam Village School</td> <td data-bbox="1782 410 1965 545">0.42 lacs</td> </tr> <tr> <td data-bbox="1129 545 1356 646">Self</td> <td data-bbox="1356 545 1782 646">Greenbelt development opposite to Tatva Chintan Plant</td> <td data-bbox="1782 545 1965 646">80 lacs</td> </tr> </tbody> </table>	Name of Associated NGO	Nature of Work	Amount (Rs)	Sewa Rural	Donation 76 No of Uniform at Balvakita Students Distribute in Lakhigam Village School	0.42 lacs	Self	Greenbelt development opposite to Tatva Chintan Plant	80 lacs
Name of Associated NGO	Nature of Work	Amount (Rs)									
Sewa Rural	Donation 76 No of Uniform at Balvakita Students Distribute in Lakhigam Village School	0.42 lacs									
Self	Greenbelt development opposite to Tatva Chintan Plant	80 lacs									
123	<p>Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the Ls activities of the project to conserve fresh water as well as to recharge ground water Before recharging the surface run off pre-treatment must be done to remove suspended matter.</p>	<p>Complied</p>									
124	<p>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>	<p>Complied Unit has a proper rainwater harvesting system nearby the admin and boiler area.</p>									
125	<p>Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided</p>	<p>Complied Solar energy has been incorporated for illumination of common areas and lighting which is available on OHC and DG area.</p>									
126	<p>The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.</p>	<p>Complied</p>									
127	<p>All the commitments/undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to</p>	<p>Complied</p>									
128	<p>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</p>	<p>Complied</p>									

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	for the environmental protection and management.	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.
129	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 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
130	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB) State Government and any statutory authority.	Complied Unit has strictly adhered to the commitments/ undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management.
131	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.	Noted
132	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/impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.
133	Leakages from pipes, sumps shat be minimal and if occurs, shall be arrested promptly	Complied Leakages from pipes, sumps are minimal and if occurs, it is arrested promptly.
134	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.	Complied No further expansion or modifications in the plant likely to cause environmental impacts is carried out without obtaining prior Environment Clearance from the concerned authority.
135	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,	Complied

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	Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules	
136	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.	Complied
137	The project management shall ensure that the 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 prepared by project proponent.	Noted and Complied
138	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well GRI along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not for any other purpose.	Complied
139	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA the couples 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.	Noted. Due to oversight, the advertisement of EC was not published within the stipulated time period. We deeply regret not publishing the advertisement of EC within the stipulated time period.
140	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 soft copies to the regulatory authorities concerned, on 1st June and 1st December of each calendar year.	Complied. Last compliance report was submitted on 28.11.2023 for the period of April-2023 to September-2023 to SPCB & MoEF&CC. Copy of the same is attached herewith as Annexure-17
141	Concealing factual data or submission of false fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act,1986.	Noted
142	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Complied Unit will strictly adhere to the stipulations made by the Gujarat Pollution Control Board.

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143	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted
144	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary	Noted
145	The project authorities shall inform the GPCB. Regional Office of McEF 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.	Complied
146	This environmental clearance is valid for Ten years from the date of issue	Noted
147	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
148	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 canceled.	Noted
B.4 COMPLIANCE OF ENVIRONMENT CLEARANCE/REPORTING/ADMINISTRATION/APPEAL:		
149	Project proponent shall inform all the concerned authorities including Municipal Corporation and District Collector and shall also give wide publicity through advertisement Environment Clearance order accorded minimum two local newspapers within seven days, about the Environmental Clearance order accorded.	Noted
150	Project proponent shall appoint a key person to the organization who shall be responsible for compliance of adhoc conditions 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..	Complied
151	Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC GPCB and Nodal Department of the Government.	Complied. Last compliance report was submitted on 28.11.2023 for the period of April-2023 to September-2023 to SPCB & MoEF&CC.
152	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	Noted

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153	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.	Noted
154	Any person including the project proponent affected by this Environment Clearance order may file an 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 prescribed under section 16 of National Green Tribunal Act 2010.	Noted
155	All complaints and public grievances or representations may be addressed to SEIAA/SEAC in the email addresses (a) mase aagi@gmail com& (b) seacgujarat@gmail.com.	Noted

**Amended EC vide File No. SEIAA/GUJ/EC/5(f)/255/2024 dated 29/02/2024 condition as per EC 2024.
Additional conditions under Environment Clearance for period October-2023 to March-2024**

1 Total water requirement for the project shall not exceed **3067 KLD**. Unit shall reuse 776 KLD of treated industrial effluent within premises. Hence fresh water requirement shall not exceed 2291 KLD and it shall be met through GIDC water supply only.

Complied.

The Unit has got water supply permission from Dahej GIDC vide letter no. GIDC/BRH/WS/730. Water consumption is under the prescribed limit.

Particular	Unit	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024
Fresh Water Consumptions	Total KL/Month	11892	12357	13087	11214	11574	14373
Recycled Water (RO Permeate + MEE Condensate) Consumptions	Total KL/Month	2569.3	2372.9	2539.6	1976.5	2413.3	2600.7

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2	Project proponent shall obtain prior permission from concerned authority for drawl of water.						The Unit has got water supply permission from Dahej GIDC vide letter no. GIDC/BRH/WS/730. The copy of the permission letter of GIDC is attached as Annexure-21
i	Condition No. 8 shall now be read as under: Total water requirement for the proposed project shall not exceed 3067 KLD. Unit shall reuse 776 KLD of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 2291 KLD and it shall be met through GIDC water supply only. Prior permission from concerned authority for withdrawal of water shall be obtained.						Compiled.
ii	Condition No. 17 shall now be read as under:						Complied The data of the last six months are given in the following table.
	Sr. No	Source of Emission	Stack Height	Fuel Type	Fuel Consumption	Types of Pollution	APCM
1	Boiler-1 (Cap. 20TPH)	42 (Common chimney with Boller)	Coal	3.333 MT/ hr	PM: 150 mg/Nm3	ESP + Dry Scrubber (Lime dosing along with Coal)	
2	TFH (Cap. 20 Lac kCal/ hr)	80 (Common Chimney)	Natural Gas	0.1875 MT/ hr	SOx: 100 ppm &	ESP + Dry Scrubber (Lime dosing along with Coal)	
3	Boiler-II (Cap. 67 TPH)	Coal	12.917 MT/hr	NOx: 50 ppm	ESP + Dry Scrubber (Lime dosing along with Coal)		
4	Boiler-III (Cap. 67 TPH)	Coal	12.917 MT/hr		ESP + Dry Scrubber (Lime dosing along with Coal)		
5	TFH (Cap: 40 Lac	35	Coal or Natur	1.4 MT/hr or 0.5625 MT/hr		Bag Filter + Dry Scrubber (Lime dosing along with	
Natural Gas Consumption							
Month		Total Consumption (kg/Month)		Total Consumption Kg/Hr			
October 2023		33870.89		34.10			
November 2023		29257.50		30.50			
December 2023		35515.59		35.80			
January 2024		34990.62		35.30			
February 2024		28877.14		31.10			
March 2024		39392.00		39.70			
Month		Total Diesel Consumption (Ltr/Month)		Diesel Consumption (Ltr/Hr)			

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

	kCal/hr)		al Gas		Coal)
6	DG Set Cap. 1000 kVA	30	Diese	270 lit/ hr	=
7	DG Set Cap. 1000 kVA	30	Diese	270 lit/ hr	=
8	DG Set Cap. 1500 kVA	30	Diese	300 lit/ hr	=
9	DG Set Cap. 1500 kVA	30	Diese	750 lit/ hr	=
<p>Note:</p> <p>1. For 40 Lakh kcal/Hr thermic fluid heater if natural gas use only then NOx burner and adequate stack height will be provided.</p> <p>2. It is to be noted that steam shall be supplied from sister concern unit M/s. Aarti industries Limited (Unit-II), Dahej, SEZ-II (PCB ID# 58381) i.e., 70 TPH and Aarti industries Limited (Unit-III), Dahej, SEZ-II (PCB ID# 62935) i.e.59 TPH. Condensate shall be sent back to the same unit.</p>					

October 2023	190.99	0.26
November 2023	219.66	0.31
December 2023	200.34	0.27
January 2024	229.11	0.31
February 2024	248.12	0.36
March 2024	209.85	0.28

Month	Coal Consumption in 67 TPH & 14 TPH boiler (MT/Month)	Coal Consumption for boiler (MT/day)	Coal Consumption for boiler (MT/Hr)
October 2023	2586.00	83.40	3.48
November 2023	2568.50	85.60	3.57
December 2023	2684.50	86.60	3.61
January 2024	1993.60	64.30	2.68
February 2024	1898.38	65.50	2.73
March 2024	1954.10	63.00	2.63

M/s. Aarti Industries Limited, Plot no. Z/103/H, GIDC Estate, Dahej SEZ-II, Dist.Bharuch.

ii i	Condition No. 17 shall now be read as under:				<p>Complied</p> <p>Alkali scrubber has been provided for control of HCl gas emission from the Ethylation and Propylation process. Furnace has been converted into the above said scrubber through CCA No. AWH-112729 & dated 15/06/2021.</p> <p>HCL emissions in the Ethylation and Propylation process are monitored by an approved NABL / GPCB/MOEF&CC authorized party (Unistar Environment & Research Labs Pvt. Ltd.). The results are given below table. Copy attached in the following table. See Annexure-5</p> <p align="center"><u>Unistar NABL Certification No.: TC-7753</u></p> <table border="1"> <thead> <tr> <th>Month</th> <th>HCl (mg/Nm³)</th> <th>GPCB Limits</th> </tr> </thead> <tbody> <tr> <td>October 2023</td> <td>BDL</td> <td rowspan="6">20 mg/Nm³</td> </tr> <tr> <td>November 2023</td> <td>BDL</td> </tr> <tr> <td>December 2023</td> <td>BDL</td> </tr> <tr> <td>January 2024</td> <td>BDL</td> </tr> <tr> <td>February 2024</td> <td>BDL</td> </tr> <tr> <td>March 2024</td> <td>BDL</td> </tr> </tbody> </table>	Month	HCl (mg/Nm ³)	GPCB Limits	October 2023	BDL	20 mg/Nm ³	November 2023	BDL	December 2023	BDL	January 2024	BDL	February 2024	BDL	March 2024	BDL
	Month	HCl (mg/Nm ³)	GPCB Limits																		
	October 2023	BDL	20 mg/Nm ³																		
November 2023	BDL																				
December 2023	BDL																				
January 2024	BDL																				
February 2024	BDL																				
March 2024	BDL																				
Sr. No.	Source of Emission	Type of Emission	Stack Vent/ Height	APCM																	
1	Scrubber to Hydrolysis Process - Plant I & II	HCl	11	Caustic Scrubber																	
2	Flare Stack (Reactor NG consumption 10 kg/hr for flaring)	-	18	-																	

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/5(0/263012022 on dated 07/11/2022 shall remain unchanged.



I INDUSTRIES LTD, DAHE

INSTRUMENTATION DEPARTMENT

LIST OF GAS DETECTORS

SR NO	TAG	SERIAL NUMBER	TYPE OF INSTRUMENT	LOCATION	MAKE	MODEL	INST RANGE	CALIBRATION RANGE
1	DHJ1-ETD001	02100D3319/01	Ethylene gas detector	Hydrolysis reactor	Tritech	FL-XT	0-100% LEL	0-100% LEL
2	DHJ1-ETD002	02100D3320/01	Ethylene gas detector	Catalyst reactor bottom	Tritech	FL-XT	0-100% LEL	0-100% LEL
3	DHJ1-ETD003	02100D3150/03	Ethylene gas detector	Ethylene gas compressor	Tritech	FL-XT	0-100% LEL	0-100% LEL
4	DHJ1-ETD004	02100D3150/01	Ethylene gas detector	Buss section 2nd floor	Tritech	FL-XT	0-100% LEL	0-100% LEL
5	DHJ1-ETD005	02100N3150/02	Ethylene gas detector	Buss section 1st floor	Tritech	FL-XT	0-100% LEL	0-100% LEL
6	DHJ1-ETD006	02100D4063/01	Ethylene gas detector	Ethylene gas compressor	Tritech	FL-XT	0-100% LEL	0-100% LEL
7	DHJ1-ETD007	02100D4063/02	Ethylene gas detector	Ethylene gas compressor	Tritech	FL-XT	0-100% LEL	0-100% LEL
8	DHJ1-ETD008	02100D5844	Ethylene gas detector	2T-0205 Top Vent	Tritech	FL-XT	0-100% LEL	0-100% LEL
9	DHJ1-ETD009	D6002/01	Ethylene gas detector	Near P-2204 Reaction Pump	Tritech	FL-XT	0-100% LEL	0-100% LEL
10	DHJ1-NGD001	02100D3319/02	Natural gas detector	Boiler thermopack	Tritech	FL-XT	0-100% LEL	0-100% LEL
11	DHJ1-NGD002	02100D3320/03	Natural gas detector	Boiler thermopack	Tritech	FL-XT	0-100% LEL	0-100% LEL
12	DHJ1-NGD003	D3320/02	Natural gas detector	Flare area	Tritech	FL-XT	0-100% LEL	0-100% LEL
13	DHJ1-2GD-0203	48050D6969/01	VOC Meter	VOC Meter 1st Floor MEA	Tritech	2X-TX	0-100% LEL	0-100% LEL
14	DHJ1-2GD-0204	728/C/23	VOC Meter	OT P-1045	Tritech	2X-TX	0-100% LEL	0-100% LEL
15	DHJ1-2GD-0205	31/A/23	VOC Meter	T-1075	Tritech	2X-TX	0-100% LEL	0-100% LEL
16	DHJ1-2GD-0206	710/C/23	VOC Meter	T-1044	Tritech	2X-TX	0-100% LEL	0-100% LEL
17	DHJ1-2GD-0207	714/C/23	VOC Meter	T-1050	Tritech	2X-TX	0-100% LEL	0-100% LEL
18	DHJ1-1GD-0202	48050D6969/02	VOC Meter	VOC Meter Tanker Unloading Area	Tritech	2X-TX	0-100% LEL	0-100% LEL
19	2GD-0202	D6968	Ethylene gas detector	BUSS VENT CONDENSOR	Tritech	FL-Xt	0-100 % LEL	0 TO 100 %
20	Spare	02100D7274/01	Ethylene Gas Detector/TX		Tritech	FL-XT	0-100% LEL	0-100% LEL
21	Spare	02100D7274/02	Ethylene Gas Detector/TX		Tritech	FL-XT	0-100% LEL	0-100% LEL
22	DHJ1-GMS004		Multichannel Gas Monitor	DCS control room	Tritech	TM-800	0-100% LEL	0-100% LEL
23	DHJ1-GMS001	02100D3318	Multichannel Gas Monitor	Boiler control room	Tritech	GAZCHAMP-EX	0-100% LEL	0-100% LEL
24	DHJ1-GMS002	02100D3144	Multichannel Gas Monitor	DCS control room	Tritech	GAZCHAMP-EX	0-100% LEL	0-100% LEL

SR.	GAS TYPE	LEL%	UEL%
1	ETHELENE	2.7	36
2	HYDROGEN	4	75

4550388339
4550388339

3	NATURAL GAS(METHANE98% + ETHANE2%)	5	17
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Prepared By		Approved By	
Name:		Name:	
Sign:		Sign:	
Date:		Date:	

Cross sensitivity of Methane	1
Cross sensitivity of Ethylene	0.71
Formula	(1/0.71)*50%
Calibrated value	70.40%

Annexure-I



ગુજરાત ગુજરાત GUJARAT **NOTARY**

AU 189555

NOTARY

૨૦૧૬-૧૭

તાલુકા નો જલસો સ્ટેશન
સુરતના જિલ્લામાં
૫૪
૨૦૦૬
૬૭



UNDERTAKING

I Mr.Sandip Parekh DGM-Production(Division Head) of M/s. Anushakti Specialties Limited Liability Partnership having their Admin office at 2nd floor, Udhyog Kshetra, Mulund Goregaon Link Road, Mulund Mumbai - 400 080, and having Factory at plot no.Z/103/H, Dahej SEZ II, Tal. Vagra, Dist. Bharuch, does hereby declare and state as under:

I undertake that the company has no outlet in GIDC underground Drain.

What is stated herein is true to the best of my knowledge and the same I believe to be true.

For, Anushakti Specialties L.L.P.

Sandip Parekh-DGM -Production
(Division Head)



JAMA B. KHATRI

Notary (Govt. of India)
Anklshwar & Bharuch
Block No. 4 Room No.39
Gujarat Housing Board
1st Talab, Anklshwa

Date : 18/04/2016



The undersigned does not take any Responsibility for The Contents Produced of the Document. Applicant / Identifier / Witness before me Only

BHARUCH MUNICIPALITY - BHARUCH

ભરૂચ નગર પાલિકા, ભરૂચ.

(STD CODE-02642) (O) 220143,241753

જા.નં/ફાયર/ ૧૧૫

તા-૧૫/૧૨/૨૦૧૯

પ્રતિ,

જનરલ મેનેજરશ્રી,

આરતી ઇન્ડસ્ટ્રીઅલ લીમીટેડ,

પ્લોટ નં. Z-૧૦૩/II, સેઝ પાર્ટ-૨, ઇન્ડસ્ટ્રીઅલ એસ્ટેટ,

તા.વાગરા, જી.ભરૂચ, ગુજરાત-૩૯૨૧૩૦

વિષય: ફાયર NOC આપવા બાબત.

સંદર્ભ: આપશ્રીની અરજી તા-૨૫/૧૦/૨૦૧૯

ઉપરોક્ત વિષય અને સંદર્ભ માં જણાવવાનું કે મોજે દહેજ, આરતી ઇન્ડસ્ટ્રીઅલ લીમીટેડ, પ્લોટ નં. Z-૧૦૩/II, સેઝ પાર્ટ-૨, ઇન્ડસ્ટ્રીઅલ એસ્ટેટ, તા.વાગરા, GIDC દહેજ, જીલ્લો.ભરૂચ, ગુજરાત-૩૯૨૧૩૦ની જમીનમાં ઔદ્યોગિક હેતુ માટે કંપનીનું આયોજન કરવામાં આવેલ છે. સદર કંપનીમાં ફાયર સેફ્ટી અંતર્ગત સુવિધાઓ હયાત છે. ઔદ્યોગિક હેતુ માટેની હયાત બિલ્ડીંગના બાંધકામમાં ફાયર અંતર્ગત કરેલ સુવિધાઓ બાબતે માંગેલ NOC સંદર્ભે અત્રેની કચેરી ધ્વારા રીજનલ ફાયર ઓફીસરશ્રી, સુરતનો જરૂરી અભિપ્રાય માંગેલ જે પત્ર નં.૨૩૬, તા.૨૨/૧૦/૨૦૧૯ થી રજુ કરેલ છે તથા પ્રીમાઈસીસમાં રાખવામાં આવેલ ફાયર લગત સાધનોનું ઇન્સ્પેક્શન રીજનલ ફાયર ઓફીસરશ્રી, સુરત ધ્વારા કરવામાં આવેલ છે. જે ચાલુ હાલતમાં અને કાર્યરત છે.

સદર બાંધકામમાં કરવામાં આવેલ ફાયર અંતર્ગત સુવિધાઓ સહિત આ બાંધકામને લગતા કાગળો રજુ કરી ફાયર અંતર્ગત જરૂરી NOC માંગવામાં આવેલી છે. આ કામે અરજદારશ્રી ધ્વારા નીચે મુજબના સાધનિક કાગળો રજુ કરેલ છે.

૧) બિલ્ડીંગના માલિક ધ્વારા ફાયર અંતર્ગત સુવિધાઓ લગાડેલ છે અને ચાલુ કંડીશનમાં છે તે

બાબતનું રીજનલ ફાયર ઓફીસરશ્રી, સુરતનો તા.૨૨/૧૦/૨૦૧૯ નો ઇન્સ્પેક્શન લેટર.

૨) ઔદ્યોગિક હેતુ ઇન્ડસ્ટ્રીઅલ સેફ્ટી અને હેલ્થ ગુજરાત સ્ટેટ અમદાવાદએ મંજૂર કરેલ પ્લાનની નકલ.

૩) રીલાયબલ ફાયર એન્જીન્યરીંગ સર્વિસીસ, સુરતનું ફાયર કન્સલ્ટન્ટનું તા.૦૫/૧૨/૨૦૧૯ નું સ્ટેબીલીટી સર્ટી.

૪) તા. ૨૧/૦૯/૨૦૧૬ નું DASH ગુજરાત સ્ટેટનું ફેક્ટરી વર્ક લાઇસન્સ.


- પ) તા. ૨૧/૦૪/૨૦૧૭ નું પેટ્રોલીયમ એન્ડ એક્સ્પ્લોઝીવ સેફ્ટી ઓર્ગેનાઇઝેશન(PESO)નું લાઇસન્સ.
 ક) ગુજરાત પોલ્યુસન બોર્ડના સર્ટી
 ગ) ફાયર હોઝ રીલ, હુટર, ફાયર પેનલ, હાઈડ્રન્ટ સીસ્ટમ, એમસીપી, ABC Type, Co2 ફાયર એક્સ્ટીંગ્યુસરના ઇન્સ્ટોલ અને ટેસ્ટીંગ રીપોર્ટ.
 ઠ) બિલ્ડીંગ પ્લાન અને ફાયર સીસ્ટમ ડાયાગ્રામ.
 ડ) તા. ૦૬/૦૪/૨૦૧૮ના એચ.એમ.ઈલેક્ટ્રીકલ એન્જીનીયરના રીપોર્ટ.
 ૧૦) કંપનીના ઓન સાઈડ તથા ઓફ સાઈડ ઈમરજન્સી પ્લાનની કોપી
 ૧૧) MSDS કોપી
 ૧૨) સાઇન બોર્ડ
 ૧૩) ફોટોગ્રાફ.

સદર હયાત બાંધકામમાં કરવામાં આવેલ ફાયર સુવિધાઓ બાબતે અત્રેની કચેરીના ફાયર સ્ટ્રંક ધ્વારા સ્થળ નિરીક્ષણ કરવામાં આવેલ છે. સ્થળ સ્થિતિ મુજબ તથા સાધનિક કાગળો મુજબ ફાયર અંતર્ગત આ બાંધકામમાં સુવિધાઓ અરજદારશ્રીના ફાયર કન્સલ્ટન્ટશ્રી રીલાયબલ ફાયર એન્જીન્યરીંગ સર્વિસીસ, સુરત, ધ્વારા NBC પાર્ટ- ૪ને આધિન પુરી પાડવામાં આવેલ છે અને કાર્યરત છે.

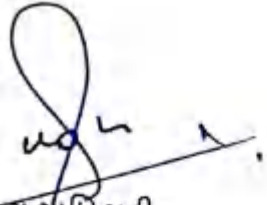
ઉક્ત વિગતોએ નીચે જણાવેલ શરતોને આધીન આ બાંધકામમાં રાખવામાં આવેલ ફાયર સુવિધા બાબતે ફાયર NOC આપવામાં આવે છે.

શરતો:-

- 1) આ NOC ફક્ત ૧ વર્ષ ની મુદત માટે આપવામાં આવે છે. મુદત પૂર્ણ થયે તેને રિન્યુયલ કરવાની રહેશે. અન્યથા આપેલ NOC રદબાતલ ગણાશે.
- 2) હયાત બાંધકામ માં રાખવામાં આવેલ ફાયર અંતર્ગત સુવિધાઓનું વખતોવખત જાળવણી / નિભાવણી રાખવાની રહેશે. આ બાબતે નિયુક્ત કરેલ સ્ટાફ ને કાયમી રીતે રાખવાના રહેશે.
- 3) કોઈ આકસ્મિક બનાવ ન બને તેની સંપૂર્ણ કારજી રાખવાની રહેશે. અને જો કોઈ આકસ્મિક બનાવ બનશે તો તેની સંપૂર્ણ જવાબદારી તમારા શિરે રહેશે.


 ફાયર સુપ્રિટેન્ડન્ટ
 ભરૂચ નગરપાલિકા
 ભરૂચ




 મુખ્ય અધિકારી
 ભરૂચ નગરપાલિકા
 ભરૂચ

To,
The Unit Head (Hazardous waste cell),
Gujarat Pollution Control Board,
Gandhinagar.

Subject: Intimation for Sale of Aluminium Hydroxide -Al(OH)₃ under Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

Respected Sir,

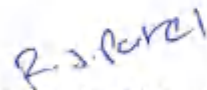
With reference to the above-mentioned subject, we would like to send the Aluminium Hydroxide Al(OH)₃ to **M/s. Sinhal Brothers (XGN ID 14145)** located at Ranipur Patia, Opp. Cozy Hotel, Narol, Ahmedabad - 382405, Gujarat, who applied for Rule-9 application for utilization of Aluminium Hydroxide Al(OH)₃.

Copy of the CC&A of our Unit is attached as **Annexure-I** and valid CCA of **M/s. Sinhal Brothers** is attached as **Annexure-II**. We have also entered into MOU which is enclosed herewith as **Annexure-III**.

Also, the industry has applied for permission under Rule-9 of H&OW Rule-2016 to CPCB as well as GPCB to utilize Aluminium Hydroxide Al(OH)₃ in ETP as a neutralizing agent in ETP. A copy of the Rule-9 application is enclosed herewith as **Annexure-IV**.

We are submitting this letter for your kind consideration and your information.

Thanking you,
For **M/s. Aarti Industries Limited**


Authorized Signatory



CC to :

1. The Unit Head (Bharuch), GPCB Gandhinagar.
2. The Regional Office, GPCB Bharuch.


Gujarat Pollution Control Board
Head Office
Sector No.-10-A,
Gandhinagar-382010

Ambuja Cement

06.02.2024

ACL/ HW / AFR/ 2024/

M/s Aarti Industries Limited Unit:1
Plot no Z/103/C, Dahej sez II,
Taluka : VAGRA, Dist:-BHARUCH
Dahej-392130
Dist:-BHARUCH (Gujarat)
M-9033686989 Shri Sandip Parekh

Sub: Certificate Of Receipt/Disposal of the mix solid waste from M/s
Aarti Industries Limited unit-1, during jan-2024.

Dear Sir,

With reference to above, we have received 3.100 MT mix solid waste from your unit. We are enclosing herewith, a certificate of disposal for solid waste mixed for co-processing that we have co-processed during the month of jan-2024.

We are returning herewith the bunch of corresponding Manifest sheets Copy No 6 duly signed to you.

This is for information and record please.

For Ambuja Cements Limited



Sanjay Dodiya
Head (Geoclean)

CC : The Member Secretary
Gujarat Pollution Control Board
Paryavaran Bhavan, Sector – 10A
Gandhinagar – 382 010
Encl:a/a

Ambuja Cements Limited
(Unit : Ambujanagar)

Regd. office : Adani Corporate House, Shantigram, Near Vaishnav Devi Circle, S. G. Highway,
Khodiyar, Ahmedabad, Gujarat 382421.

Ambuja Cement

CERTIFICATE

We have received 3.100 Tons of solid mixed waste from M/s. Aarti Industries Limited-Unit -1, Dahej Gujarat During the month of jan - 2024. This is to certify that we have successfully co-processed 3.100 tons solid mixed waste during the period jan - 2024.

During co-processing, this hazardous waste material was safely and completely disposed.

Detailed statement showing date wise receipts of the material is enclosed. We are returning herewith the bunch of corresponding Manifest sheets duly signed.

For Ambuja Cements Limited



Sanjay Dodiya
Head (Geoclean)

Ambuja Cement Limited
Ambujanagar
Kodinar – 362715
District: Gir-Somnath
Gujarat.

Date: 06-02-2024

Ambuja
Cement

To
Aarti Industries Limited Unit-1, Dahej
Statement showing receipt of a solid waste mixed during jan-2024

Sr.No	Receipt Date	Challan Date	Manifest.No	Vehicle.No	Qty
1	08-01-2024	05-01-2024	GJ16AV6154	2329604	3.100
		TOTAL			3.100



- The words "Notarial" and "Gujarat" are printed on the stamps.
- Any alteration to this certificate renders it invalid and would constitute a criminal offence.
- Kindly contact Stock Holding Branch / Centre in case of discrepancy.
- For information related to e-Stamping you may write to us on our email id estamp.ahmedabad@stockholding.com or visit our Branch/Centre.

સૂચના

- આ ઈ-સ્ટેમ્પ પ્રમાણપત્રની વિગતો www.shcilestamp.com દ્વારા અથવા સ્ટોક હોલ્ડિંગની "ઈસ્ટેમ્પિંગ" મોબાઈલ એપ્લિકેશન અથવા સ્ટોક હોલ્ડિંગની શાખા / કેન્દ્ર (જેની વિગતો www.stockholding.com પર ઉપલબ્ધ છે) પર જઈ ને ચકાસી શકાય છે.
- આ પ્રમાણપત્રમાં કરેલ કોઈપણ ફેરફાર અમાન્ય છે અને તે ફોજદારી ગુનો બને છે.
- આ ઈ-સ્ટેમ્પ પ્રમાણપત્રમાં કોઈપણ વિસંગતતા જણાય તો સ્ટોક હોલ્ડિંગની શાખા / કેન્દ્ર પર સંપર્ક કરવો.
- ઈ-સ્ટેમ્પિંગ સંબંધિત જાણકારી માટે અમને estamp.ahmedabad@stockholding.com પર ઈ-મેઈલ કરવો અથવા અમારી શાખા / કેન્દ્ર ની મુલાકાત લેવી.





**MEMORANDUM OF UNDERSTANDING
BETWEEN**

Particulars	Generator	Utilizer
Name	M/s. Aarti Industries Limited (Dahej)	M/s. Harekrishna Enterprises
Address	Plot No. Z/103/H, Dahej SEZ-II, Tal Vagra, Dist: Bharuch, Gujarat	Plot No.138, Nr.Bharat Petroleum, NH-08 Amripura, Anklshwar, Dist: Bharuch, Gujarat.
CC&A No./ Consent No.	AWH-112729 Issued on 31.05.2021 Valid upto 19.05.2028	—
CC&A/Consent Issuer	Gujarat Pollution Control Board, Gujarat	—
Name of Material/Waste	FLY ASH	
CC&A/Rule-9 application Quantity	960 MT/Month	
MOU Quantity	960 MT/Month	
Validity of MOU	27.08.2028	

The particulars of this MOU including terms and conditions between the Generator & the Supplier are mentioned herewith:

That

1. As a part of this MOU, the Utilizer/End user has agreed to accept the Fly Ash Waste generated from the manufacturing activities of the Generator.
2. Hazardous Waste shall be transported through AIS-140 compliant Global Positioning System (GPS) enabled dedicated tankers/trucks only.
3. Both the parties, the Generator and the Utilizer/End user, shall install and operate CCTV surveillance system with 24x7 recordings at their factory premises and at least one month's storage of footage be made available for inspection at any given point of time.
4. The Transporter shall be responsible in case of any illegal disposal of fly ash during the transportation and shall safely transport the fly ash from the premises of the generator till the premises of the Utilizer/End user.
5. Both the parties, the Generator and the Utilizer/End user, shall keep record of inventory of fly ash generation, reception and utilization and shall make inventory available for inspection.
6. Both the parties, the Generator and the Utilizer/End user, shall strictly follow notification of fly ash guidelines and its amendments.

7. The Transporter shall ensure that the trucks shall be dedicated for transportation and compliance of Motor Vehicle Act rules.

M/s. Aarti Industries Limited
(Dahej)

R. S. Patel
Authorized Signatory



21 SEP 2023

M/s. Hare Krishna Enterprises,
Ankleshwar

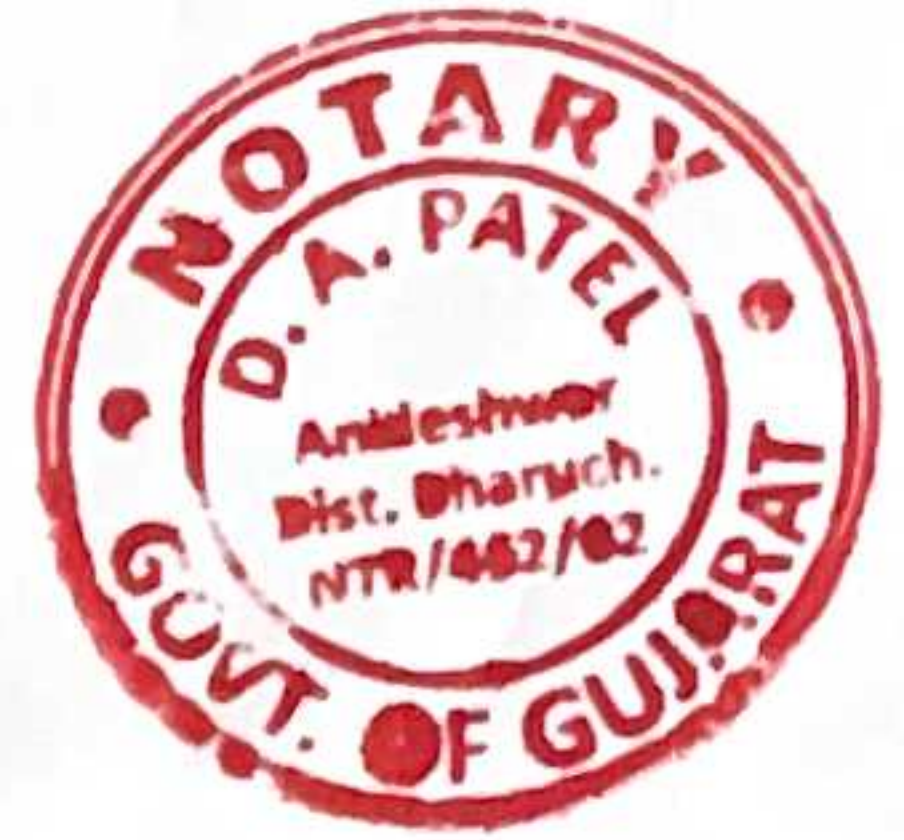
B. Patel

Authorized Signatory

SIGNED BEFORE ME

[Signature]
Notary

D. A. PATEL
Ankleshwar



21 SEP 2023

PH No (02546) 24944

Q
DILIPBHAI A PATEL

NOTARY Docu Reg No 2846123

Date 21/9/23

Reg No NTR/ANK/DAP/462/02
Ankleshwar-01, Dist Bharuch





Annexure - VIII

BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Date 31-08-18

To,
Aarti Industries Ltd.
Plot No. Z/103/H,
Dahej Sez -II,
Tal: Vagra,
Dist: Bharuch.

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 Bharuch Enviro Infrastructure Ltd., at GIDC, Ankleshwar and Dahej. You have booked solid waste quantity of 150 MT/year. You have also paid your capacity commitment charges. Your Membership No. is Oth/653

Waste will be accepted after submitting valid authorization of GPCB.

Thanking you,

Yours faithfully,
For, BHARUCH ENVIRO INFRASTRUCTURE LTD.


AUTHORISED SIGNATORY

CIN No.: U45300GJ1997PLC032696

Works Office : Plot No. 9701-16 GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 225228 • Fax : (02646) 222049 • E-mail : panjwanis@uniphos.com
Regd. Office : Plot No. 117-118, GIDC Estate, Ankleshwar 393 002, Dist.: Bharuch. (Gujarat)



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

28th MAY, 2020

To,
AARTI INDUSTRIES LTD. - DAHEJ
PLOT NO.Z/103/H,
DAHEJ SEZ - II,
TAL: VAGRA,
DAHEJ.

Sub : Membership Certificate for Common Incineration Facility


Dear Sir,

You are a member of our Common Incinerator Facility and your membership No. is **CI/BD/94**. We hereby certify that your booked quantity has increased from **140 MT / Year to 265 MT / Year**.

Thanking you,

Yours faithfully,

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


AUTHORISED SIGNATORY

CIN No.: U45300GJ1997PLC032696

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

Certificate

Certificate No: **CPAW1A0046**

To Whomsoever it may concern
This is to certify that
AARTI INDUSTRIES LTD (DAHEJ UNIT)

PLOT NO-Z/103/H,
DAHEJ SEZ-II,
TA-VAGRA,
DAHEJ

is a valid member of
Recycling Solutions Private Limited

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

Date of issue : 18/01/2017
Date of expiration : 17/01/2027
Place of issue : Panoli

For, Recycling Solutions Private Limited
Director/Authorised signatory

Waste Information :					
SrNo	Type Of Waste	Sign Qty (TPA)	SrNo	Type Of Waste	Sign Qty (TPA)
1	PROCESS WASTE	600.000			
Total Sign Qty (TPA) :					600.000

SUBJECT TO BHARUCH JURISDICTION



Certificate

Certificate No.: 1200002426

To Whomsoever it may concern

This is to certify that

AARTI INDUSTRIES LTD.

PLOT NO. Z/103/H,
DAHEJ SEZ II, TAL: VAGRA,
DAHEJ

is a valid member of

SAURASHTRA ENVIRO PROJECTS PVT. LTD.

for

Integrated Common Incineration Facility

This membership is valid for a period of

5 Years

Date of Issue : 23.09.2021

Date of Expiration : 22.09.2026

Place of Issue : Surat

For, Saurashtra Enviro Projects Pvt. Ltd.

Director

SUBJECT TO SURAT JURISDICTION

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.

Date :-16/05/2022

GPCB ID:- 41201

To,
The Regional Officer,
Gujarat Pollution Control Board,
C-1/119/3, GIDC Phase II,
Narmadanagar, Bharuch - 392 015

Sub: Intimation regarding excess soil shifting for the purpose of leveling

Respected Sir,

With reference to the subject cited above, we would like to inform the board that we have got an internal requirement at our developing nearby plot(Z/111/C&D) inside SEZ-II to provide soil for the purpose of leveling and filling the low lying area. Accordingly we are going to send the excess soil from our plant area to our newly developing plot.

The new plot allotment letter from SEZ is attached herewith as Annexure-I.

We are requesting you to take note of the above in your record.

Kindly acknowledge this letter.

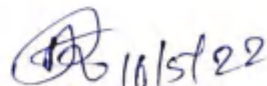
Thanking You,

Yours faithfully,
For, Aarti Industries Limited



for Authorized Signatory




Post Received
Gujarat Pollution Control Board
BHARUCH



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)
E-mail: am@dahejsez.com / info@dahejsez.com
Website: www.dahejsez.com, CIN - U45209GJ2004PLC044779

75
Azadi Ka
Amrit Mahotsav

No. DSL/DHJ/Aarti/2022/150

Date: 13th May, 2022

Allotment order No.:	DSL/APL/PLT/AARTI IND./2017/1291/2022/115	Date: 04.02.2022
Corrigendum :	-	
Agreement with DSL :		Date: 06.05.2022
Possession Advice No.:	DSL/POSSESSION ADVICE/2022/548	Date: 06.05.2022

Possession Receipt

In pursuance of allotment of Plot No. Z-111-C & D situated in the Dahej SEZ Area (Part-2) consisting revenue Survey Nos.: 450/P, 451/P, 452/P, 456/P, 458/P, 459, 460/P, 462/P, 582/P, 583/P, 584, 585/P, 586/P, 587/P, 591/P, 592/P, 593/P, 594/P, 595, 596, 597, 598/P, 599/P, 601/P, 602/P, 603/P & Rasta within the limit of Lakhigam village. Taluka Vagra, District Bharuch containing by area admeasuring 115022.45 Sq.Mt. (tentative) is handed over to M/s. Aarti Industries Ltd. today i.e. Date: 13.05.2022 in good condition.

The said premises are bounded as follows :

✓ Plot No: Z-111-C & D (SEZ Part-2)

On towards North By	Dahej SEZ Boundary
On towards South By	5 Mtr. wide corridor & 20 Mtr. wide road
On towards East By	Plot No.: Z-111-B
On towards West By	Plot No.: Z-111-E & Dahej SEZ Boundary

Possession Taken Over By Shri : Pranav Bhatt Designation : Sr. Manager (CA) Postal address of Unit: Plot No: Z-103-H, Dahej SEZ Part-2, Dahej-392130. Mo.: 98256 20199 E-mail: pranav.bhatt@arti-industries.com Sign & Seal :	Possession Handed Over By: Shri : Niraj Shah Designation: Manager (Infra) Sign: For, DAHEJ SEZ LTD. Place: DSL Authorised Signatory
--	--

Copy to:

1. The Chief Executive Officer, DSL, Gandhinagar.
2. The Superintendent Engineer, GIDC, Bharuch

For Plot NO. Z/111/C, Z/111/D



Note:-

- All dimension are in meter,
- Dimension mentioned are as per joint survey done at site.
- Unit will not make any payment for survey done at site.
- Drawing not to scale.
- Area :- 115022.45 Sq.mt

For, DAHEJ SEZ LTD.
 Authorised Signatory

(Signature)
 Site Engineer (DSU)

(Signature)
 Sr. Manager

Coal Handling Guideline Compliance		
Sr. no.	Content	Compliance
(A) Location criteria		
1.	Coal handling unit/Agency shall not use any agriculture land and shall be located at a minimum distance of 250 meters away from the surrounding agricultural land.	Complied. The unit is already located at a minimum distance of 250 meters away from the surrounding agricultural land. Our unit is in the Special Economic Zone area.
2.	Government waste land not suitable for any agricultural purpose meeting with the requisite siting / distance criteria shall be preferred for establishing coal handling units.	Complied. Our unit is in the Special Economic Zone area.
3.	Coal handling unit/Agency shall be minimum 500 meters away from the residential area, school/colleges, Historical Monuments, Religious Places, Ecological sensitive area as well as forests area.	Complied. There is no residential area, school/colleges, Historical Monuments, Religious Places, Ecological sensitive area of 500 m radial distance from the project site.
4.	Coal handling unit/Agency shall be located at a minimum 500 meters away from the Railway line, Expressways, National Highways, State ways and District Roads and from water bodies like River, Nala, Canal, Pond etc.	Complied. There is no Railway line, Expressways, National Highways, State ways and District Roads and from water bodies like River, Nala, Canal, Pond of 500 m radial distance from project site..
5.	In case of coal handling activities at the ports and jetties or extension thereof, the distance and land use criteria may be relaxed and compensated by advanced/sophisticated pollution control measures and mechanization & thick plantation, however all such ports and jetties, where coal handling is carried out, shall provide closed conveyor belt and mechanization for handling of coal.	Complied. Our unit is not carrying out coal handling activities at the ports and jetties or extension thereof.
(B) Storage and handling criteria		

6.	Coal handling unit/Agency shall store coal in such a way that coal heap should not be higher than 5 meter and clear distance between two adjoining heaps at G.L. should be 5 meters, so that in case of fire, approach is available.	Complied
7.	There should be mechanized loading/ unloading system from the loading /unloading area to the stacking yards and into the vehicles.	Complied.
8.	Coal handling unit/Agency shall take all corrective steps to resolve the issue of air pollution at permitted coal storage/handling area where coal is being stored.	Unit has take all corrective steps to resolve the issue of air pollution at permitted coal storage/handling areas where coal will be stored.
(C) Transport criteria		
9.	Coal handling unit/Agency shall ensure that all trucks before leaving the storage yard shall be showered with water with adequate system, Shall be covered with tarpaulin or any other effective measure/device completely and also that trucks are not overloaded as well as there is no spillage during transportation.	Unit has ensured that all trucks before leaving the storage yard will be showered with water with adequate system, covered with tarpaulin or any other effective measure/device completely and also that trucks are not overloaded as well as there is no spillage during transportation.
10.	The vehicle carrying the coal should not be overloaded by raising the height of carriage. Weigh scale shall be provided within the loading area only and port / coal park authority shall ensure that no overloading is done.	The unit has ensured that the truck is properly covered and is not overloaded.
11.	The top of the vehicle should be covered with fixed cover instead of tarpaulin cover to avoid spillage or dusting of coal.	Complied
(D) Pollution prevention criteria		
12.	Coal handling unit/Agency shall provide paved approach with adequate traffic carrying capacity	Complied
13.	Coal handling unit/Agency shall construct compound wall all along the periphery of the premises with minimum 9 meters height	Complied

14.	Continuous water sprinkling shall be carried out on the top of the heap at regular intervals to prevent dusting, fire & smoke. To prevent fugitive emissions during loading/unloading, fixed pipe network with sufficient water storage and pump shall be installed. Water sprinkling shall be carried out at each and every stage of handling to avoid generation of coal dust or other dust within premises	Complied
15.	Coal handling unit/Agency shall ensure regular sweeping of coal dust from internal and main road and also ensure that there is adequate space for free movement of vehicles.	Complied
16.	The following adequate Air Pollution Control Measures shall be installed and to be operated efficiently.	Complied
	(a) Dust containment cum suppression system for the coal stack, loading and unloading.	Complied
	(b) Construction of effective wind breaking wall suitable to local conditions to prevent the suspension of particles from the heaps.	Complied
	(c) Construction of metal road & RCC Pucca flooring in the plot area/godown etc.	Complied
	(d) System for regular cleaning and wetting of the floor area within the premises.	Complied
	(e) Entire coal storage area/ godown should be covered with permanent weather shed roofing and side walls i.e., in closed shed, in case of crushing/sieving/grading activity is carried out (i.e. G. I. Sheet) along with adequate additional APCM should be installed.	Entire coal storage area/ godown will be covered with permanent weather shed roofing and side walls.
17.	Coal handling unit/Agency shall carryout three rows plantation with tall growing trees all along the periphery of the coal handling premises, inside & outside of the premises along with road.	Unit has three row plantations with tall growing trees all along the periphery of the coal handling premises, inside & outside of the premises along with road.
18.	Proper drainage system shall be provided in all coal storage area so that water drained from sprinkling & runoff is collected at a common tank and can be reused after screening through the coal slit or any other effective treatment system.	Complied


19.	All the engineering control measures and state of the art technology including covered conveyor belts, mechanized loading and unloading, provision of silo etc. shall be provided in addition to the measures recommended in the environmental guidelines for curbing the pollution.	All the engineering control measures and state of the art technology including covered conveyor belts, mechanized loading and unloading, provision of silo etc. Unit has provided a telescopic chute for unloading of fly ash from silo for reducing dusting in the atmosphere..
(E) Safety requirement		
20.	Coal handling unit/Agency shall provide adequate fire fighting measures to avoid any fire or related hazards including adequate water storage facility, and the premises shall be exclusively used for storage of the coal.	Complied
21.	An onsite emergency plan shall be prepared and implemented by coal handling unit.	Complied
(F) Legal criteria		
22.	Necessary permission from all the applicable regulatory authorities and adequate steps under the provisions of applicable environmental acts/ rules shall be taken.	Complied
23.	Coal handling unit/Agency shall prepare EMP (Environment Management Plan) and implement the same in true spirit and thus maintain overall environment of that area.	Complied
24.	Coal handling unit/Agency shall not carry out the operation of loading/unloading of coal/coal dust at any place, till adequate air pollution control equipment for dust control/suppression are installed and efficiently operated and the consent under the provisions of Air (Prevention & Control of Pollution) Act, 1981 is obtained by the coal yard owners/ Coal handling unit/Agency / coal importers.	Complied
25.	Coal handling unit/Agency shall operate continuous Ambient Air Quality Monitoring Stations as per CPCB guideline. The results of parameters like SPM, RSPM, and SO ₂ and NO _x shall be submitted to the SPCB three month.	Complied

26.	<p>The concentration of the following parameters in the ambient air within the premises and a distance of 10 meters from the source (other than the stack/vent) shall not exceed the following levels.</p> <table border="1" data-bbox="261 331 911 821"> <thead> <tr> <th rowspan="2">PARAMETERS</th> <th colspan="2">PERMISSIBLE LIMIT</th> </tr> <tr> <th>Annual (Microgram/m³)</th> <th>24 hrs Average (Microgram/m³)</th> </tr> </thead> <tbody> <tr> <td>PM 10</td> <td>60</td> <td>100</td> </tr> <tr> <td>PM 2.5</td> <td>40</td> <td>60</td> </tr> <tr> <td>SO₂</td> <td>50</td> <td>80</td> </tr> <tr> <td>NO_x</td> <td>40</td> <td>80</td> </tr> </tbody> </table>	PARAMETERS	PERMISSIBLE LIMIT		Annual (Microgram/m ³)	24 hrs Average (Microgram/m ³)	PM 10	60	100	PM 2.5	40	60	SO ₂	50	80	NO _x	40	80	Complied
PARAMETERS	PERMISSIBLE LIMIT																		
	Annual (Microgram/m ³)	24 hrs Average (Microgram/m ³)																	
PM 10	60	100																	
PM 2.5	40	60																	
SO ₂	50	80																	
NO _x	40	80																	

(G)Installation and Operation of Air Pollution Control Measures

27.	<p>The applicant shall be required to provide the following minimum APCM based on type of fuel and its consumption, fuel property like CV equivalent (NCV of fuel), equivalent ash content, equivalent moisture content etc. the industry may add to the APCM prescribed below, if need be so.</p> <table border="1" data-bbox="261 1230 911 1602"> <thead> <tr> <th>Steam Generation Capacity</th> <th>Types of APCM</th> </tr> </thead> <tbody> <tr> <td>Less than 1</td> <td>Cyclone + Water Scrubber</td> </tr> <tr> <td>1 to 8</td> <td>Multi Cyclone + Bag Filter + Water Scrubber</td> </tr> <tr> <td>8 and more</td> <td>ESP</td> </tr> </tbody> </table>	Steam Generation Capacity	Types of APCM	Less than 1	Cyclone + Water Scrubber	1 to 8	Multi Cyclone + Bag Filter + Water Scrubber	8 and more	ESP	Complied
Steam Generation Capacity	Types of APCM									
Less than 1	Cyclone + Water Scrubber									
1 to 8	Multi Cyclone + Bag Filter + Water Scrubber									
8 and more	ESP									

28.	<p>The unit shall install on line continuous emission monitoring system (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.</p>	Complied.
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29.	If Boilers is of more than 8 TPH capacities, the unit shall install online CO2 analyzer/ online CO2 monitoring system and the combustion efficiency of the Boiler should be checked regularly.	Complied. 
30.	In case of ESP, minimum 3 fields shall be provided.	Complied.
31.	Control of SOx through one of the processes mentioned below (for coal fired boilers).	It will be complied. We will use one of the following mentioned process to control the SOx emission.
a	· Wet Limestone Process	
b	· Semi-wet Flash Absorption Process	
c	· Spray Drying-cum-Absorption Process	
d	· Sodium Alkali Process	
e	· Ammonia Process	
32.	Control of particulate matter by installing efficient ESP/Bag filters.	Complied.
33.	Control of NOx with latest combustion grate technology, dynamically Air/Water cooled grate system (for multi fuel boilers & less than 20 TPH capacity).	Complied. Unit has used the latest combustion grate technology, dynamically Air/Water cooled grate system to control the NOx emission.
34.	PLC controlled operations.	Complied Unit has provided a DCS system to control operations.

35.	Boiler efficiency shall be minimum 75 % and record for the same shall be maintained.	Complied.
36.	Boilers having capacity of 3 TPH or more shall be provided with an Online monitoring system and auto fuel feeding system with conveyor/screw belt.	Complied.
37.	The cyclone bottom opening should be kept airtight & leak proof; else, it would reduce cyclone efficiency. The duct collected should be taken out from time to time (say once per shift) & appropriately disposed avoiding secondary pollution.	Complied.
38.	Cyclone, multi cyclone, bag filter and ESP shall be provided with rotary air valve for auto collection/discharge of fine dust	Complied.
39.	Material of construction of wet scrubber should be S.S. 316 or equivalent to withstand against corrosion and acid effect. All water circulation pipe and pump should be S.S. 316 or acid and corrosion proof.	Complied.
40.	Sufficient water storage tank and filter arrangement to be provided for removing micro dust from circulating water.	Complied.
41.	Air pressure line of adequate capacity shall be provided for efficient working of air pulse jet system.	Complied. Air pressure line of adequate capacity has provided for efficient working of air pulse jet system.
42.	Energy meter for APCM shall be provided and record for the same should be maintained.	Complied.
43.	In bag filter technical by-pass can be allowed only heavy duty bypass damper arrangement in case if the by-pass is provided by the manufacturer itself and can operate with electro pneumatic system in case of high temperature or low temperature gas (dew point temperature acid formation), RAV not operating. By-pass gas should pass through only cyclone or multicyclone before connected to chimney. In any case manual by-pass system is not allowed.	Complied.
44.	Auto by-pass system should display on the control panel	Complied.

(H)Stack/chimney requirements:		
45.	Stack height shall not be less than 33 meters in any case.	Complied. Stack height is 80 meters.
46.	Chimney should be provided with strong ladder and platform to take sample.	Complied. Chimney will be provided with a strong ladder and platform to take samples.
48.	230 V electrical points with weather proof plug and switch to be provided near chimney for sampling instrument.	Complied.. 230 V electrical points with weather proof plug and switch will be provided near the chimney for sampling instruments.

Fly Ash Handling Guideline Compliance		
Sr. No.	Content	Compliance
1	Sender and Receiver collectively shall ensure that fly ash is transported in Environmentally sound manner following the guidelines prescribed by CPCB.	Complied.
2	The user agency shall obtain prior approval of design of Road Tankers/ Bulklers or mechanically covered trucks, as the case may be, from the concerned State Pollution Control Board.	Complied.
3	State Pollution Control Board shall clearly indicate mode of transportation and method of loading and unloading while granting the Condition.	Complied.
4	In no case, Fly Ash or Bottom ash shall be allowed to be transported by open trucks/ trollies irrective of distance or end use.	Complied. Unit has ensured that the Fly ash is in wet condition and totally covered by tarpaulin during transportation.
5	Fly Ash is generally transported either from fly ash Silo or from ash pond upto distance varying from less than 1 Km to 50 Kms using the SPCB granted modes of transportation.	Complied. Fly Ash will be transported from fly ash Silo upto distance varying from less than 1 Km to 50 Kms using the SPCB granted modes of transportation.
6	Fly ash is stored only in Silo, Domes and other bulk storage facilities.	Complied. Fly ash will only be stored in Silo, Domes and other bulk storage facilities.

7	Fly ash can be transferred using air slides, bucket conveyors, screw conveyors or through pipelines under positive or negative pressure condition to the Silo to prevent the fugitive emission.	Complied.
8	The opening of telescopic chutes should be closed and confined to avoid fugitive dust emission.	Complied.
9	Avoid overfilling of fly ash in tractors/ trucks during transportation. Adequate free board in trucks should be kept to avoid overflow/ spillage during transportation.	Complied.. No overfilling of fly ash in tractors/ trucks will be done during transportation. Adequate free board in trucks will be kept to avoid overflow/ spillage during transportation.
10	The Fly ash silo should be made of anti-abrasive or anti-corrosive. It is preferred to provide concrete Silo / Hopper to avoid leakages.	Complied.
11	Telescopic Chutes should be anti-abrasive material/ cloth.	Complied.
12	Water sprinkling should be made to suppress fugitive emission, if any generated.	Complied.. We will provide a water sprinkling system nearby the area to prevent fugitive emission.
13	Unit should make arrangements for washing wheels of the vehicles (Bulkers/Trucks) before they leave out for the main road.	Complied.. Unit will make arrangements for washing wheels of the vehicles (Bulkers/Trucks) before they leave out for the main road.
14	In case of any spillage enroute during transportation of fly ash, the agency shall ensure that spilled ash is collected and transported to the disposal/ usage site immediately.	Complied.. In case of any spillage enroute during transportation of fly ash, the unit will ensure that spilled ash is collected and transported to the disposal/ usage site immediately.
15	All the Bulkers and trucks or tractors responsible for carrying fly ash should have valid pollution Under Control certificates.	It will be complied.. We will ensure that all the Bulkers and trucks or tractors responsible for carrying fly ash have valid pollution Under Control certificates.
16	The speed limit of vehicles carrying fly ash should be strictly enforced and in no case the same shall exceed 40 kms per hour.	It will be complied.. We will ensure that the speed limit of vehicles carrying fly ash is strictly enforced and in no case exceeds 40 kms per hour.
17	Transportation of fly ash through thickly populated areas should be avoided as far as possible.	Complied.
18	General awareness/ training programmes should be organised regularly for tankers operating staff like drivers and cleaners on the impact of hazard of fly ash.	Complied.. General awareness/ training programmes will be organized regularly for tankers operating staff like drivers and cleaners on the impact of

		hazard of fly ash.
19	<p>Fly ash based Brick, Tiles, Blocks etc manufacturers should have mechanically designed covered trucks need to be used.</p> <p>Tractor trolleys with box type cover on top with hydraulic unloading system need only to be deployed for transportation of dry or wet fly ash, while traversing through habilitated areas otherwise, tractor trolleys suitably covered with good quality of tarpaulin (made of HDPE) could be allowed to transport fly ash for shorter distance say upto a distance of about 10 kms.</p>	Complied.
20	<p>Cement and asbestos manufacturers should mechanically design covered trucks and provided with automatic loading and unloading through compressor/ vacuum pumps mounted on the tankers need only to be used./ Special designed railways wagons similar to Bulklers/ Tankers need to be used for transportation.</p>	Complied.
21	<p>Road Construction and filling of low lying area users should have used Tankers/ Bulklers or mechanically designed covered Trucks Need to be used.</p>	Complied.

10 March 2022

To,
Jt. Chief Controller of Explosive Office,
8th Floor, Yashkamal Building,
Opp. MS Univercity,
Sayajigunj.
Vadodara.

Sub :- Surrender of our petroleum storage license no P/WC/GJ/15/2570(P369856) valid up to 31/12/2028.

Respected Sir,

We are holding a petroleum storage license to store petroleum class A & B in storage tanks vide license no P/WC/GJ/15/2570(P369856) in the name of Aarti Industries Limited. at this stage we are not using/ store any petroleum product in our said premises, kindly cancel our said petroleum storage license for that formalities we are surrender our Original petroleum storage license along with its approved plan.

Kindly do the needful.

Thanking you,
Very truly yours

Encl.
Original petroleum storage license no P/WC/GJ/15/2570(P369856) in form XV along with its approved plan.

Date: 10/03/2022

To,
Dy. Director Industrial safety and Health,
Kanbivaga, Bahumali Building,
Bharuch.

Subject: Submission of Onsite / Offsite Emergency Plan

Respected sir,

With reference to the above subject, We are submitting revised Onsite / Offsite Emergency Plan. please find herewith revised Onsite / Offsite Emergency plan Jan 2022.

For Aarti Industries Limited, Dahej

Sandip Parekh
Authorized Signatory


Senior Clerk
Deputy Director
Industrial Safety & Health;
BHARUCH 15-3-22



Agreement between of Baroda Heart Multispeciality Hospital, Bharuch & Aarti Industries Limited, Dahej (Zone III)

This agreement is between Baroda Heart Multispeciality Hospital, Bharuch and Aarti Industries Limited, Dahej (Zone III) on 1st September 2019.

Terms and condition of the agreement is as below:

- Hospital hereby undertakes to extend its services (OPD/IPD/emergency/medical & surgical treatment including Laboratory investigations & pharmacy expanses) on credit basis to the persons designated by Aarti Industries Limited, Dahej (Zone III) .
- Prior to sending patient at hospital company personal will telephonically communicate with concern person of the hospital (Details are attached).
- Patient shall show ID card at the hospital provided by Aarti Industries Limited at the time of admission or consultation. Company HR department or Factory Medical Officer will communicate through mail for treatment on credit basis within 24 hours in case of admission.
- The company will make the payment within twenty five working days after the discharge of the patients.(Scan copy of the bill will be e-mailed to company immediately on discharge & Hard copy of the bill will be couriered at your plant)

Following are the authorized person to call in case of seeking medical services:

Aarti Industries Limited, Dahej (Zone III):

Sr No	Name	Designation	Contact No	Email ID
1	Mr. Sandip Parekh	Division Head	9727720802	sandip.parekh@aarti-industries.com
2	Mr. Ramesh Chakrapani	Zone Project Head	7575007385	ramesh.chakrapani@aarti-industries.com
3	Mr. Alkesh Rana	Zone HR Head	8238088440	alkesh.rana@aarti-industries.com
4	Mr. Vilas Gaurav	Zone Safety Head	9099005387	vilas.gaurav@aarti-industries.com
5	Mr. Atul Dave	Sr. Manager - Safety	9898997921	atul.dave@aarti-industries.com
6	Dr. Sanjay Hansoti	Factory Medical officer	9904706759	sanjay.hansoti@aarti-industries.com

www.aarti-industries.com | CIN: L24110GJ1984PLC007301

Regd. Office : Plot No. 801, 801/23, IIRd Phase, GIDC Vapi-396195, Dist- Valsad, INDIA. T : 0260-2400366.


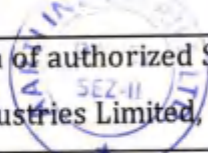
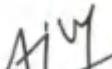

Factory : Plot No. Z/103/H, Dahej Sez II, Tal. Vagara, Dist. Bharuch, Gujarat -392130, INDIA.

Admin. Office : 71, Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (W), Mumbai - 400080, INDIA.

<https://docs.google.com/document/d/1CqV2SxndexjMrCHWQVjHjwYtUjYhY8PE1CqzJ1tA/edit> | P : 022-87978668, F : 022-2565 3234 | E : info@aarti-industries.com

**Baroda Heart Hospital, Bharuch:**

Sr No	Name	Designation	Contact No	Email ID
1	Mr. Meet Shah	Business Development Officer	9727746344	mkt-bhmsh@bhirc.com
2	Mr. Ajay Secretary	Unit Head	9727763817	unithead-bhmsh@bhirc.com
3	Ms. Mayuri Rana	Operation Manager	7405411258	Operations-bhmsh@bhirc.com

 	 
Name & Sign of authorized Signatory Aarti Industries Limited, Dahej	Name & Sign of authorized Signatory Baroda Heart Multispeciality Hospital, Bharuch

Date:

Place:



Agreement between of Sunshine Global Hospitals, Bharuch & Aarti Industries Limited, Dahej (Zone III)

This agreement is between Sunshine Global Hospitals, Bharuch and Aarti Industries Limited, Dahej (Zone III) on 1st September 2019.

Terms and condition of the agreement is as below:

- Hospital hereby undertakes to extend its services (OPD/IPD/emergency/medical & surgical treatment including Laboratory investigations & pharmacy expenses) on credit basis to the persons designated by Aarti Industries Limited, Dahej (Zone III) ..
- Prior to sending patient at hospital company personal will telephonically communicate with concern person of the hospital (Details are attached).
- Patient shall show ID card at the hospital provided by Aarti Industries Limited at the time of admission or consultation. Company HR department or Factory Medical Officer will communicate through mail for treatment on credit basis within 24 hours in case of admission.
- The company will make the payment within twenty five working days after the discharge of the patients.(Scan copy of the bill will be e-mailed to company immediately on discharge & Hard copy of the bill will be couriered at your plant)

Following are the authorized person to call in case of seeking medical services:

Aarti Industries Limited, Dahej (Zone III):

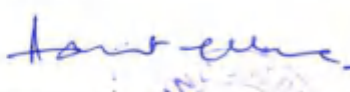

Sr No	Name	Designation	Contact No	Email ID
1	Mr. Sandip Parekh	Division Head	9727720802	sandip.parekh@aarti-industries.com
2	Mr. Ramesh Chakrapani	Zone Project Head	7575007385	ramesh.chakrapani@aarti-industries.com
3	Mr. Alkesh Rana	Zone HR Head	8238088440	alkesh.rana@aarti-industries.com
4	Mr. Vilas Gaurav	Zone Safety Head	9099005387	vilas.gaurav@aarti-industries.com
5	Mr. Atul Dave	Sr. Manager - Safety	9898997921	atul.dave@aarti-industries.com
6	Dr. Sanjay Hansoti	Factory Medical officer	9904706759	sanjay.hansoti@aarti-industries.com



**AARTI
INDUSTRIES
LIMITED**

Sunshine Global Hospital, Bharuch:

Sr No	Name	Designation	Contact No	Email ID
1	Mr. Jayesh Gohil	Business Development	8980006817	marketing.bharuch@sunshineglobalhospitals.com
2	Mr. Ravi Patel	Head Operation & Marketing	8758780000	ravi.patel@sunshineglobalhospitals.com

	
Name & Sign of authorized Signatory Aarti Industries Limited, Dahej	Name & Sign of authorized Signatory Sunshine Global Hospital, Bharuch

Date:

Place:

www.aarti-industries.com | CIN: L24110GJ1984PLC007301

Regd. Office : Plot No. 801, 801/23, Illrd Phase, GIDC Vapi-396195, Dist- Valsad. INDIA. T : 0260-2400366.

Factory : Plot No. Z/103/H, Dahej Sez II, Tal. Vagara, Dist. Bharuch, Gujarat -392130. INDIA.

Admin. Office : 71, Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (W), Mumbai - 400080, INDIA.

<https://docs.google.com/document/d/1c852567Df7vGopfrd8pKYDqStvg2K4p0t4k01w460/edit> | info@aarti-industries.com



**AARTI
INDUSTRIES
LIMITED**

12th Jan, 2023
27

To,
The Dy.Executive Eng.(Water Supply)
GIDC
Bharuch

Sub: Water Quantity reservation for the year 2023-24

Respected Sir

We are having a GIDC water connection with the name of Aarti Industries LTD. Dahej SEZ.

We have booked water reservations from Apr'23 to Mar'24 **1186.5 M3/day**

We look forward to your kind cooperation and support

Attached here with water reservation letter duly notarised

Thanking you.

For, Aarti Industries Limited.

R.D. Patil

Authorized Signatory.



Received Post
Date: 27/01/23

(B)

Registry Branch
GIDC Bharuch

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/103/H, Dahej Sez II, Tal. Vagara, Dist. Bharuch, Gujarat -392130. INDIA.

Admin. Office : 71, Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (W), Mumbai - 400080, INDIA.
T : 022-67976666. F : 022-2565 3234 | E : info@aarti-industries.com

Water Reservation for the Financial Year 2023-24



We Aarti Industries Limited, Dahej (Plot no. Z/103/H) hereby wish to Reserve the quantity of water to be booked with the irrigation Department for the year 2023-2024.

Sr.No.	Name of Industry with Plot No.	Ultimate Water demand as per GIDC Agreement In KLPD	Water Quantity Booked in Last Financial year 2022-23 with irrigation dep't in KLPD	Reservation of Annual water Qty. with irrigation dep't. For Financial Year 2023-24 (from 1 st April 2023 to 31th March 2024)
1	Plot no: Z-103/H, Dahej SEZ-II, Ta. Vagara, Dist. Bharuch, Gujarat	1186.5	800	1186.5 KL/Day

We are aware that the reservation quantity will not change throughout the year (from 1st April 2023 to 31th March 2024) with SSNNL/Irrigation department so if any penalty is imposed by SSNNL / Irrigation department as per book quantity, then same will be proportionally recovered from industries who are responsible for the penalty.

2. **"BORE IS NOT DRILLED IN THE PREMISES ALLOWED TO US. IF BORE IS FOUND ON INSPECTION ON OUR ALLOTTED PREMISES, LEGAL ACTION WHAT EVER TAKEN BY GIDC, SHALL BE BINDING TO US. WE SHALL SUBMIT DECLARATION IN SUBJECT MATTER EVERY YEAR"**

3. Our present GPCB consent is enclosed here with duly attested bearing No. **AWH-112729** dtd. **06/05/2021** which shows the restriction to use the quantity of water as **1250 M3** per day and the quantity of effluent as **165.4 M3** per day. The GPCB consent is valid up to **19/05/2028** (if not applicable, please submit undertaking duly notarized. Failing which reservation quantity shall be considered as **"Zero"**)

Place: Dahej
Date: 20/11/23

R. Patel
Sign & Seal of Authorized Person

Authorized Person: **Rikesh Patel** Designation: Chief Manager- Operation
Mobile No: 7573955263 Mail ID: rikesh.patel@aarti-industries.com
Telephone: Fax No:

SIGNED BEFORE ME
[Signature]
Notary
B. A. PATEL
Ankleshwar

48/23
20/11/23

2.0 STACK MONITORING REPORT



Period: December - 2023

FOR

**M/s. Aarti Industries Limited. (Unit - 1)
(Neo 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 Website : www.uerl.in

MOEF,DC (GOI) Recognized Environmental
Laboratory under the EPA 1986 (31.03.2023 to 22.09.2024)

QC/NABET Accredited QA & QW
Consultant Organization

CPCL Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT

STACK MONITORING

Test Report No.	UERL/23/12/AIL-1/S-006	Report Issue Date	04/01/2024
Service Request form No.	UERL/AIR/D/SRF/12/S-006	Service Request Date	27/12/2023
Sample ID No.	UERL/AIR/D/ID/S-23/12/006	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/12/006
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit - 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	27/12/2023	Date of Testing	28/12/2023
Stack Sampling Attached to	Scrubber Attached to Hydrolysis Process		
Fuel Used	--		
Air Pollution Control Device	Caustic Scrubber		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No	UERL-D/AIR/HDS/01		
Instrument Name	Handy Sampler	Serial Number	91-I-19
Calibration Date	03/03/2023	Next Calibration Due On	02/03/2024

➤ **General Stack Monitoring Observation**

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

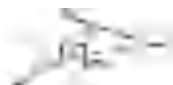
➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Hydrochloric Acid as HCl	mg/Nm ³	BDL (MDL:1.0)	20	Argentometric Method
2.	VOCS	PPM	3.2	**	GC Method

Note: BDL: Below Detection Limit.

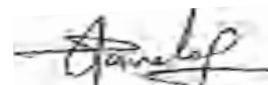
***** End of Report *****

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 - 1)
(Neo 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 Website : www.uerl.in

MOEF,DC (GOI) - Recognized Environmental
Laboratory under the EPA 1986 (31.03.2023 to 22.09.2024)

QC/NABET Accredited QA & QW
Consultant Organization

CPCL Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
STACK MONITORING

Test Report No.	UERL/24/02/AIL-1/S-006	Report Issue Date	05/03/2024
Service Request form No.	UERL/AIR/D/SRF/02/S-006	Service Request Date	27/02/2024
Sample ID No.	UERL/AIR/D/ID/S-24/02/006	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/02/006
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	27/02/2024	Date of Testing	28/02/2024
Stack Sampling Attached to	Scrubber Attached to Hydrolysis Process		
Fuel Used	--		
Air Pollution Control Device	Caustic Scrubber		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No	UERL-D/AIR/HDS/01		
Instrument Name	Handy Sampler	Serial Number	91-I-19
Calibration Date	03/03/2023	Next Calibration Due On	02/03/2024

➤ **General Stack Monitoring Observation**

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

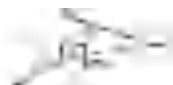
➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Hydrochloric Acid as HCl	mg/Nm ³	BDL (MDL:1.0)	20	Argentometric Method
2.	VOCS	PPM	3.2	**	GC Method

Note: BDL: Below Detection Limit.


***** 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 – 1)
(Neo 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 - 396 196, Gujarat, India
Phone : +91 260 2433986 / 2425810
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) - Recognized Environmental
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QC/NABFI Accredited EIA & EIV
Consultant Organization

GRCA Recognized Environmental
Auditor (SEZ & DUF-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
STACK MONITORING

Test Report No.	UERL/24/01/AIL-1/S-006	Report Issue Date	05/02/2024
Service Request form No.	UERL/AIR/D/SRF/01/S-006	Service Request Date	24/01/2023
Sample ID No.	UERL/AIR/D/ID/S-24/01/006	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/01/006
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	24/01/2023	Date of Testing	25/01/2023
Stack Sampling Attached to	Scrubber Attached to Hydrolysis Process		
Fuel Used	--		
Air Pollution Control Device	Caustic Scrubber		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No	UERL-D/AIR/HDS/01		
Instrument Name	Handy Sampler	Serial Number	91-I-19
Calibration Date	03/03/2023	Next Calibration Due On	02/03/2024

➤ **General Stack Monitoring Observation**

Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	11
2.	Ambient Temperature	°C	30

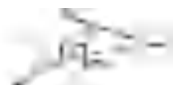
➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Hydrochloric Acid as HCl	mg/Nm ³	BDL (MDL:1.0)	20	Argentometric Method
2.	VOCS	PPM	3.4	**	GC Method

Note: BDL: Below Detection Limit.

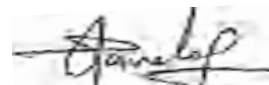
***** End of Report *****

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 - 1)
(Neo 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 Website : www.uerl.in

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Laboratory under the EPA 1986 (31.03.2023 to 22.09.2024)

QC/NABET Accredited QA & QW
Consultant Organization

CPCL Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
STACK MONITORING

Test Report No.	UERL/24/03/AIL-1/S-005	Report Issue Date	03/04/2024
Service Request form No.	UERL/AIR/D/SRF/03/S-005	Service Request Date	20/03/2023
Sample ID No.	UERL/AIR/D/ID/S-24/03/005	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/03/005
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	20/03/2023	Date of Testing	21/03/2023
Stack Sampling Attached to	Scrubber Attached to Hydrolysis Process		
Fuel Used	--		
Air Pollution Control Device	Caustic Scrubber		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No	UERL-D/AIR/HDS/01		
Instrument Name	Handy Sampler	Serial Number	91-I-19
Calibration Date	03/03/2023	Next Calibration Due On	02/03/2024

➤ **General Stack Monitoring Observation**

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

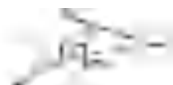
➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Hydrochloric Acid as HCl	mg/Nm ³	BDL (MDL:1.0)	20	Argentometric Method
2.	VOCS	PPM	3.1	**	GC Method

Note: BDL: Below Detection Limit.

***** 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 - 1)
(Neo 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 Website : www.uerl.in

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Consultant Organization

CPCB Recognized Environmental
Auditor (Schedule-II)

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Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
STACK MONITORING

Test Report No.	UERL/23/11/AIL-1/S-006	Report Issue Date	04/12/2023
Service Request form No.	UERL/AIR/D/SRF/11/S-006	Service Request Date	23/11/2023
Sample ID No.	UERL/AIR/D/ID/S-23/11/006	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/11/006
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	23/11/2023	Date of Testing	24/11/2023
Stack Sampling Attached to	Scrubber Attached to Hydrolysis Process		
Fuel Used	--		
Air Pollution Control Device	Caustic Scrubber		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No	UERL-D/AIR/HDS/01		
Instrument Name	Handy Sampler	Serial Number	91-I-19
Calibration Date	03/03/2023	Next Calibration Due On	02/03/2024

➤ **General Stack Monitoring Observation**

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

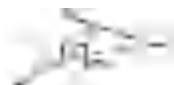
➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Hydrochloric Acid as HCl	mg/Nm ³	BDL (MDL:1.0)	20	Argentometric Method
2.	VOCS	PPM	2.6	**	GC Method

Note: BDL: Below Detection Limit.

***** 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 - 1)
(Neo 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
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QC/NABET Accredited QA & QW
Consultant Organization

CPCL Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
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ISO 45001:2018
Certified Company

TEST REPORT
STACK MONITORING

Test Report No.	UERL/23/10/AIL-1/S-005	Report Issue Date	06/11/2023
Service Request form No.	UERL/AIR/D/SRF/10/S-005	Service Request Date	18/10/2023
Sample ID No.	UERL/AIR/D/ID/S-23/10/005	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/10/005
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	18/10/2023	Date of Testing	19/10/2023
Stack Sampling Attached to	Scrubber Attached to Hydrolysis Process		
Fuel Used	--		
Air Pollution Control Device	Caustic Scrubber		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No	UERL-D/AIR/HDS/01		
Instrument Name	Handy Sampler	Serial Number	91-I-19
Calibration Date	03/03/2023	Next Calibration Due On	02/03/2024

➤ **General Stack Monitoring Observation**

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

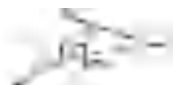
➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of Measurement	Result	GPCB Limits	Test Method
1.	Hydrochloric Acid as HCl	mg/Nm ³	BDL (MDL:1.0)	20	Argentometric Method
2.	VOCS	PPM	2.3	**	GC Method

Note: BDL: Below Detection Limit.

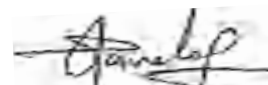
***** End of Report *****

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 - 1)
(Neo 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
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Certified Company

TEST REPORT
STACK MONITORING

Test Report No.	UERL/23/12/AIL-1/S-001	Report Issue Date	04/01/2024
Service Request form No.	UERL/AIR/D/SRF/12/S-001	Service Request Date	27/12/2023
Sample ID No.	UERL/AIR/D/ID/S-21/10/001	Field Data Sheet No.	UERL/AIR/D/FDS/S-21/10/001
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	27/12/2023	Date of Testing	28/12/2023
Stack Sampling Attached to	Boiler-1 (14 TPH) & Thermic Fluid Heater (6 Lac Kcal/Hr) (Common Chimney)		
Air Pollution Control Device	ESP + Lime Dosing with Coal		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

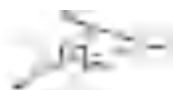
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	42
2.	Stack Dia	mm	1200
3.	Stack Area	m ²	1.1314
4.	Ambient Temperature	°C	28
5.	Flue Gas Temperature	°C	136
6.	Exit Gas Velocity	m/s	6.8
7.	Exit Gas Flow	m ³ /h	19736.8

➤ **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 ³	20	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	16	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	32	50	IS 11255(Part 7)
4.	VOCs	ppm	2.6	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT

STACK MONITORING

Test Report No.	UERL/23/12/AIL-1/S-002	Report Issue Date	04/01/2024
Service Request form No.	UERL/AIR/D/SRF/12/S-002	Service Request Date	27/12/2023
Sample ID No.	UERL/AIR/D/ID/S-23/12/002	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/12/002
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	27/12/2023	Date of Testing	28/12/2023
Stack Sampling Attached to	Boiler-2 (67 TPH)		
Air Pollution Control Device	ESP + Lime Dosing with Coal.		
Fuel Used	Coal		

➤ Details of Instrument Used for Monitoring

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ General Stack Monitoring Observation

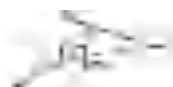
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	M	76
2.	Stack Dia	Mm	3600
3.	Stack Area	m ²	10.1736
4.	Ambient Temperature	°C	28
5.	Flue Gas Temperature	°C	144
6.	Exit Gas Velocity	m/s	6.5
7.	Exit Gas Flow	Nm ³ /h	166390.1

➤ 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 ³	80	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	76	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	38	50	IS 11255(Part 7)
4.	VOCs	ppm	3.5	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
STACK MONITORING

Test Report No.	UERL/23/12/AIL-1/S-003	Report Issue Date	04/01/2024
Service Request form No.	UERL/AIR/D/SRF/12/S-003	Service Request Date	27/12/2023
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 Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	27/12/2023	Date of Testing	28/12/2023
Stack Sampling Attached to	D.G. Set - 1 (1000 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

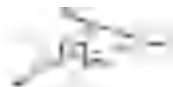
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	28
5.	Flue Gas Temperature	°C	121
6.	Exit Gas Velocity	m/s	10.8
7.	Exit Gas Flow	Nm ³ /h	1458.2

➤ **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 ³	72	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	20	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	37	50	IS 11255(Part 7)
4.	VOCs	ppm	3.3	**	GC Method

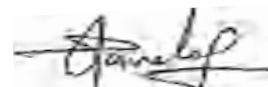
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT

STACK MONITORING

Test Report No.	UERL/23/12/AIL-1/S-004	Report Issue Date	04/01/2024
Service Request form No.	UERL/AIR/D/SRF/12/S-004	Service Request Date	27/12/2023
Sample ID No.	UERL/AIR/D/ID/S-23/12/004	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/12/004
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	27/12/2023	Date of Testing	28/12/2023
Stack Sampling Attached to	D.G. Set – 2 (1000 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ General Stack Monitoring Observation

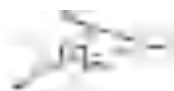
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	28
5.	Flue Gas Temperature	°C	120
6.	Exit Gas Velocity	m/s	10.2
7.	Exit Gas Flow	Nm ³ /h	1380.7

➤ 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 ³	75	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	22	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	35	50	IS 11255(Part 7)
4.	VOCs	ppm	2.4	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT

STACK MONITORING

Test Report No.	UERL/23/12/AIL-1/S-005	Report Issue Date	04/01/2024
Service Request form No.	UERL/AIR/D/SRF/12/S-005	Service Request Date	27/12/2023
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 Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	27/12/2023	Date of Testing	28/12/2023
Stack Sampling Attached to	D.G. Set – 3 (1500 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ General Stack Monitoring Observation

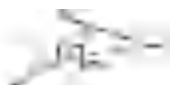
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	28
5.	Flue Gas Temperature	°C	122
6.	Exit Gas Velocity	m/s	10.6
7.	Exit Gas Flow	Nm ³ /h	1427.6

➤ 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 ³	70	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	18	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	33	50	IS 11255(Part 7)
4.	VOCs	ppm	2.5	**	GC Method

***** 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 - 1)
(Neo 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
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CPCL Recognized Environmental
Auditor (Schedule-II)

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Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
STACK MONITORING

Test Report No.	UERL/24/02/AIL-1/S-001	Report Issue Date	05/03/2024
Service Request form No.	UERL/AIR/D/SRF/02/S-001	Service Request Date	27/02/2024
Sample ID No.	UERL/AIR/D/ID/S-24/10/001	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/10/001
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	27/02/2024	Date of Testing	28/02/2024
Stack Sampling Attached to	Boiler-1 (14 TPH) & Thermic Fluid Heater (6 Lac Kcal/Hr) (Common Chimney)		
Air Pollution Control Device	ESP + Lime Dosing with Coal		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

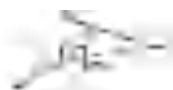
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	42
2.	Stack Dia	mm	1200
3.	Stack Area	m ²	1.1314
4.	Ambient Temperature	°C	29
5.	Flue Gas Temperature	°C	136
6.	Exit Gas Velocity	m/s	6.3
7.	Exit Gas Flow	m ³ /h	18346.3

➤ **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 ³	24	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	18	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	36	50	IS 11255(Part 7)
4.	VOCs	ppm	3.1	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
STACK MONITORING

Test Report No.	UERL/24/02/AIL-1/S-002	Report Issue Date	05/03/2024
Service Request form No.	UERL/AIR/D/SRF/02/S-002	Service Request Date	27/02/2024
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 Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	27/02/2024	Date of Testing	28/02/2024
Stack Sampling Attached to	Boiler-2 (67 TPH)		
Air Pollution Control Device	ESP + Lime Dosing with Coal.		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

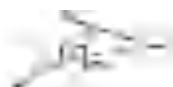
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	M	76
2.	Stack Dia	Mm	3600
3.	Stack Area	m ²	10.1736
4.	Ambient Temperature	°C	29
5.	Flue Gas Temperature	°C	141
6.	Exit Gas Velocity	m/s	6.9
7.	Exit Gas Flow	Nm ³ /h	178500.5

➤ **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 ³	82	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	75	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	33	50	IS 11255(Part 7)
4.	VOCs	ppm	2.5	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
STACK MONITORING

Test Report No.	UERL/24/02/AIL-1/S-003	Report Issue Date	05/03/2024
Service Request form No.	UERL/AIR/D/SRF/02/S-003	Service Request Date	27/02/2024
Sample ID No.	UERL/AIR/D/ID/S-24/02/003	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/02/003
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	27/02/2024	Date of Testing	28/02/2024
Stack Sampling Attached to	D.G. Set - 1 (1000 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

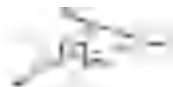
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	29
5.	Flue Gas Temperature	°C	119
6.	Exit Gas Velocity	m/s	10.8
7.	Exit Gas Flow	Nm ³ /h	1470.5

➤ **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 ³	72	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	21	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	35	50	IS 11255(Part 7)
4.	VOCs	ppm	2.7	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT

STACK MONITORING

Test Report No.	UERL/24/02/AIL-1/S-004	Report Issue Date	05/03/2024
Service Request form No.	UERL/AIR/D/SRF/02/S-004	Service Request Date	27/02/2024
Sample ID No.	UERL/AIR/D/ID/S-24/02/004	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/02/004
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	27/02/2024	Date of Testing	28/02/2024
Stack Sampling Attached to	D.G. Set – 2 (1000 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

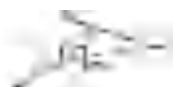
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	29
5.	Flue Gas Temperature	°C	115
6.	Exit Gas Velocity	m/s	11.1
7.	Exit Gas Flow	Nm ³ /h	1526.9

➤ **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 ³	75	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	18	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	34	50	IS 11255(Part 7)
4.	VOCs	ppm	2.4	**	GC Method

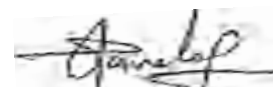
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT

STACK MONITORING

Test Report No.	UERL/24/02/AIL-1/S-005	Report Issue Date	05/03/2024
Service Request form No.	UERL/AIR/D/SRF/02/S-005	Service Request Date	27/02/2024
Sample ID No.	UERL/AIR/D/ID/S-24/02/005	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/02/005
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	27/02/2024	Date of Testing	28/02/2024
Stack Sampling Attached to	D.G. Set – 3 (1500 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ General Stack Monitoring Observation

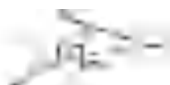
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	29
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	10.6
7.	Exit Gas Flow	Nm ³ /h	1446.9

➤ 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 ³	72	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	21	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	32	50	IS 11255(Part 7)
4.	VOCs	ppm	2.1	**	GC Method

***** 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 – 1)
(Neo 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 - 396 196, Gujarat, India
Phone : +91 260 2433986 / 2425810
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) - Recognized Environmental
Laboratory under the EPA-1986 (31.03.2003 to 22.09.2024)

QC/NABRI Accredited EA & EW
Consultant Organization

GRCA Recognized Environmental
Auditor (SEZ & DUF-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
STACK MONITORING

Test Report No.	UERL/24/01/AIL-1/S-001	Report Issue Date	05/02/2024
Service Request form No.	UERL/AIR/D/SRF/01/S-001	Service Request Date	24/01/2023
Sample ID No.	UERL/AIR/D/ID/S-24/10/001	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/10/001
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	24/01/2023	Date of Testing	25/01/2023
Stack Sampling Attached to	Boiler-1 (14 TPH) & Thermic Fluid Heater (6 Lac Kcal/Hr) (Common Chimney)		
Air Pollution Control Device	ESP + Lime Dosing with Coal		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

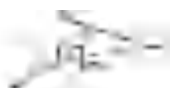
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	42
2.	Stack Dia	mm	1200
3.	Stack Area	m ²	1.1314
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	140
6.	Exit Gas Velocity	m/s	6.5
7.	Exit Gas Flow	m ³ /h	18845.9

➤ **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 ³	26	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	20	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	34	50	IS 11255(Part 7)
4.	VOCs	ppm	3.3	**	GC Method

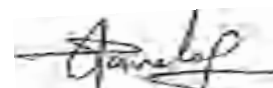
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
STACK MONITORING

Test Report No.	UERL/24/01/AIL-1/S-002	Report Issue Date	05/02/2024
Service Request form No.	UERL/AIR/D/SRF/01/S-002	Service Request Date	24/01/2023
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 Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	24/01/2023	Date of Testing	25/01/2023
Stack Sampling Attached to	Boiler-2 (67 TPH)		
Air Pollution Control Device	ESP + Lime Dosing with Coal.		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

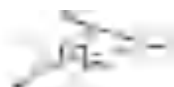
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	M	76
2.	Stack Dia	Mm	3600
3.	Stack Area	m ²	10.1736
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	142
6.	Exit Gas Velocity	m/s	6.7
7.	Exit Gas Flow	Nm ³ /h	173835.9

➤ **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 ³	85	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	78	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	35	50	IS 11255(Part 7)
4.	VOCs	ppm	2.8	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
STACK MONITORING

Test Report No.	UERL/24/01/AIL-1/S-003	Report Issue Date	05/02/2024
Service Request form No.	UERL/AIR/D/SRF/01/S-003	Service Request Date	24/01/2023
Sample ID No.	UERL/AIR/D/ID/S-24/01/003	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/01/003
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	24/01/2023	Date of Testing	25/01/2023
Stack Sampling Attached to	D.G. Set - 1 (1000 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

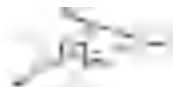
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	122
6.	Exit Gas Velocity	m/s	11.1
7.	Exit Gas Flow	Nm ³ /h	1507.9

➤ **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 ³	75	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	22	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	38	50	IS 11255(Part 7)
4.	VOCs	ppm	3.1	**	GC Method


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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
STACK MONITORING

Test Report No.	UERL/24/01/AIL-1/S-004	Report Issue Date	05/02/2024
Service Request form No.	UERL/AIR/D/SRF/01/S-004	Service Request Date	24/01/2023
Sample ID No.	UERL/AIR/D/ID/S-24/01/004	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/01/004
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	24/01/2023	Date of Testing	25/01/2023
Stack Sampling Attached to	D.G. Set – 2 (1000 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

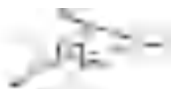
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	10.9
7.	Exit Gas Flow	Nm ³ /h	1495.9

➤ **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 ³	78	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	20	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	36	50	IS 11255(Part 7)
4.	VOCs	ppm	2.8	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT

STACK MONITORING

Test Report No.	UERL/24/01/AIL-1/S-005	Report Issue Date	05/02/2024
Service Request form No.	UERL/AIR/D/SRF/01/S-005	Service Request Date	24/01/2023
Sample ID No.	UERL/AIR/D/ID/S-24/01/005	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/01/005
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	24/01/2023	Date of Testing	25/01/2023
Stack Sampling Attached to	D.G. Set – 3 (1500 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ General Stack Monitoring Observation

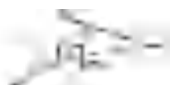
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	120
6.	Exit Gas Velocity	m/s	11.2
7.	Exit Gas Flow	Nm ³ /h	1529.2

➤ 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 ³	74	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	20	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	37	50	IS 11255(Part 7)
4.	VOCs	ppm	3.1	**	GC Method

***** 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 - 1)
(Neo 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 | Website : www.uerl.in

MOEF,DC (GOI) - Recognized Environmental
Laboratory under the EPA 1986 (31.03.2023 to 22.09.2024)

QC/NABET Accredited QA & QW
Consultant Organization

CPCL Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
STACK MONITORING

Test Report No.	UERL/24/03/AIL-1/S-001	Report Issue Date	03/04/2024
Service Request form No.	UERL/AIR/D/SRF/03/S-001	Service Request Date	20/03/2023
Sample ID No.	UERL/AIR/D/ID/S-24/03/001	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/03/001
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	20/03/2023	Date of Testing	21/03/2023
Stack Sampling Attached to	Boiler-1 (14 TPH) & Thermic Fluid Heater (6 Lac Kcal/Hr) (Common Chimney)		
Air Pollution Control Device	ESP + Lime Dosing with Coal		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

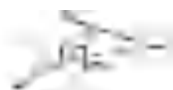
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	42
2.	Stack Dia	mm	1200
3.	Stack Area	m ²	1.1314
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	137
6.	Exit Gas Velocity	m/s	6.8
7.	Exit Gas Flow	m ³ /h	19929.9

➤ **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 ³	24	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	18	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	33	50	IS 11255(Part 7)
4.	VOCs	ppm	2.8	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
STACK MONITORING

Test Report No.	UERL/24/03/AIL-1/S-002	Report Issue Date	03/04/2024
Service Request form No.	UERL/AIR/D/SRF/03/S-002	Service Request Date	20/03/2023
Sample ID No.	UERL/AIR/D/ID/S-24/03/002	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/03/002
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	20/03/2023	Date of Testing	21/03/2023
Stack Sampling Attached to	D.G. Set - 1 (1000 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

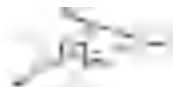
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	10.6
7.	Exit Gas Flow	Nm ³ /h	1459.8

➤ **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 ³	72	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	20	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	34	50	IS 11255(Part 7)
4.	VOCs	ppm	2.5	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT

STACK MONITORING

Test Report No.	UERL/24/03/AIL-1/S-003	Report Issue Date	03/04/2024
Service Request form No.	UERL/AIR/D/SRF/03/S-003	Service Request Date	20/03/2023
Sample ID No.	UERL/AIR/D/ID/S-24/03/003	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/03/003
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	20/03/2023	Date of Testing	21/03/2023
Stack Sampling Attached to	D.G. Set – 2 (1000 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ General Stack Monitoring Observation

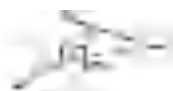
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	115
6.	Exit Gas Velocity	m/s	10.5
7.	Exit Gas Flow	Nm ³ /h	1457.2

➤ 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 ³	75	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	22	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	38	50	IS 11255(Part 7)
4.	VOCs	ppm	3.1	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT

STACK MONITORING

Test Report No.	UERL/24/03/AIL-1/S-004	Report Issue Date	03/04/2024
Service Request form No.	UERL/AIR/D/SRF/03/S-004	Service Request Date	20/03/2023
Sample ID No.	UERL/AIR/D/ID/S-24/03/004	Field Data Sheet No.	UERL/AIR/D/FDS/S-24/03/004
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	20/03/2023	Date of Testing	21/03/2023
Stack Sampling Attached to	D.G. Set – 3 (1500 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ General Stack Monitoring Observation

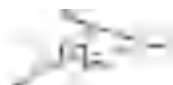
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	119
6.	Exit Gas Velocity	m/s	10.8
7.	Exit Gas Flow	Nm ³ /h	1483.6

➤ 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 ³	68	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	18	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	32	50	IS 11255(Part 7)
4.	VOCs	ppm	2.2	**	GC Method

***** 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 - 1)
(Neo 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 Website : www.uerl.in

MOEF,DC (GOI) Recognized Environmental
Laboratory under the EPA 1986 (31.03.2023 to 22.09.2024)

QC/NABET Accredited QA & QW
Consultant Organization

CPCL Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
STACK MONITORING

Test Report No.	UERL/23/11/AIL-1/S-001	Report Issue Date	04/12/2023
Service Request form No.	UERL/AIR/D/SRF/11/S-001	Service Request Date	23/11/2023
Sample ID No.	UERL/AIR/D/ID/S-21/10/001	Field Data Sheet No.	UERL/AIR/D/FDS/S-21/10/001
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	23/11/2023	Date of Testing	24/11/2023
Stack Sampling Attached to	Boiler-1 (14 TPH) & Thermic Fluid Heater (6 Lac Kcal/Hr) (Common Chimney)		
Air Pollution Control Device	ESP + Lime Dosing with Coal		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

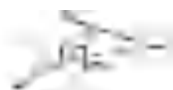
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	42
2.	Stack Dia	mm	1200
3.	Stack Area	m ²	1.1314
4.	Ambient Temperature	°C	28
5.	Flue Gas Temperature	°C	134
6.	Exit Gas Velocity	m/s	7.3
7.	Exit Gas Flow	m ³ /h	21422.7

➤ **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 ³	24	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	19	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	35	50	IS 11255(Part 7)
4.	VOCs	ppm	2.1	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
STACK MONITORING

Test Report No.	UERL/23/11/AIL-1/S-002	Report Issue Date	04/12/2023
Service Request form No.	UERL/AIR/D/SRF/11/S-002	Service Request Date	23/11/2023
Sample ID No.	UERL/AIR/D/ID/S-23/11/002	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/11/002
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	23/11/2023	Date of Testing	24/11/2023
Stack Sampling Attached to	Boiler-2 (67 TPH)		
Air Pollution Control Device	ESP + Lime Dosing with Coal.		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

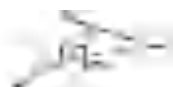
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	M	76
2.	Stack Dia	Mm	3600
3.	Stack Area	m ²	10.1736
4.	Ambient Temperature	°C	27
5.	Flue Gas Temperature	°C	136
6.	Exit Gas Velocity	m/s	6.2
7.	Exit Gas Flow	Nm ³ /h	162266.0

➤ **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 ³	72	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	81	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	32	50	IS 11255(Part 7)
4.	VOCs	ppm	2.3	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
STACK MONITORING

Test Report No.	UERL/23/11/AIL-1/S-003	Report Issue Date	04/12/2023
Service Request form No.	UERL/AIR/D/SRF/11/S-003	Service Request Date	23/11/2023
Sample ID No.	UERL/AIR/D/ID/S-23/11/003	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/11/003
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	23/11/2023	Date of Testing	24/11/2023
Stack Sampling Attached to	D.G. Set - 1 (1000 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

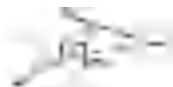
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	27
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	10.4
7.	Exit Gas Flow	Nm ³ /h	1418.9

➤ **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 ³	76	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	23	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	36	50	IS 11255(Part 7)
4.	VOCs	ppm	2.2	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT

STACK MONITORING

Test Report No.	UERL/23/11/AIL-1/S-004	Report Issue Date	04/12/2023
Service Request form No.	UERL/AIR/D/SRF/11/S-004	Service Request Date	23/11/2023
Sample ID No.	UERL/AIR/D/ID/S-23/11/004	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/11/004
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	23/11/2023	Date of Testing	24/11/2023
Stack Sampling Attached to	D.G. Set – 2 (1000 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ General Stack Monitoring Observation

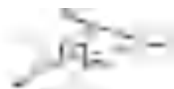
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	27
5.	Flue Gas Temperature	°C	116
6.	Exit Gas Velocity	m/s	9.7
7.	Exit Gas Flow	Nm ³ /h	1330.2

➤ 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 ³	73	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	20	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	34	50	IS 11255(Part 7)
4.	VOCs	ppm	2.1	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT

STACK MONITORING

Test Report No.	UERL/23/11/AIL-1/S-005	Report Issue Date	04/12/2023
Service Request form No.	UERL/AIR/D/SRF/11/S-005	Service Request Date	23/11/2023
Sample ID No.	UERL/AIR/D/ID/S-23/11/005	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/11/005
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	23/11/2023	Date of Testing	24/11/2023
Stack Sampling Attached to	D.G. Set – 3 (1500 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ General Stack Monitoring Observation

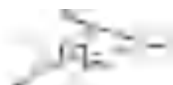
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	27
5.	Flue Gas Temperature	°C	123
6.	Exit Gas Velocity	m/s	10.4
7.	Exit Gas Flow	Nm ³ /h	1401.0

➤ 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 ³	68	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	16	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	31	50	IS 11255(Part 7)
4.	VOCs	ppm	2.2	**	GC Method

***** 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 - 1)
(Neo 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 Website : www.uerl.in

MOEF,DC (GOI) Recognized Environmental
Laboratory under the EPA 1986 (31.03.2023 to 22.09.2024)

QC/NABET Accredited QA & QW
Consultant Organization

CPCL Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
STACK MONITORING

Test Report No.	UERL/23/10/AIL-1/S-001	Report Issue Date	06/11/2023
Service Request form No.	UERL/AIR/D/SRF/10/S-001	Service Request Date	18/10/2023
Sample ID No.	UERL/AIR/D/ID/S-21/10/001	Field Data Sheet No.	UERL/AIR/D/FDS/S-21/10/001
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	18/10/2023	Date of Testing	19/10/2023
Stack Sampling Attached to	Boiler-1 (14 TPH) & Thermic Fluid Heater (6 Lac Kcal/Hr) (Common Chimney)		
Air Pollution Control Device	ESP + Lime Dosing with Coal		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

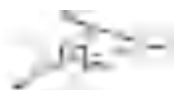
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	42
2.	Stack Dia	mm	1200
3.	Stack Area	m ²	1.1314
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	138
6.	Exit Gas Velocity	m/s	7.5
7.	Exit Gas Flow	m ³ /h	21940.2

➤ **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 ³	22	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	18	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	38	50	IS 11255(Part 7)
4.	VOCs	ppm	2.2	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
STACK MONITORING

Test Report No.	UERL/23/10/AIL-1/S-006	Report Issue Date	06/11/2023
Service Request form No.	UERL/AIR/D/SRF/10/S-006	Service Request Date	18/10/2023
Sample ID No.	UERL/AIR/D/ID/S-23/10/006	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/10/006
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	18/10/2023	Date of Testing	19/10/2023
Stack Sampling Attached to	Boiler-2 (67 TPH)		
Air Pollution Control Device	ESP + Lime Dosing with Coal.		
Fuel Used	Coal		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL-D/AIR/SMK/01		
Instrument Name	Stack Monitoring Kit, VSS1	Serial Number	467 DTJ 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

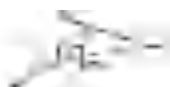
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	M	76
2.	Stack Dia	Mm	3600
3.	Stack Area	m ²	10.1736
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	140
6.	Exit Gas Velocity	m/s	5.5
7.	Exit Gas Flow	Nm ³ /h	143977.0

➤ **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 ³	75	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	86	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	35	50	IS 11255(Part 7)
4.	VOCs	ppm	2.5	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
STACK MONITORING

Test Report No.	UERL/23/10/AIL-1/S-002	Report Issue Date	06/11/2023
Service Request form No.	UERL/AIR/D/SRF/10/S-002	Service Request Date	18/10/2023
Sample ID No.	UERL/AIR/D/ID/S-23/10/002	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/10/002
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	18/10/2023	Date of Testing	19/10/2023
Stack Sampling Attached to	D.G. Set - 1 (1000 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ **General Stack Monitoring Observation**

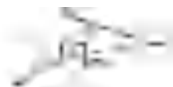
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	120
6.	Exit Gas Velocity	m/s	10.8
7.	Exit Gas Flow	Nm ³ /h	1480.6

➤ **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 ³	78	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	20	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	35	50	IS 11255(Part 7)
4.	VOCs	ppm	2.3	**	GC Method

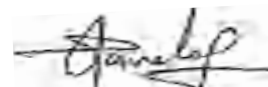
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT

STACK MONITORING

Test Report No.	UERL/23/10/AIL-1/S-003	Report Issue Date	06/11/2023
Service Request form No.	UERL/AIR/D/SRF/10/S-003	Service Request Date	18/10/2023
Sample ID No.	UERL/AIR/D/ID/S-23/10/003	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/10/003
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	18/10/2023	Date of Testing	19/10/2023
Stack Sampling Attached to	D.G. Set – 2 (1000 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ General Stack Monitoring Observation

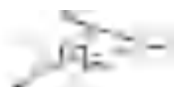
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	10.8
7.	Exit Gas Flow	Nm ³ /h	1488.2

➤ 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 ³	76	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	21	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	37	50	IS 11255(Part 7)
4.	VOCs	ppm	2.2	**	GC Method

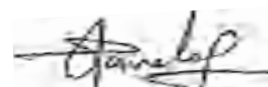
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

TEST REPORT

STACK MONITORING

Test Report No.	UERL/23/10/AIL-1/S-004	Report Issue Date	06/11/2023
Service Request form No.	UERL/AIR/D/SRF/10/S-004	Service Request Date	18/10/2023
Sample ID No.	UERL/AIR/D/ID/S-23/10/004	Field Data Sheet No.	UERL/AIR/D/FDS/S-23/10/004
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD. (Unit – 1) Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.		
Date of Sampling	18/10/2023	Date of Testing	19/10/2023
Stack Sampling Attached to	D.G. Set – 3 (1500 KVA)		
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 15
Calibration Date	21/06/2023	Next Calibration Due On	20/06/2024

➤ General Stack Monitoring Observation

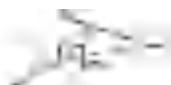
Sr. No.	Description	Unit of Measurement	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	122
6.	Exit Gas Velocity	m/s	11.1
7.	Exit Gas Flow	Nm ³ /h	1514.0

➤ 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 ³	70	150	IS 11255(Part 1)
2.	Sulphur Dioxide	ppm	17	100	IS 11255(Part 2)
3.	Oxide of Nitrogen	ppm	32	50	IS 11255(Part 7)
4.	VOCs	ppm	2.3	**	GC Method

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

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



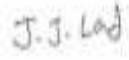
Jaivik S. Tandel
(Manager - Operations)

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-U1-001

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej - 392 130, Gujarat.
2. Name of the Department / Plant: - **Coal Storage**
3. Raw materials, by-products and finished products involved in the process: - **Raw Material & Product- Coal.**
4. Particulars of sampling: - **Work Place Monitoring.**
5. Date of Monitoring: - **27/12/2023**

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 Coal Yard Area	Total Dust	Handy Sampler	01	2.05	2.05	10 mg/m ³	NIOSH0600	05	All Process Activities are Running.		JITEN LAD

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-U1-002

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
2. Name of the Department / Plant: - **MEE Plant**
3. Raw materials, by-products and finished products involved in the process: - Raw Material:1) **Untreated Effluent Water**, 2) Product- **Condensate Water**.
4. Particulars of sampling: - **Work Place Monitoring**.
5. Date of Monitoring: - **27/12/2023**

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	MEE Plant (Ground Floor)	TVOC'S (ppm)	Handy Sampler	01	BDL	BDL	**	GC Method	05	All Process Activities are running.		JITEN LAD
2	MEE Plant (1st Floor)			01	BDL	BDL	**					
3	MEE Plant (2nd Floor)			01	BDL	BDL	**					

NOTE: (1) ** Limit has not been defined as per factory act. (2) BDL- Below Detection Limit.

Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.

Authorized By:



Jaivik S. Tandel

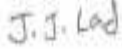
(Manager - Operations)

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-U1-003

1. Name of Industries: M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
2. Name of the Department / Plant: - MEA Plant
3. Raw materials, by-products and finished products involved in the process: - Raw Material:1) --, 2) Product- Ethylation & Propylation Product.
4. Particulars of sampling: - Work Place Monitoring.
5. Date of Monitoring: - 27/12/2023

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	MEA Plant (Ground Floor)	TVOC'S (ppm)	Handy Sampler	01	BDL	BDL	**	GC Method	05	All Process Activities are running.		JITEN LAD
2	MEA Plant (1st Floor)			01	BDL	BDL	**					
3	MEA Plant (2nd Floor)			01	BDL	BDL	**					
4	MEA Plant (Top Floor)			01	BDL	BDL	**					

NOTE: (1) ** Limit has not been defined as per factory act. (2) BDL- Below Detection Limit.

Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.

Authorized By:



Jaivik S. Tandel

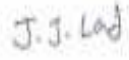
(Manager - Operations)

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/24/02/WAM-AIL-U1-001

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej - 392 130, Gujarat.
2. Name of the Department / Plant: - **Coal Storage**
3. Raw materials, by-products and finished products involved in the process: - **Raw Material & Product- Coal.**
4. Particulars of sampling: - **Work Place Monitoring.**
5. Date of Monitoring: - **27/02/2024**

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 Coal Yard Area	Total Dust	Handy Sampler	01	2.35	2.35	10 mg/m ³	NIOSH0600	05	All Process Activities are Running.		JITEN LAD

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/24/02/WAM-AIL-U1-002

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
2. Name of the Department / Plant: - **MEE Plant**
3. Raw materials, by-products and finished products involved in the process: - Raw Material:1) **Untreated Effluent Water**, 2) **Product- Condensate Water.**
4. Particulars of sampling: - **Work Place Monitoring.**
5. Date of Monitoring: - **27/02/2024**

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	MEE Plant (Ground Floor)	TVOC'S (ppm)	Handy Sampler	01	BDL	BDL	**	GC Method	05	All Process Activities are running.		JITEN LAD
2	MEE Plant (1st Floor)			01	BDL	BDL	**					
3	MEE Plant (2nd Floor)			01	BDL	BDL	**					

NOTE: (1) ** Limit has not been defined as per factory act. (2) BDL- Below Detection Limit.

Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.

Authorized By:



Jaivik S. Tandel

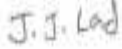
(Manager - Operations)

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/24/02/WAM-AIL-U1-003

1. Name of Industries: M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
2. Name of the Department / Plant: - MEA Plant
3. Raw materials, by-products and finished products involved in the process: - Raw Material:1) --, 2) Product- Ethylation & Propylation Product.
4. Particulars of sampling: - Work Place Monitoring.
5. Date of Monitoring: - 27/02/2024

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	MEA Plant (Ground Floor)	TVOC'S (ppm)	Handy Sampler	01	BDL	BDL	**	GC Method	05	All Process Activities are running.		JITEN LAD
2	MEA Plant (1st Floor)			01	BDL	BDL	**					
3	MEA Plant (2nd Floor)			01	BDL	BDL	**					
4	MEA Plant (Top Floor)			01	BDL	BDL	**					

NOTE: (1) ** Limit has not been defined as per factory act. (2) BDL- Below Detection Limit.

Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.

Authorized By:



Jaivik S. Tandel

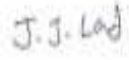
(Manager - Operations)

FORM NO. 37
(Prescribed under Rule 12-B)

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

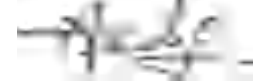
Test Report No. UERL/24/03/WAM-AIL-U1-001

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej - 392 130, Gujarat.
2. Name of the Department / Plant: - **Coal Storage**
3. Raw materials, by-products and finished products involved in the process: - **Raw Material & Product- Coal.**
4. Particulars of sampling: - **Work Place Monitoring.**
5. Date of Monitoring: - **20/03/2024**

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 Coal Yard Area	Total Dust	Handy Sampler	01	3.05	3.05	10 mg/m ³	NIOSH0600	05	All Process Activities are Running.		JITEN LAD

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/24/03/WAM-AIL-U1-002

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
2. Name of the Department / Plant: - **MEE Plant**
3. Raw materials, by-products and finished products involved in the process: - Raw Material:1) **Untreated Effluent Water**, 2) **Product- Condensate Water.**
4. Particulars of sampling: - **Work Place Monitoring.**
5. Date of Monitoring: - **20/03/2024**

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	MEE Plant (Ground Floor)	TVOC'S (ppm)	Handy Sampler	01	BDL	BDL	**	GC Method	05	All Process Activities are running.		JITEN LAD
2	MEE Plant (1st Floor)			01	BDL	BDL	**					
3	MEE Plant (2nd Floor)			01	BDL	BDL	**					

NOTE: (1) ** Limit has not been defined as per factory act. (2) BDL- Below Detection Limit.

Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.

Authorized By:



Jaivik S. Tandel

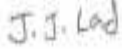
(Manager - Operations)

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/24/03/WAM-AIL-U1-003

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
2. Name of the Department / Plant: - **MEA Plant**
3. Raw materials, by-products and finished products involved in the process: - Raw Material:1) --, 2) Product- **Ethylation & Propylation Product.**
4. Particulars of sampling: - **Work Place Monitoring.**
5. Date of Monitoring: - **20/03/2024**

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	MEA Plant (Ground Floor)	TVOC'S (ppm)	Handy Sampler	01	BDL	BDL	**	GC Method	05	All Process Activities are running.		JITEN LAD
2	MEA Plant (1st Floor)			01	BDL	BDL	**					
3	MEA Plant (2nd Floor)			01	BDL	BDL	**					
4	MEA Plant (Top Floor)			01	BDL	BDL	**					

NOTE: (1) ** Limit has not been defined as per factory act. (2) BDL- Below Detection Limit.

Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.

Authorized By:



Jaivik S. Tandel

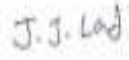
(Manager - Operations)

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-U1-001

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej - 392 130, Gujarat.
2. Name of the Department / Plant: - **Coal Storage**
3. Raw materials, by-products and finished products involved in the process: - **Raw Material & Product- Coal.**
4. Particulars of sampling: - **Work Place Monitoring.**
5. Date of Monitoring: - **23/11/2023**

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 Coal Yard Area	Total Dust	Handy Sampler	01	1.81	1.81	10 mg/m ³	NIOSH0600	05	All Process Activities are Running.		JITEN LAD

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-U1-002

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
2. Name of the Department / Plant: - **MEE Plant**
3. Raw materials, by-products and finished products involved in the process: - Raw Material:1) **Untreated Effluent Water**, 2) **Product- Condensate Water.**
4. Particulars of sampling: - **Work Place Monitoring.**
5. Date of Monitoring: - **23/11/2023**

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	MEE Plant (Ground Floor)	TVOC'S (ppm)	Handy Sampler	01	BDL	BDL	**	GC Method	05	All Process Activities are running.		JITEN LAD
2	MEE Plant (1st Floor)			01	BDL	BDL	**					
3	MEE Plant (2nd Floor)			01	BDL	BDL	**					

NOTE: (1) ** Limit has not been defined as per factory act. (2) BDL- Below Detection Limit.

Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.

Authorized By:



Jaivik S. Tandel

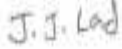
(Manager - Operations)

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-U1-003

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
2. Name of the Department / Plant: - **MEA Plant**
3. Raw materials, by-products and finished products involved in the process: - Raw Material:1) --, 2) Product- **Ethylation & Propylation Product.**
4. Particulars of sampling: - **Work Place Monitoring.**
5. Date of Monitoring: - **23/11/2023**

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	MEA Plant (Ground Floor)	TVOC'S (ppm)	Handy Sampler	01	BDL	BDL	**	GC Method	05	All Process Activities are running.		JITEN LAD
2	MEA Plant (1st Floor)			01	BDL	BDL	**					
3	MEA Plant (2nd Floor)			01	BDL	BDL	**					
4	MEA Plant (Top Floor)			01	BDL	BDL	**					

NOTE: (1) ** Limit has not been defined as per factory act. (2) BDL- Below Detection Limit.

Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.

Authorized By:



Jaivik S. Tandel

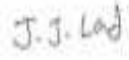
(Manager - Operations)

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-U1-001

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej - 392 130, Gujarat.
2. Name of the Department / Plant: - **Coal Storage**
3. Raw materials, by-products and finished products involved in the process: - **Raw Material & Product- Coal.**
4. Particulars of sampling: - **Work Place Monitoring.**
5. Date of Monitoring: - **18/10/2023**

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 Coal Yard Area	Total Dust	Handy Sampler	01	2.12	2.12	10 mg/m ³	NIOSH0600	05	All Process Activities are Running.		JITEN LAD

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-U1-002

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
2. Name of the Department / Plant: - **MEE Plant**
3. Raw materials, by-products and finished products involved in the process: - Raw Material:1) **Untreated Effluent Water**, 2) Product- **Condensate Water**.
4. Particulars of sampling: - **Work Place Monitoring**.
5. Date of Monitoring: - **18/10/2023**

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	MEE Plant (Ground Floor)	TVOC'S (ppm)	Handy Sampler	01	BDL	BDL	**	GC Method	05	All Process Activities are running.		JITEN LAD
2	MEE Plant (1st Floor)			01	BDL	BDL	**					
3	MEE Plant (2nd Floor)			01	BDL	BDL	**					

NOTE: (1) ** Limit has not been defined as per factory act. (2) BDL- Below Detection Limit.

Work Place Monitoring done by M/s. Unistar Environment & Research Labs Pvt. Ltd., Vapi.

Authorized By:



Jaivik S. Tandel

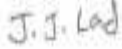
(Manager - Operations)

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-U1-003

1. Name of Industries: **M/s. Aarti Industries Ltd. (Dahej SEZ Unit Neo)**
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, Gujarat.
2. Name of the Department / Plant: - **MEA Plant**
3. Raw materials, by-products and finished products involved in the process: - Raw Material:1) --, 2) Product- **Ethylation & Propylation Product.**
4. Particulars of sampling: - **Work Place Monitoring.**
5. Date of Monitoring: - **18/10/2023**

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	MEA Plant (Ground Floor)	TVOC'S (ppm)	Handy Sampler	01	BDL	BDL	**	GC Method	05	All Process Activities are running.		JITEN LAD
2	MEA Plant (1st Floor)			01	BDL	BDL	**					
3	MEA Plant (2nd Floor)			01	BDL	BDL	**					
4	MEA Plant (Top Floor)			01	BDL	BDL	**					

NOTE: (1) ** Limit has not been defined as per factory act. (2) BDL- Below Detection Limit.

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 - 1)
(Neo 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 2413956 / 2425610
Email : response@uem.in Website : www.uerl.in

MSEB/C.C. (GOI) Recognized Environmental
Laboratory (under the EPA 1986 (3)75/2013 to 22.05.2014)

QC-NABET Accredited EA & SW
Consultant Organization

QPCB 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. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-001

Report Issue Date: 04/01/2024

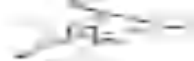
Location : AAQM 1 : Near Main Gate (Lat. N 21.685113, Long. E 72.544891)

Instrument - RDS: (Sr. No. 232-I-2019) & FPS: (Sr. No. 263-I-2019)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO _x µg/m ³	NO _x µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	06/12/2023	78	26	17.7	23.4
2	07/12/2023	72	23	15.8	19.6
3	13/12/2023	82	28	16.7	22.3
4	14/12/2023	74	24	18.1	21.5
5	21/12/2023	74	23	16.4	22.5
6	22/12/2023	69	21	15.7	21.6
7	26/12/2023	79	25	18.1	23.5
8	27/12/2023	71	22	17.5	20.4
Max.		82	28	18	24
Min.		69	21	16	20
98th Percentile		81.6	27.7	18.1	23.5
Permissible Limit (As Per NAAQMS)		100	60	80	80

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. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-002

Report Issue Date: 04/01/2024

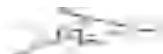
Location : AAQM-2 : Near ETP Plant (Lat. N 21.682164, Long. E 72.550906)

Instrument - RDS (Sr.No. 190303U005) & FPS (Sr.No. 190202U006)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO _x µg/m ³	NO _x µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	06/12/2023	72	23	20.2	26.4
2	07/12/2023	76	25	17.5	21.8
3	13/12/2023	65	20	15.4	19.7
4	14/12/2023	68	22	18.9	22.5
5	21/12/2023	75	24	18.5	21.7
6	22/12/2023	66	21	20.8	24.3
7	26/12/2023	74	26	22.6	26.3
8	27/12/2023	70	23	19.1	23.6
Max.		76	26	23	26
Min.		65	20	15	20
98th Percentile		75.9	25.9	22.3	26.4
Permissible Limit (As Per NAAQMS)		100	60	80	80

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. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-003

Report Issue Date: 04/01/2024

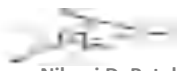
Location : AAQM-3 : Near Plant Office (Lat. N 21.681326, Long. E 72.550520)

Instrument: RDS (Sr.No. 22905-DTG-2018) & FPS (Sr.No. 112-DTG-2012)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	Sox µg/m ³	NOx µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	06/12/2023	74	26	22.6	26.3
2	07/12/2023	70	23	19.1	23.6
3	13/12/2023	72	23	20.2	26.4
4	14/12/2023	76	25	17.5	21.8
5	21/12/2023	65	20	15.4	19.7
6	22/12/2023	62	16	18.3	22.5
7	26/12/2023	66	24	16.3	19.2
8	27/12/2023	70	26	14.8	21.7
Max.		76	26	23	26
Min.		62	16	15	19
98th Percentile		75.7	26.0	22.3	26.4
Permissible Limit (As Per NAAQMS)		100	60	80	80

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 - 1)
(Neo 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 2413956 / 2425610
Email : response@uem.in Website : www.uerl.in

MSEB/C.C. (GOI) Recognized Environmental
Laboratory (under the EPA 1986 (3) (3) 2021 to 22.05.2024)

QC-NABET Accredited EA & SW
Consultant Organization

QPCB 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. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-001

Report Issue Date: 05/03/2024

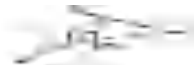
Location : AAQM 1 : Near Main Gate (Lat. N 21.685113, Long. E 72.544891)

Instrument - RDS: (Sr. No. 232-I-2019) & FPS: (Sr. No. 263-I-2019)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO _x µg/m ³	NO _x µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	06/02/2024	75	25	16.8	20.3
2	07/02/2024	65	20	18.9	23.5
3	14/02/2024	70	24	19.2	25.0
4	15/02/2024	66	19	17.5	21.2
5	20/02/2024	76	25	15.3	20.4
6	21/02/2024	72	24	15.3	18.9
7	27/02/2024	68	22	18.4	22.4
8	28/02/2024	62	22	16.5	21.8
Max.		76	25	19.2	25.0
Min.		62	19	15.3	18.9
98th Percentile		75.9	25.0	19.2	24.8
Permissible Limit (As Per NAAQMS)		100	60	80	80

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. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-002

Report Issue Date: 05/03/2024

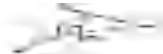
Location : AAQM-2 : Near ETP Plant (Lat. N 21.682164, Long. E 72.550906)

Instrument - RDS (Sr.No. 190303U005) & FPS (Sr.No. 190202U006)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO _x µg/m ³	NO _x µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	06/02/2024	72	23	17.5	21.8
2	07/02/2024	70	25	19.4	25.3
3	14/02/2024	71	23	16.5	20.2
4	15/02/2024	69	21	18.9	25.5
5	20/02/2024	66	22	16.1	22.5
6	21/02/2024	75	28	17.2	20.6
7	27/02/2024	73	25	20.1	24.3
8	28/02/2024	68	24	18.2	22.1
Max.		75	28	20.1	25.5
Min.		66	21	16.1	20.2
98th Percentile		74.7	27.6	20.0	25.5
Permissible Limit (As Per NAAQMS)		100	60	80	80

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. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-003

Report Issue Date: 05/03/2024

Location : AAQM-3 : Near Plant Office (Lat. N 21.681326, Long. E 72.550520)

Instrument: RDS (Sr.No. 22905-DTG-2018) & FPS (Sr.No. 112-DTG-2012)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	Sox µg/m ³	NOx µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	06/02/2024	68	24	19.3	22.6
2	07/02/2024	63	20	16.1	20.5
3	14/02/2024	65	22	18.3	21.5
4	15/02/2024	63	18	20.4	24.6
5	20/02/2024	69	20	18.2	23.3
6	21/02/2024	64	22	16.5	19.3
7	27/02/2024	66	20	17.2	21.1
8	28/02/2024	65	22	22.3	26.2
Max.		69	24	22.3	26.2
Min.		63	18	16.1	19.3
98th Percentile		68.9	23.7	22.0	26.0
Permissible Limit (As Per NAAQMS)		100	60	80	80

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 - 1)
(Neo 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 2433985 / 2425610
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA 1986 (S) 03/2023 to 22/09/2024

QC-HABET Accredited EA & CW
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. (Unit-1 Neo)
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-001

Report Issue Date: 05/02/2024

Location : AAQM 1 : Near Main Gate (Lat. N 21.685113, Long. E 72.544891)

Instrument - RDS: (Sr. No. 232-I-2019) & FPS: (Sr. No. 263-I-2019)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO _x µg/m ³	NO _x µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	03/01/2024	65	20	15.4	19.7
2	04/01/2024	62	16	18.3	22.5
3	10/01/2024	66	24	16.3	19.2
4	11/01/2024	70	26	14.8	21.7
5	18/01/2024	74	26	22.6	26.3
6	19/01/2024	70	23	19.1	23.6
7	23/01/2024	72	23	20.2	26.4
8	24/01/2024	76	25	17.5	21.8
9	30/01/2024	70	24	15.7	21.2
10	31/01/2024	66	19	16.2	20.3
Max.		76	26	22.6	26.4
Min.		62	16	14.8	19.2
98th Percentile		75.6	26.0	22.2	26.4
Permissible Limit (As Per NAAQMS)		100	60	80	80

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. (Unit-1 Neo)
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-002

Report Issue Date: 05/02/2024

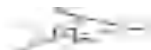
Location : AAQM-2 : Near ETP Plant (Lat. N 21.682164, Long. E 72.550906)

Instrument - RDS (Sr.No. 190303U005) & FPS (Sr.No. 190202U006)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO _x µg/m ³	NO _x µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	03/01/2024	68	21	15.8	20.5
2	04/01/2024	72	23	17.3	22.4
3	10/01/2024	62	18	15.4	19.7
4	11/01/2024	75	24	18.9	22.5
5	18/01/2024	78	30	18.5	21.7
6	19/01/2024	74	27	20.8	24.3
7	23/01/2024	66	20	22.6	26.3
8	24/01/2024	69	22	19.1	23.6
9	30/01/2024	66	24	16.3	19.2
10	31/01/2024	70	26	14.8	21.7
Max.		78	30	22.6	26.3
Min.		62	18	14.8	19.2
98th Percentile		77.5	29.5	22.3	25.9
Permissible Limit (As Per NAAQMS)		100	60	80	80

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. (Unit-1 Neo)
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-003

Report Issue Date: 05/02/2024

Location : AAQM-3 : Near Plant Office (Lat. N 21.681326, Long. E 72.550520)

Instrument: RDS (Sr.No. 22905-DTG-2018) & FPS (Sr.No. 112-DTG-2012)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	Sox µg/m ³	NOx µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	03/01/2024	66	20	14.6	19.5
2	04/01/2024	71	22	16.8	21.7
3	10/01/2024	63	19	13.4	18.5
4	11/01/2024	72	22	19.2	23.4
5	18/01/2024	75	24	17.6	21.5
6	19/01/2024	73	28	21.4	25.5
7	23/01/2024	67	21	18.5	24.3
8	24/01/2024	64	19	17.6	21.8
9	30/01/2024	66	24	16.3	19.2
10	31/01/2024	70	26	14.8	21.7
Max.		75	28	21.4	25.5
Min.		63	19	13.4	18.5
98th Percentile		74.6	27.6	21.0	25.3
Permissible Limit (As Per NAAQMS)		100	60	80	80

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 - 1)
(Neo SEZ Unit)**

At

**Plot No. Z/103/H, Dahej SEZ Part-II,
Tal. Vagara, Dist. Bharuch,
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Monitoring Organization



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Near G.I.D.C. Office, Char Rasta,
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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. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-001

Report Issue Date: 03/04/2024

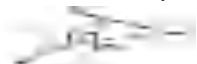
Location : AAQM 1 : Near Main Gate (Lat. N 21.685113, Long. E 72.544891)

Instrument - RDS: (Sr. No. 232-I-2019) & FPS: (Sr. No. 263-I-2019)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO _x µg/m ³	NO _x µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	01/03/2024	70	23	18.2	21.5
2	02/03/2024	72	25	13.1	17.3
3	08/03/2024	75	26	11.8	16.2
4	09/03/2024	72	25	14.3	18.3
5	18/03/2024	68	20	12.3	15.8
6	19/03/2024	74	26	16.6	21.4
7	27/03/2024	68	23	14.5	17.6
8	28/03/2024	66	22	15.4	20.0
Max.		75	26	18.2	21.5
Min.		66	20	11.8	15.8
98th Percentile		74.9	26.0	18.0	21.5
Permissible Limit (As Per NAAQMS)		100	60	80	80

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. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-002

Report Issue Date: 03/04/2024

Location : AAQM-2 : Near ETP Plant (Lat. N 21.682164, Long. E 72.550906)

Instrument - RDS (Sr.No. 190303U005) & FPS (Sr.No. 190202U006)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO _x µg/m ³	NO _x µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	01/03/2024	78	26	20.3	21.7
2	02/03/2024	69	24	15.4	19.0
3	08/03/2024	72	25	13.8	19.7
4	09/03/2024	68	23	13.2	17.5
5	18/03/2024	65	19	16.9	20.3
6	19/03/2024	70	23	13.5	16.2
7	27/03/2024	65	20	15.4	19.5
8	28/03/2024	60	20	12.8	18.3
Max.		78	26	20.3	21.7
Min.		60	19	12.8	16.2
98th Percentile		77.2	25.9	19.8	21.5
Permissible Limit (As Per NAAQMS)		100	60	80	80

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. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-003

Report Issue Date: 03/04/2024

Location : AAQM-3 : Near Plant Office (Lat. N 21.681326, Long. E 72.550520)

Instrument: RDS (Sr.No. 22905-DTG-2018) & FPS (Sr.No. 112-DTG-2012)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	Sox µg/m ³	NOx µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	01/03/2024	74	25	16.2	19.8
2	02/03/2024	65	22	17.4	22.6
3	08/03/2024	76	26	14.3	20.4
4	09/03/2024	65	21	12.5	18.4
5	18/03/2024	62	18	15.2	19.5
6	19/03/2024	65	20	12.7	18.4
7	27/03/2024	71	24	12.2	20.5
8	28/03/2024	72	25	14.3	16.8
Max.		76	26	17.4	22.6
Min.		62	18	12.2	16.8
98th Percentile		75.7	25.9	17.2	22.3
Permissible Limit (As Per NAAQMS)		100	60	80	80

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 - 1)
(Neo 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 2413956 / 2425610
Email : response@uem.in Website : www.uerl.in

MSEB/C.C. (GOI) - Recognized Environmental
Laboratory (under the EPA 1986 (3) (3) 2021 to 22.05.2024)

QC-NABET Accredited EA & ISW
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. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-001

Report Issue Date: 04/12/2023

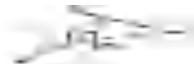
Location : AAQM 1 : Near Main Gate (Lat. N 21.685113, Long. E 72.544891)

Instrument - RDS: (Sr. No. 232-I-2019) & FPS: (Sr. No. 263-I-2019)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO _x µg/m ³	NO _x µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	02/11/2023	68	22	15.3	18.9
2	03/11/2023	72	24	18.4	22.4
3	08/11/2023	75	25	16.8	20.3
4	09/11/2023	65	20	18.9	23.5
5	16/11/2023	62	22	16.5	21.8
6	17/11/2023	72	25	17.6	26.1
7	21/11/2023	70	24	19.2	25.0
8	22/11/2023	66	19	17.5	21.2
9	27/11/2023	63	21	16.2	19.2
10	28/11/2023	66	20	18.4	23.4
Max.		75	25	19	26
Min.		62	19	15	19
98th Percentile		74.5	25.0	19.1	25.9
Permissible Limit (As Per NAAQMS)		100	60	80	80

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. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-002

Report Issue Date: 04/12/2023

Location : AAQM-2 : Near ETP Plant (Lat. N 21.682164, Long. E 72.550906)

Instrument - RDS (Sr.No. 190303U005) & FPS (Sr.No. 190202U006)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO _x µg/m ³	NO _x µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	02/11/2023	73	25	17.2	20.6
2	03/11/2023	75	28	20.1	24.3
3	08/11/2023	72	23	17.5	21.8
4	09/11/2023	70	25	19.4	25.3
5	16/11/2023	68	24	18.2	22.1
6	17/11/2023	75	28	20.4	28.4
7	21/11/2023	71	23	16.5	20.2
8	22/11/2023	69	21	18.9	25.5
9	27/11/2023	65	24	13.4	21.4
10	28/11/2023	72	26	17.5	23.2
Max.		75	28	20	28
Min.		65	21	13	20
98th Percentile		75.0	28.0	20.3	27.9
Permissible Limit (As Per NAAQMS)		100	60	80	80

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. (Unit-1 Neo)
Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-003

Report Issue Date: 04/12/2023

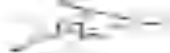
Location : AAQM-3 : Near Plant Office (Lat. N 21.681326, Long. E 72.550520)

Instrument: RDS (Sr.No. 22905-DTG-2018) & FPS (Sr.No. 112-DTG-2012)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	Sox µg/m ³	NOx µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	02/11/2023	66	20	16.5	19.3
2	03/11/2023	64	22	17.2	21.1
3	08/11/2023	68	24	19.3	22.6
4	09/11/2023	63	18	16.1	20.5
5	16/11/2023	65	22	22.3	26.2
6	17/11/2023	72	30	25.4	29.6
7	21/11/2023	65	22	18.3	21.5
8	22/11/2023	63	18	20.4	24.6
9	27/11/2023	67	22	15.1	22.1
10	28/11/2023	76	28	22.1	25.8
Max.		76	30	25	30
Min.		63	18	15	19
98th Percentile		75.3	29.6	24.8	29.0
Permissible Limit (As Per NAAQMS)		100	60	80	80

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 - 1)
(Neo SEZ Unit)**

At

**Plot No. Z/103/H, Dahej SEZ Part-II,
Tal. Vagara, Dist. Bharuch,
Dahej-392 130, Gujarat, India.**

Monitoring Organization



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Near G.I.D.C. Office, Char Rasta,
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Consultant Organization

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Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

Ambient Air Quality Monitoring Data

For M/s. AARTI INDUSTRIES LIMITED. (Unit-1 Neo)

Plot No. Z/103/H, Dahej SEZ Part-II, Tal. Vagara, Dist. Bharuch, Dahej-392 130, 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-1/A-001

Report Issue Date: 06/11/2023

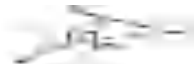
Location : AAQM 1 : Near Main Gate (Lat. N 21.685113, Long. E 72.544891)

Instrument - RDS: (Sr. No. 232-I-2019) & FPS: (Sr. No. 263-I-2019)

Sr. No.	Date of Monitoring	Parameter with Results			
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO _x µg/m ³	NO _x µg/m ³
		IS:5182 (Part-23)	IS:5182 (Part-24)	IS:5182 (Part-2)	IS:5182 (Part-6)
1	02/10/2023	66	19	15.1	18.2
2	03/10/2023	70	23	18.2	21.5
3	12/10/2023	72	25	13.1	17.3
4	13/10/2023	75	26	11.8	16.2
5	17/10/2023	72	25	14.3	18.3
6	18/10/2023	68	20	12.3	15.8
7	26/10/2023	74	26	16.6	21.4
8	27/10/2023	68	23	14.5	17.6
9	30/10/2023	66	22	15.4	20.0
10	31/10/2023	64	19	17.2	22.3
Max.		75	26	18	22
Min.		64	19	12	16
98th Percentile		74.8	26.0	18.0	22.2
Permissible Limit (As Per NAAQMS)		100	60	80	80

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)



MEDICAL CHECK UP DETAILS

COMPANY NAME : Aarti Industries Ltd, Saffron Employee
EMPLOYEE NAME : Jatinkumar Thakorbhaj Prajapati .
BIRTH DATE : AGE : 29 Yrs
SEX : Male EMPLOYEE ID : 59000113
DEPARTMENT : Safety DESIGNATION :

PULSE : 82.00 BP : 116/70
PRESENT COMPLAINT : NAD PERSONAL HISTORY : NAD
OCCUPATIONAL HISTORY : NAD ALLERGIC TO : NAD
FAMILY HISTORY : NAD PAST HISTORY : NAD
ADDICTION : NAD
HEIGHT : 164.00 cm WEIGHT : 67.00 kg BODY MASS INDEX (BMI) : 24.91 Kg/m²

History PERSONAL HISTORY: NAD chief complain: NAD Mother Father or Siblings: NAD Allergy Astham Surgery Infections trauma thyroid: NAD	Systemic Examination RS: NAD CVS: NAD CNS: NAD Abdomen: NAD Private Parts: NAD	CBC Hb: 13.9 /cmm TOTAL WBC COUNT: 7160 mg/dl PLATELET COUNT: 278000 PERIPHERAL SMEAR STUDY: RBC are normochromic normocytic.
LFT SGOT: 20 Nos SGPT: 22.2 mg/dl DIRECT BILIRUBIN: 0.3 mg/dl INDIRECT BILIRUBIN: 0.5 TOTAL BILIRUBIN: 0.8	RFT CREATININE: 0.99 mg/dl URIC ACID: 3.84 /cmm ALKALINE PHOSPHATASE: 58.2	RBS HbA1C: NAD RBS: 62.2
AUDIOMETRY AUDIOMETRY: B/L Normal Nos	ECG ECG: WITHIN NORMAL LIMIT mg/dl	EYE CHECK-UP EYE CHECK-UP / VISION: 6/6 6/6 N/6 N/6 ACCEPTABLE

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





TEST REPORT

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

Reg. No : 307100258
Reg. Date : 12-Jul-2023 09:15 PM
Collected On : 12-Jul-2023 09:17 PM
Report Date :
Department : Safety

Abnormal Result(s) Summary

Test Name	Result Value	Unit	Reference Range
CBC			
Hematocrit (Electrical Impedance)	41.70	%	47 - 52
RBC Count (Electrical Impedance)	4.41	million/cm ³	4.7 - 6.0
MCH (Calculated)	31.5	Pg	27 - 31
MPV	11.1	fL	7.4 - 10.4
RBS-1			
Random Blood Sugar (RBS)	62.20	mg/dL	70 - 140

Abnormal Result(s) Summary End

This is an Electronically Authenticated Report.





TEST REPORT

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

Reg. No : 307100258
Reg. Date : 12-Jul-2023 09:15 PM
Collected On : 12-Jul-2023 09:17 PM
Report Date : 15-Jul-2023 09:44 AM
Department : Safety

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

COMPLETE BLOOD COUNT (CBC)

Hemoglobin (SLS method)	13.9	g/dL	13.0 - 18.0
Hematocrit (Electrical Impedance)	L 41.70	%	47 - 52
RBC Count (Electrical Impedance)	L 4.41	million/cmm	4.7 - 6.0
MCV (Calculated)	94.6	fL	78 - 110
MCH (Calculated)	H 31.5	Pg	27 - 31
MCHC (Calculated)	33.3	%	30 - 35
RDW (Calculated)	12.4	%	11.5 - 14.0
WBC Count (Flowcytometry)	7160	/cmm	4000 - 10500
Platelet Count	278000	/cmm	150000 - 450000
MPV	H 11.1	fL	7.4 - 10.4

DIFFERENTIAL WBC COUNT	[%]	EXPECTED VALUES	[Abs]	EXPECTED VALUES
Neutrophils (%)	50	% 42.0 - 75.2	3580	/cmm
Lymphocytes (%)	44	% 20 - 45	3150	/cmm
Eosinophils (%)	1	% 1 - 4	72	/cmm
Monocytes (%)	5	% 2 - 8	358	/cmm
Basophils (%)	0	% 0 - 1	0	/cmm

PERIPHERAL SMEAR STUDY

RBC Morphology
WBC Morphology
Platelets
Parasites

RBC are normochromic normocytic.
Total WBC and differential count is within normal.
Platelets are adequate with normal morphology.
Malarial parasite is not detected.

This is an Electronically Authenticated Report.

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





TEST REPORT

Name : Mr. Jatinkumar Thakorbbhai Prajapati .	Reg. No : 307100258
Age/Sex : 29 Years / Male	Reg. Date : 12-Jul-2023 09:15 PM
Ref. By :	Collected On : 12-Jul-2023 09:17 PM
Client Name :	Report Date : 15-Jul-2023 09:44 AM
Employee ID : 59000113	Department : Safety

Parameter	Result	Unit	Biological Ref. Interval
Random Blood Sugar (RBS) <i>Glucose Oxidase-Peroxidase</i>	62.20	mg/dL	70 - 140
Creatinine <i>ENZYMATIC</i>	0.99	mg/dL	0.8 - 1.5
Uric Acid <i>Uricase Colorimetry</i>	3.84	mg/dL	3.5 - 8.5
UREA <i>Urease end point reaction</i>	23.60	mg/dL	16.0 - 43.0

LIVER FUNCTION TEST

SGOT <i>Multipoint-Rate/Uv With P-5-P</i>	20.00	U/L	17 - 59
SGPT <i>Multipoint-Rate/Uv With P-5-P</i>	22.20	U/L	0 - 50
Total Bilirubin <i>Colorimetric method</i>	0.8	mg/dL	0.1 - 1.4
Conjugated Bilirubin <i>Sulph acid dpl/calf-benz</i>	0.3	mg/dL	0.0 - 0.3
Unconjugated Bilirubin <i>Sulph acid dpl/calf-benz</i>	0.5	mg/dL	0.0 - 1.1
Alkaline Phosphatase <i>P-nitrophenyl phosphatase-AMP Buffer, Multiple-point rate</i>	58.2	U/L	38 - 126
GGT <i>G-glutamyl-p-nitroanilide</i>	15.90	U/L	15 - 73

This is an Electronically Authenticated Report.

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





TEST REPORT

Name : Mr. Jatinkumar Thakorbbhai Prajapati	Reg. No : 307100258
Age/Sex : 29 Years / Male	Reg. Date : 12-Jul-2023 09:15 PM
Ref. By :	Collected On : 12-Jul-2023 09:17 PM
Client Name :	Report Date : 18-Jul-2023 05:00 PM
Employee ID : 59000113	Department : Safety

Parameter	Result	Unit	Biological Ref. Interval
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URINE ROUTINE EXAMINATION

PHYSICAL EXAMINATION

Quantity	20 cc
Colour	Pale Yellow
Clarity	Clear

CHEMICAL EXAMINATION (BY REFLECTANCE PHOTOMETRIC)

pH	7.5	4.6 - 8.0
Sp. Gravity	1.025	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	2 - 3/hpf	/hpf
Amorphous Material	Nil	
Casts	Nil	
Crystals	Nil	
Bacteria	Nil	
Fungus	Nil	
T. Vaginalis	Nil	
Spermatozoa	Nil	

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

This is an Electronically Authenticated Report.

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

Page 4 of 4





ATHHARV™ TOXSCREEN

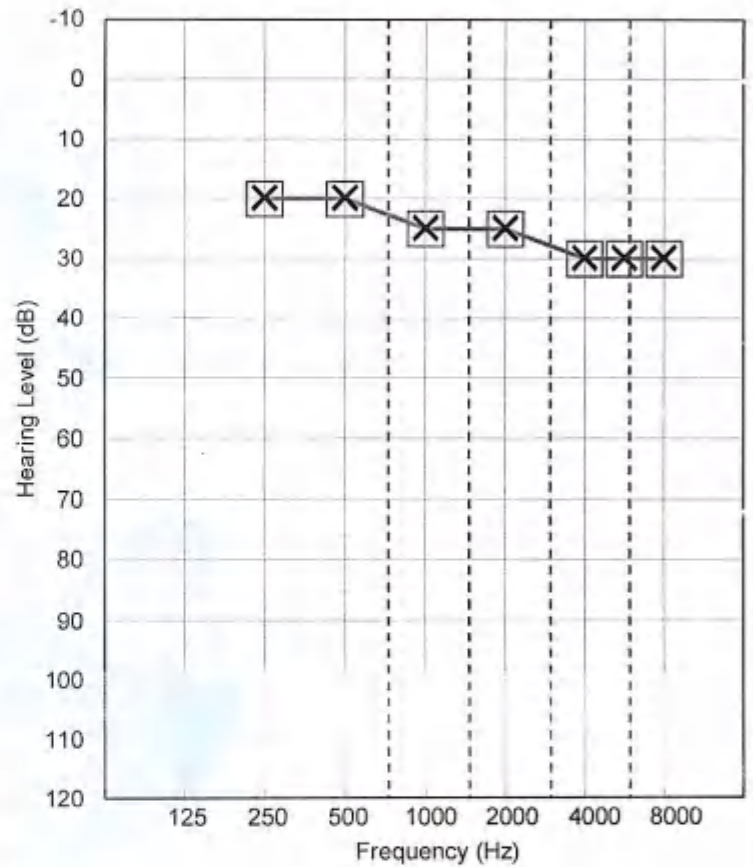
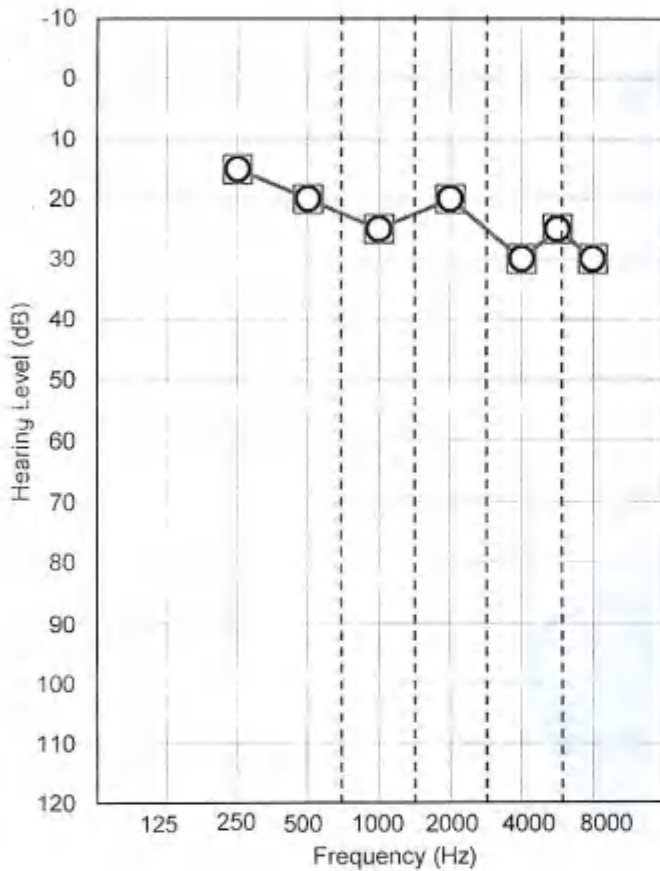
Industrial Health & Toxic Chemicals Testing

PURE TONE AUDIOGRAM

NAME : Jatinkumar Thakorbbhai Prajapati .
AGE : 29 Years
SEX : Male

DATE : 7/12/2023
SR.NO : 221

COMPANY NAME: AARTI INDUSTRIES LIMITED



Air conduction, masked if necessary
 Air conduction, not masked (shadow point)
 Bone conduction, not masked
 Bone conduction, masked
 Uncomfortable loudness level

Right

Left

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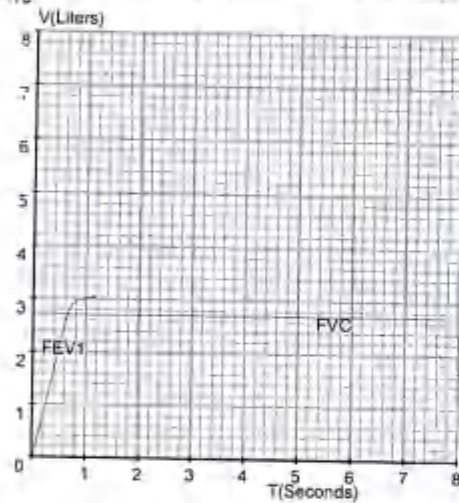
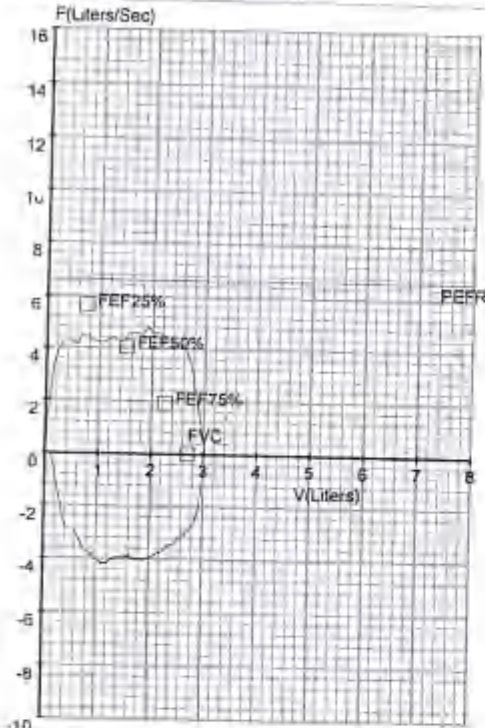
Remarks: B/L Normal

VA
Dr. CHETAN MORTHANA
 M.B.B.S. A.F.I.H.
 Industrial Health Consultant
 Reg. No. G-43633





221 -Jatinkumar Thakorbhaj Prajapati .
20Years/ Male/Ht164Cms/57Kgs/ Non-Smoker



Parameter	Pred	Pre	Pre%	Post	Post%	Imp%
FVC	[L] 2.70	3.03	112	-	-	-
FEV1	[L] 2.19	3.02	138	-	-	-
FEV.5	[L] -	2.43	-	-	-	-
FEV3	[L] 2.62	-	-	-	-	-
FEV6	[L] -	-	-	-	-	-
PEFR	[L/s] 6.57	4.79	73	-	-	-
FEF25-75	[L/s] 2.78	4.45	160	-	-	-
FEF75-85	[L/s] -	4.17	-	-	-	-
FEF.2-1.2	[L/s] 5.00	4.12	82	-	-	-
FEF25%	[L/s] 5.69	4.85	85	-	-	-
FEF50%	[L/s] 4.03	5.29	131	-	-	-
FEF75%	[L/s] 1.91	4.72	247	-	-	-
FEV.5/FVC	[%] -	80.10	-	-	-	-
FEV1/FVC	[%] 81.05	99.48	123	-	-	-
FEV3/FVC	[%] 97.00	-	-	-	-	-
FEV6/FVC	[%] -	-	-	-	-	-
FEV1/FEV6	[%] -	-	-	-	-	-
FET	[S] -	1.11	-	-	-	-
ExpTime	[S] -	0.45	-	-	-	-
LungAge	[Y] 43.00	27.00	63	-	-	-
FIVC	[L] -	2.91	-	-	-	-
PIFR	[L/s] -	4.21	-	-	-	-
FIF25%	[L/s] -	5.08	-	-	-	-
FIF50%	[L/s] -	4.82	-	-	-	-
FIF75%	[L/s] -	5.23	-	-	-	-
FIV.5	[L] -	0.80	-	-	-	-
FIV1	[L] -	2.64	-	-	-	-
FIV3	[L] -	-	-	-	-	-
FIV.5/FIVC	[%] -	27.34	-	-	-	-
FIV1/FIVC	[%] -	90.66	-	-	-	-
FIV3/FIVC	[%] -	-	-	-	-	-

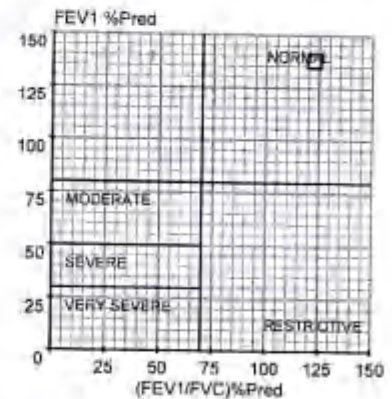
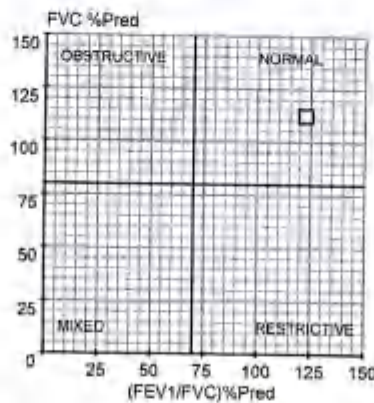
- Pre Medication Report :

Spirometry within Normal range as FVC% >= 80 And FEV1/FVC% > 70

Pre COPD Severity Report:

COPD Severity within Normal range

- Doctor's Comments :



Dr. CHETAN MORTHANA
M.B.B.S. A.F.I.H.
Industrial Health Consultant
Reg. No. G-43633



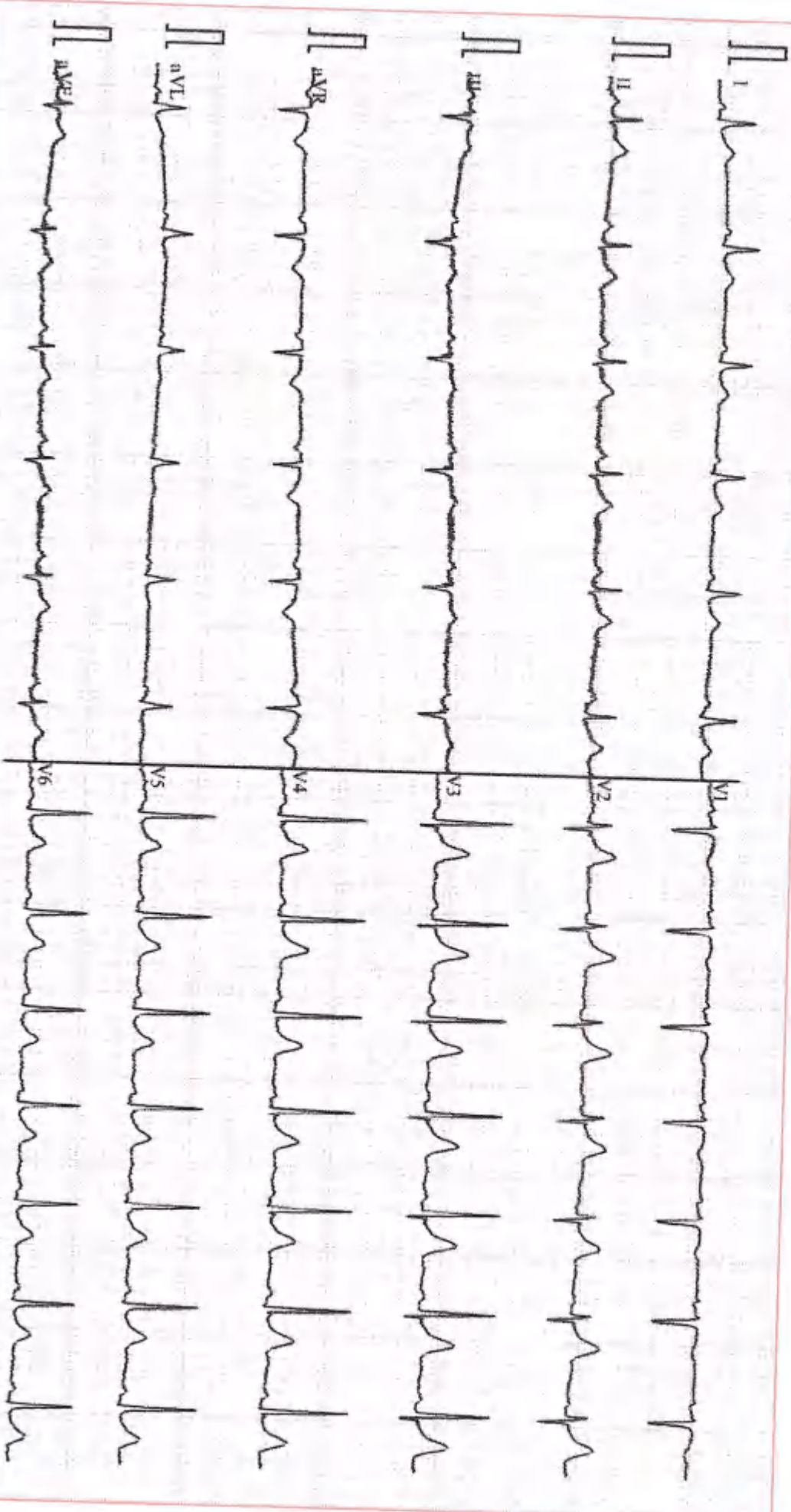
EKG REPORT

ID : 221 Years Male Reg. No. *[Signature]*

HR	: 77	bpm	Diagnosis Information:
p	: 98	ms	Sinus arrhythmia
PR	: 146	ms	Normal ECG
QRS	: 78	ms	
QT/QTcBz	: 344/390	ms	
P/QRS/T	: 43/-1/48		
RV5/SVI	: 1.263/0.725	mV	

Report Confirmed by:

Dr. CHETAN MORTHANA
M.B.B.S. A.F.I.H.
Industrial Health Consultant
Reg. No. G-43633





AARTI INDUSTRIES LIMITED

Self Declaration of Medical History


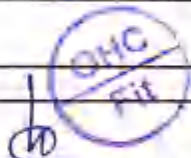
Document No. _____

Issue No. _____

Revision No. _____

Date : _____

Name :	<u>Chavinda</u>	Age / Sex :	<u>23 / male</u>
Agency Name :	<u>J.C. Insulation & Engineering Pvt Ltd</u>	Function :	<u>Insulation (fitter)</u>
Division Name :	<u>Saffron</u>	Emp. Code / Gate Pass No. :	<u>5-21083</u>

Do you have any of the following health problems ?		Yes	No	Remark
If yes, specify in remark column				
1	High/low blood pressure		<u>NO</u>	
2	Diabetes Mellitus (Blood Sugar Problem)		<u>NO</u>	
3	Heart related problems - Chest pain, Heart Attack, Congenital Conditions, Valvular heart disease etc...		<u>NO</u>	
4	Respiratory related problems - Asthma/Shortness of breath/Chronic cough etc...		<u>NO</u>	
5	Nervous system related problems - Convulsion/Fits/Paralysis/Polio etc...		<u>NO</u>	
6	Liver/Gall Bladder related problems like Jaundice/Hepatitis/Gall Stones etc...		<u>NO</u>	
7	Digestive system related problems - Peptic ulcer/bloody vomiting or stool / irregular bowel habits etc...		<u>NO</u>	
8	Kidney related problems - Renal stones/Blood in urine etc...		<u>NO</u>	
9	Blood related problems - Anemia/Low platelet count/Sickle cell anemia/ Thalessemia etc...		<u>NO</u>	
10	Any endocrine related disorder like thyroid conditions etc...		<u>NO</u>	
11	Musculoskeletal disorders - Backache/Limb deformity/Disc Problem/ Joints problem etc...		<u>NO</u>	 <u>23/10/23</u>
12	Eye related problems - Refractive errors/Colour blindness/Squint/Cataract etc...		<u>NO</u>	
13	Do you have any contact lenses ?		<u>NO</u>	
14	Ear related problems - Ear discharge/Hearing loss/Tinnitus etc...		<u>NO</u>	
15	Skin related problems - Rashes/Psoriasis/Scars etc...		<u>NO</u>	
16	Are you suffering from any communicable diseases ? Tuberculosis/HIV/Hepatitis B/Leprosy etc...		<u>NO</u>	
17	Mental Health related problem		<u>NO</u>	
18	Any Allergy - Drug/Food/Other		<u>NO</u>	
19	Vertigo/Giddiness		<u>NO</u>	
20	Phobia (Fear of height or Closed places/Darkness)		<u>NO</u>	
21	Ankle swelling/Hernia/Hydrocele/Abdominal swelling etc...		<u>NO</u>	
22	Any history of hospitalisation in past		<u>NO</u>	
23	Any history of past surgeries ?		<u>NO</u>	
24	Consumption/Habit-Drug/Alcohol/Tobacco/Smoking ?		<u>NO</u>	
25	Any history of long term medications ? OR Currently taking any medication ?		<u>NO</u>	
26	Any history of occupational injuries/illness in past ?		<u>NO</u>	
27	Any past history of cyanosis ? (Bluish discolouration of tongue/lips/nails)		<u>NO</u>	
28	Family History of Diabetes/Hypertension/Heart Attack/Mental disorder/ Asthma/Cancer		<u>NO</u>	
29	For Female Last Menstrual Period _____ Any Gynaecological disorder ?		<u>NO</u>	
30	Any present complaints ?		<u>NO</u>	

Additional Remark _____

I hereby declare that, to the best of my knowledge and belief, the particulars given above and the declaration made therein are true.

For non-routine work only : I hereby declare that I will not work in chemical process areas in violation of the company policy.

Date : 23/10/23Place : Dahej

Chavinda
Sign./Left thumb impression of candidate

Ketan V. Patel
(B.Sc.PG CMLT)
M.8347375600

Akshar Diagnostic Centre

Shop No. 60, 62, 63, 64, Anamika Complex,
Opp. Vadia Water Tank, IPCL Road, Dahej,
Ta. Vagra, Dist. Bharuch.
E-mail : akshardahej@gmail.com

Sandip N. Amodwala
(B.Sc. PG CMLT)
M. 99041 94903

NAME OF EMP:	GOVINDA	SL. NO.	61
COMPANY NAME:	AARTI INDUSTRIES LIMITED DAHEJ	DATE:	21.10.2023
AGENCY NAME:	J.C INSULATION ENGINEERING.	AGE:	23 YEARS
DESIGNATION:	FITTER	SEX:	MALE
TEMP:	97°	SPO2:	99 %

PHYSICAL EXAMINATION

HEIGHT	WEIGHT	B.P.	PULSE	BMI
167	50	120/80	82	18
CM	KG	MM OF Hg	min.	HEALTHY 18 TO 25
INFECTIONS	NAD	SKIN	NAD	
CONTAGIOUS	NAD	RESPIRATORY SYSTEM	NAD	
ENT	NAD	CARDIOVASCULAR SYSTEM	NAD	
FAMILY HISOTRY	NAD	GENETIAL SYSTEM	NAD	
PERSONAL HISTORY	NO SIGNIFICANT	SKELETON SYSTEM	NAD	
ADDICTION	NAD	C.N.S.	NAD	

VISUAL TEST

	RT	LT	COLOUR VISION:	ACCEPTABLE
NEAR VISION	N/6	N/6	WITHOUT GLASSES	
DISTANCE VISION	6/6	6/6		

REMARKS: ***
ADVICE: ***
FITNESS STATUS : PERSON IS FIT FOR WORK

Dr HEMANT RAUHAN
MBBS, CIH
Reg No G-40271

FORM NO. 33

(Prescribed under Rule - 68-T and 102)

CERTIFICATE OF FITNESS OF EMPLOYMENT IN HAZARDOUS PROCESS AND OPERATION

(TO BE ISSUED BY THE FACTORY MEDICAL OFFICER)

Certificate of Medical Examination

61

1	EMPLOYEE CODE NO.	:	*****
2	NAME OF PERSON EXAMINED	:	GOVINDA
3	FATHER NAME	:	SAMRATHI
4	SEX	:	MALE
5	RESIDENCE	:	****
6	DATE OF BIRTH	:	10.06.2000
7	NAME & ADDRESS OF THE FACTORY	:	J.C INSULATION ENGINEERING.
8	THE WORKER IS PROPOSED	:	FITTER
	A. HAZARDOUS PROCESS	:	
	B. DANGEROUS OPERATION	:	

I Certify that I have Personally examined the above named person whose identification Marks are
CUT MARK ON LT LEG And who is desirous of being employed in above
mentioned process / operation and that his / her, are, as can be ascertained from my examination is
23 years.

In my Opinion he / she is fit for employment in the said manufacturing process / operation.

In my Opinion he / she is unfit for employment in the said manufacturing process / operation for the
reason _____ He / She is referred for further examination to the Certifying
Surgeon.

The Serial Number of the Previous Certificate is _____

Signature or left hand thumb
Impression of the person examined

गोविन्दा

23/10/23

Dr. HEMANT P. CHAUHAN
MBBS, CIH
Reg No. G-40271

Signature of factory medical officer
Stamp of factory Medical Officer
with Name of the Factory

Note :

- 1 If declared unfit, reference should be made immediately to the Certifying Surgeon.
- 2 Certifying Surgeon should communicate his findings to the occupier within 30 days of the receipt of this reference.

Medical Examination Certificate for employment at AIL

(To be issued by General Physician or Industrial Physician Only)

61

Name:	GOVINDA	
Age/Sex:	23	MALE

Present Medical Illness:	NAD
Past Medical History:	NAD
Dietary Habits:	NAD
Addiction History:	NAD
Family Medical History:	NAD
Occupational History:	NAD

height:	167	cm	Weight:	50	kgs	BMI:	17.93	Kg/m2
---------	-----	----	---------	----	-----	------	-------	-------

Temperature:	97°	F	Pulse Rate:	82	/min
Blood Pressure:	120/80	mm Hg	SpO2:	99	%

Trismus Test	Normal
--------------	--------

General Examination	NAD
Central Nervous System	NAD
Ear/Nose/Throat	NAD
Cardiovascular System	NAD
Respiratory System	NAD
Gastrointestinal System	NAD
Integumentary System	NAD
Musculoskeletal System	NAD


	Right Eye	Left Eye
Far Vision	6/6	6/6
Near Vision	N/6	N/6
Colour Vision	ACCEPTABLE	

The Following investigation reports are verified and attached (Kindly tick)

CBS+PS	<input checked="" type="checkbox"/>	BLD GROUP	<input checked="" type="checkbox"/>	RBS	<input checked="" type="checkbox"/>	LFT	<input type="checkbox"/>
RFT	<input type="checkbox"/>	G6PD	<input type="checkbox"/>	HBsAG	<input type="checkbox"/>	Ur R&M	<input checked="" type="checkbox"/>
PFT	<input checked="" type="checkbox"/>	PTA	<input checked="" type="checkbox"/>	ECG	<input checked="" type="checkbox"/>	CXR	<input checked="" type="checkbox"/>

I have personally examined Mr/Ms. GOVINDA and
have verified his/her reports to be authentic.

Remarks (If any): NAD

Name of Physician	Dr. HEMANT P CHAUHAN (M.B.B.S., C.I.H.)
Stamp	 Dr HEMANT P CHAUHAN MBBS, CIH Reg No G-40271
Date	21.10.2023
Place	DAHEJ

Sandip Amodwala
 Bsc. PG MLT
 M. : 99041 94903



Ketan Patel
 Bsc. PG MLT
 M. : 83473 75600

Akshar
 PATHOLOGY LABORATORY

Shop no. 60,62,63,64, Anamika Complex,
 Opp. Water Tank Vadia, IPCL Road,
 Dahej, Ta. Vagra, Dist. Bharuch.
 Email : akshardahej@gmail.com

NAME:	GOVINDA	AGE:	23
REF BY:	DR. HEMANT P CHAUHAN (M.B.B.S., C.I.H.)	SEX:	MALE
LAB NO:	61	DATE:	21.10.2023

G6P-DH ENZYME TEST

TEST	RESULT	UNIT	NORMAL RANGE
Specimen	Whole EDTA Blood Collection		
Result	10.1	Ug/Hb	6.8 - 18.7 Ug/Hb
Intepretation	G-6PD ACTIVITY ABSENT		
Method	Quantitative (Kinetic)		

LEGEND :
 DRUGS COUSING HEMOLYSIS IN SUBJECT DEFFICIENT IN- G-6PD
 ANTIMALARIALS: PRIMAQUINE, CHLOROQUINE, QUININE.
 SULFONAMIDES: SULFANILAMIDES,SULFASOXAZOLE ETC.
 NITROFUNATION
 ANALAESICS: PHENACITIN, ACETANITID.
 MISCELLANEOUS: VITAMIN K(WATER SOLUBLE FORM), PROBENE METHYLENE
 BLU, CHLORAMPHENICOL, P-AMINOSALICYLICACID,NALIDIXIC ACID.

Amit

Dr. Amit Bhut
 M.D. Pathology
 Consultant Pathologist
 Reg. No. :G- 24305

An investigation have their limitations which are imposed by the limits of sensivity and specifaty of individual assay procedures as well as the specimen received by the laboratory, Isolated laboratory investigation never confirm the final diagnosis of the disease. They only help in arriving at a diagnosis in conjunction with clinical presentation and other related investigaiton.



भारत सरकार
GOVERNMENT OF INDIA



गोविंदा
Govinda
जन्म तिथि/DOB: 10/06/2000
पुरुष/ MALE



5774 1993 0168



भारतीय विशिष्ट पहचान प्राधिकरण
UNIQUE IDENTIFICATION AUTHORITY OF INDIA

आधार
पता:

आत्मज: सामरथी, परसादीपुर उर्फ मिश्रौली,
मिश्रौली, गोरखपुर,
उत्तर प्रदेश - 273412

Address :

S/O: Samrathi, Parsadipur urf mishrauli,
Mishrauli, Gorakhpur,
Uttar Pradesh - 273412



Generation Date: 22/01/2015

5774 1993 0168



1847



help@uidai.gov.in



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P.O. Box No.1947,
Bengaluru-560 001

3.0 NOISE LEVEL MONITORING REPORT



Period: December - 2023

FOR

**M/s. Aarti Industries Limited. (Unit – 1)
(Neo 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@uerrl.in Website : www.uerrl.in

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA-1986 (3) 03.2023 to 22.09.2024)

QC-MARRI Accredited B&G
Consultant Organization

GPCE Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.	UERL/23/12/AIL-1/N-001	Date of Report:	04/01/2024
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD (Unit-1). Plot No. Z/103/H, Dahej SEZ Part-II, Dahej-392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
Location of Sampling / Monitoring	Ambient Noise		
Sampling Method	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: 27/12/2023

Result: -

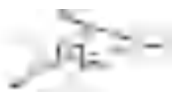
DISCIPLINE – CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION			
Sr. No.	Location	Noise Level dB(A)			
		Day Time	Night Time	Permissible Limit CPCB	
				Day Time	Night Time
1.	Near Main Gate	57.1	51.2	75 dB (A)	70 dB (A)
2.	Near Material Gate	56.5	50.8	75 dB (A)	70 dB (A)
3.	Near Boiler	68.4	52.3	75 dB (A)	70 dB (A)
4.	Near ETP	66.5	56.4	75 dB (A)	70 dB (A)
5.	Near MEA Plant	70.5	55.2	75 dB (A)	70 dB (A)
6.	Near MEA-2 Project Area.	57.2	53.1	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: February - 2024

FOR

**M/s. Aarti Industries Limited. (Unit – 1)
(Neo 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@verl.in Website : www.verl.in

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA-1986 (3) 03.2023 to 22.09.2024

QC-MANET Accredited B&G
Consultant Organization

GPCE Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.	UERL/24/02/AIL-1/N-001	Date of Report:	05/03/2024
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD (Unit-1). Plot No. Z/103/H, Dahej SEZ Part-II, Dahej-392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
Location of Sampling / Monitoring	Ambient Noise		
Sampling Method	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	03/02/2024	02/02/2025

Date of Monitoring: 27/02/2024

Result: -

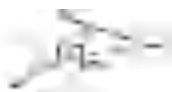
DISCIPLINE – CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION			
Sr. No.	Location	Noise Level dB(A)			
		Day Time	Night Time	Permissible Limit CPCB	
				Day Time	Night Time
1.	Near Main Gate	60.5	53.6	75 dB (A)	70 dB (A)
2.	Near Material Gate	58.2	52.5	75 dB (A)	70 dB (A)
3.	Near Boiler	70.4	58.4	75 dB (A)	70 dB (A)
4.	Near ETP	67.6	56.2	75 dB (A)	70 dB (A)
5.	Near MEA Plant	72.2	57.3	75 dB (A)	70 dB (A)
6.	Near MEA-2 Project Area.	59.7	55.2	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 – 1)
(Neo 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 Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA-1986 (11/03/2023 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

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.	UERL/24/01/AIL-1/N-001	Date of Report:	05/02/2024
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD (Unit-1). Plot No. Z/103/H, Dahej SEZ Part-II, Dahej-392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
Location of Sampling / Monitoring	Ambient Noise		
Sampling Method	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: 24/01/2024

Result: -

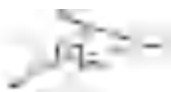
DISCIPLINE – CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION			
Sr. No.	Location	Noise Level dB(A)			
		Day Time	Night Time	Permissible Limit CPCB	
				Day Time	Night Time
1.	Near Main Gate	59.2	52.4	75 dB (A)	70 dB (A)
2.	Near Material Gate	57.5	51.2	75 dB (A)	70 dB (A)
3.	Near Boiler	69.3	52.8	75 dB (A)	70 dB (A)
4.	Near ETP	68.1	55.9	75 dB (A)	70 dB (A)
5.	Near MEA Plant	71.1	56.1	75 dB (A)	70 dB (A)
6.	Near MEA-2 Project Area.	58.2	54.5	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: March - 2024

FOR

**M/s. Aarti Industries Limited. (Unit – 1)
(Neo 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@uerrl.in Website : www.uerrl.in

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA-1986 (3) 03.2023 to 29.09.2024

QC-MANET Accredited BIA & GW
Consultant Organization

GPCE Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.	UERL/24/03/AIL-1/N-001	Date of Report:	03/04/2024
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD (Unit-1). Plot No. Z/103/H, Dahej SEZ Part-II, Dahej-392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
Location of Sampling / Monitoring	Ambient Noise		
Sampling Method	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	03/02/2024	02/02/2025

Date of Monitoring: 20/03/2024

Result: -

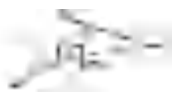
DISCIPLINE – CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION			
Sr. No.	Location	Noise Level dB(A)			
		Day Time	Night Time	Permissible Limit CPCB	
				Day Time	Night Time
1.	Near Main Gate	60.5	53.4	75 dB (A)	70 dB (A)
2.	Near Material Gate	58.2	52.1	75 dB (A)	70 dB (A)
3.	Near Boiler	70.6	53.5	75 dB (A)	70 dB (A)
4.	Near ETP	69.3	58.4	75 dB (A)	70 dB (A)
5.	Near MEA Plant	68.4	57.2	75 dB (A)	70 dB (A)
6.	Near MEA-2 Project Area.	59.3	55.3	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)

3.0 NOISE LEVEL MONITORING REPORT



Period: November - 2023

FOR

**M/s. Aarti Industries Limited. (Unit – 1)
(Neo 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@uvtl.in Website : www.uvtl.in

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Laboratory under the EPA-1986 (3) 03.2023 to 22.09.2024

QC-MANET Accredited BIA & GW
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.	UERL/23/11/AIL-1/N-001	Date of Report:	04/12/2023
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD (Unit-1). Plot No. Z/103/H, Dahej SEZ Part-II, Dahej-392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
Location of Sampling / Monitoring	Ambient Noise		
Sampling Method	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: 23/11/2023

Result: -

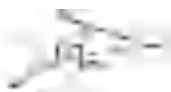
DISCIPLINE – CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION			
Sr. No.	Location	Noise Level dB(A)			
		Day Time	Night Time	Permissible Limit CPCB	
				Day Time	Night Time
1.	Near Main Gate	55.4	50.4	75 dB (A)	70 dB (A)
2.	Near Material Gate	54.2	51.3	75 dB (A)	70 dB (A)
3.	Near Boiler	63.6	54.5	75 dB (A)	70 dB (A)
4.	Near ETP	62.3	57.7	75 dB (A)	70 dB (A)
5.	Near MEA Plant	64.7	56.6	75 dB (A)	70 dB (A)
6.	Near MEA-2 Project Area.	58.5	52.3	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)

3.0 NOISE LEVEL MONITORING REPORT



Period: October - 2023

FOR

**M/s. Aarti Industries Limited. (Unit – 1)
(Neo 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@uerrl.in Website : www.uerrl.in

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Laboratory under the EPA-1986 (3) 03.2023 to 29.09.2024

QC-MANET Accredited B&G
Consultant Organization

GPCE Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2015
Certified Company

ISO 45001:2018
Certified Company

TEST REPORT
AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No.	UERL/23/10/AIL-1/N-001	Date of Report:	06/11/2023
Name & Address of Industries	M/s. AARTI INDUSTRIES LTD (Unit-1). Plot No. Z/103/H, Dahej SEZ Part-II, Dahej-392130, Tal. Vagara, Dist. Bharuch, Gujarat.		
Location of Sampling / Monitoring	Ambient Noise		
Sampling Method	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: 18/10/2023

Result: -

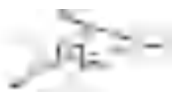
DISCIPLINE – CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION			
Sr. No.	Location	Noise Level dB(A)			
		Day Time	Night Time	Permissible Limit CPCB	
				Day Time	Night Time
1.	Near Main Gate	52.8	48.2	75 dB (A)	70 dB (A)
2.	Near Material Gate	52.6	49.1	75 dB (A)	70 dB (A)
3.	Near Boiler	54.5	50.2	75 dB (A)	70 dB (A)
4.	Near ETP	60.8	54.2	75 dB (A)	70 dB (A)
5.	Near MEA Plant	63.2	55.4	75 dB (A)	70 dB (A)
6.	Near MEA-2 Project Area.	57.2	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)