



**AARTI
INDUSTRIES
LIMITED**

29th May 2024

AIL/JH/2024/ENV/049

To,
Deputy Director General of Forest (C),
Ministry of Environment Forest and Climate Change,
Integrated Regional Office - Gandhinagar,
A Wing - 407 & 409, Aryan Bhawan,
Near CH-3 Circle, Sector - 10A,
Gandhinagar - 382010

Subject: Half Yearly Compliance report to the conditions of Environment Clearance for a period of October 2023 to March 2024

Reference:

1. SEIAA/GUJ/EC/5(f)/81/2013 dated 22.04.2013
2. SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019

Respected Sir,

With reference to the subject cited above, 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 Chemical" manufacturing unit at Plot No. 758/1-2-3, GIDC Jhagadia, District: Bharuch, Gujarat.

The Compliance report is supported with required documents.

Thanking you,

Yours Faithfully,

For, Aarti Industries Limited (Unit-I)

Authorized Signatory



Encl : EC Compliance Report with Annexures

Copy to:

1. Email to The Regional Director,
Central Pollution Control Board, Vadodara.
2. The Member Secretary,
Gujarat Pollution Control Board, Gandhinagar.
3. Email to SEIAA, Gujarat.
4. Uploaded in Parivesh, MoEF&CC Portal.

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. - 758/1-2-3, GIDC, PB No.-23, Jhagadia-393 110, Dist-Bharuch. INDIA. T : 9537011711, 9537011811.

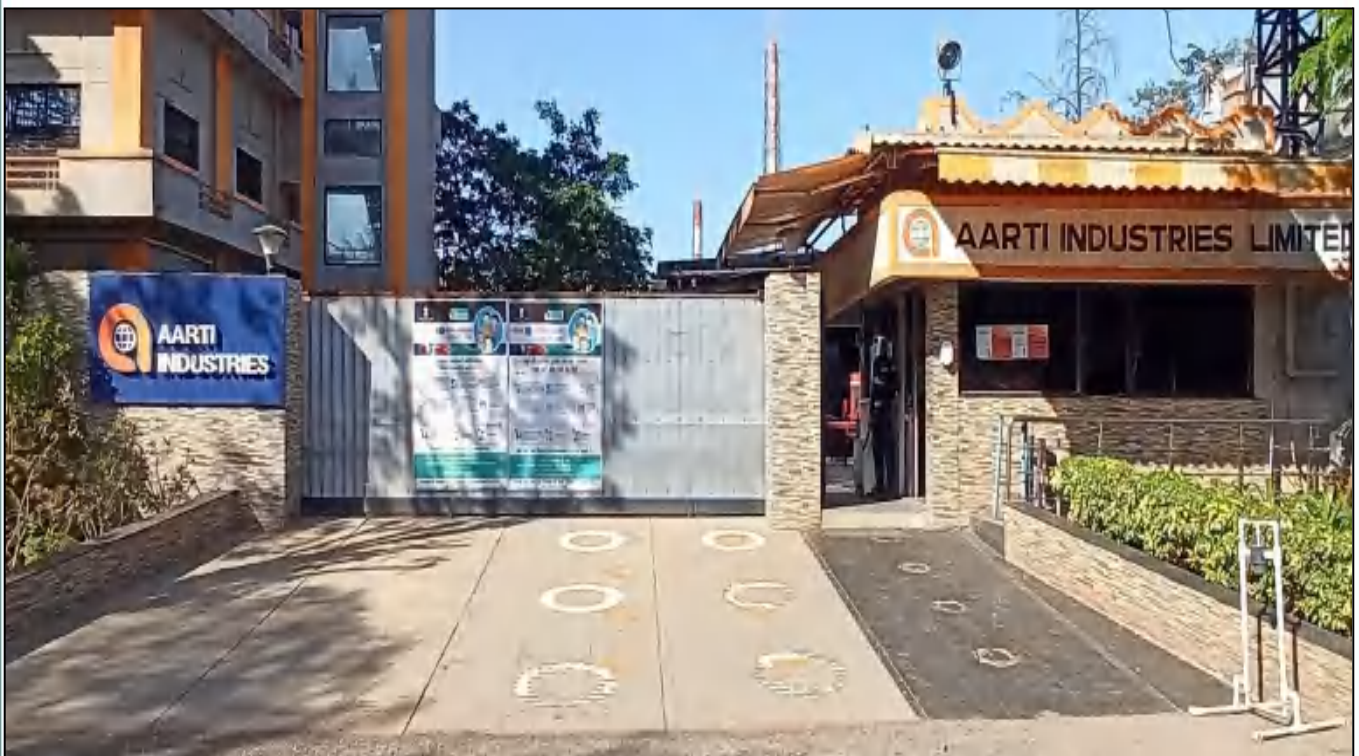
Admin. Office : 71, Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (W), Mumbai - 400080, INDIA.

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

EC: SEIAA/GUJ/EC/5(f)/81/2013, dated 22.04.2013
EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019

Half-Yearly Environmental Clearance Compliance Report

October 2023 to March 2024



Aarti Industries Limited (Unit-I)

Plot No. 758/1-2-3

GIDC Industrial Estate, Jhagadia 393110

Dist: Bharuch, Gujarat

Environmental Clearance Compliance Report - October 2023 to March 2024

EC.: SEIAA/GUJ/EC/5(f)/81/2013 dated 22.04.2013

Sr. No.	Name of Product	Existing Quantity MT/M	Proposed Quantity MT/M	Total Quantity MT/M	Remarks	Status
I	Group A : Mono Nitro Derivatives of Benzenes & Chloro Benzene					
1	Para Nitro Chloro Benzene	3000	0	6000	As per EC, The Unit will manufacture either one product or more than one product from a list of existing products and/ or proposed products @ 6000 MT/M..	Complied The production quantities for Group-A are well within prescribed limits that is below 6000 MT/M.
2	Ortho Nitro Chloro Benzene					
3	Ortho/Para/Meta-Nitro Cumene					
4	Nitro Benzene					
5	2,5- Dichloro Nitro Benzene					
6	3,4- Dichloro Nitro Benzene					
7	Ortho Nitro Toluene	0	3000	6000		
8	Meta Nitro Toluene					
9	Para Nitro Toluene					
10	Meta Nitro Chloro Benzene					
11	2,4- Dichloro Nitro Benzene					
II	Group B : Di Nitro Derivatives of Benzenes & MCB					
1	Di Nitro Benzene	1500	1500	3000		Complied The production quantities for Group-B are well within prescribed limits that is below 3000 MT/M.
2	Di Nitro Chloro Benzene					

Environmental Clearance Compliance Report - October 2023 to March 2024

EC.: SEIAA/GUJ/EC/5(f)/81/2013 dated 22.04.2013

						<table border="1"> <tr> <td>Nov/23</td> <td>1088.753</td> </tr> <tr> <td>Dec/23</td> <td>628.103</td> </tr> <tr> <td>Jan/24</td> <td>944.035</td> </tr> <tr> <td>Feb/24</td> <td>1015.296</td> </tr> <tr> <td>Mar/24</td> <td>1168.14</td> </tr> </table> <p>The production quantities for Group-B are well within prescribed limits that is below 3000 MT/M.</p>	Nov/23	1088.753	Dec/23	628.103	Jan/24	944.035	Feb/24	1015.296	Mar/24	1168.14				
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Dec/23	628.103																			
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Feb/24	1015.296																			
Mar/24	1168.14																			
III	Group C : Hydrogenated Products : (Reduction)																			
1	Meta Chloro Aniline	2500	0	5000	In DCA Product, Unit will manufacture 2,3/2,4/2,5/2,6/3,4/3,5 DCA & Mixture of 2:3,2:4/2:4,2:5/2:5,2:6/ DCA & 2:3,2:4,2:5,2:6 DCA As per EC, The Unit will manufacture either one product or more than one product from a list	Complied														
2	Para Chloro Aniline																			
3	3,4 Di Chloro Aniline																			
4	2,3 Di Chloro Aniline																			
5	2,5 Di Chloro Aniline																			
6	Meta Phenylene Diamine																			
7	Para Phenylene Diamine																			
8	Ortho Phenylene Diamine																			
9	Ortho Anisidine																			
10	Para Anisidine																			
11	Chloro Fluoro Aniline																			
						<table border="1"> <thead> <tr> <th>Month</th> <th>Total Production (MT/Month)</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>1546.39</td> </tr> <tr> <td>Nov/23</td> <td>1414.549</td> </tr> <tr> <td>Dec/23</td> <td>1612.96</td> </tr> <tr> <td>Jan/24</td> <td>1092.63</td> </tr> <tr> <td>Feb/24</td> <td>1266.75</td> </tr> <tr> <td>Mar/24</td> <td>1663.96</td> </tr> </tbody> </table> <p>The production quantities are well within prescribed limits.</p>	Month	Total Production (MT/Month)	Oct/23	1546.39	Nov/23	1414.549	Dec/23	1612.96	Jan/24	1092.63	Feb/24	1266.75	Mar/24	1663.96
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Environmental Clearance Compliance Report - October 2023 to March 2024

EC.: SEIAA/GUJ/EC/5(f)/81/2013 dated 22.04.2013

12	Para Cumidine				of existing products and/ or proposed products @ 5000 MT/M.
13	Para Amino Phenol				
14	Meta Amino Phenol				
15	Toluidines				
16	Ortho Chloro Aniline	0	2500		
17	2,4 Di Chloro Aniline				
18	2,6 Di Chloro Aniline				
19	3,5 Di Chloro Aniline				
20	Mixer of 2,4/2,5 DCA				
21	Mixer of 2,5/2,6 DCA				
22	Mixer of 2,4/2,5/2,6 DCA				
23	Ortho Cumidine				
24	Meta Cumidine				
25	Meta Anisidine				
26	2,4,5 TrichloroAniline				
28	Para Fluoro Aniline				
29	Meta Fluoro Aniline				
30	Ortho Fluoro Aniline				
31	Di Fluoro Aniline (1:3)				

Environmental Clearance Compliance Report - October 2023 to March 2024

EC.: SEIAA/GUJ/EC/5(f)/81/2013 dated 22.04.2013

32	Di Fluoro Benzene (1:3)																			
33	4-Fluoro-N-Isopropyl Aniline																			
34	4-Chloro-N-Isopropyl Aniline																			
35	Other Reduction Products																			
	Total of Group A,B & C	7000	7000	14000		<p>Complied</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Total Production (MT/Month)</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>8515.25</td> </tr> <tr> <td>Nov/23</td> <td>8225.64</td> </tr> <tr> <td>Dec/23</td> <td>6445.97</td> </tr> <tr> <td>Jan/24</td> <td>6557.46</td> </tr> <tr> <td>Feb/24</td> <td>7160.27</td> </tr> <tr> <td>Mar/24</td> <td>8416.41</td> </tr> </tbody> </table> <p>The production quantities are well within prescribed limits.</p>	Month	Total Production (MT/Month)	Oct/23	8515.25	Nov/23	8225.64	Dec/23	6445.97	Jan/24	6557.46	Feb/24	7160.27	Mar/24	8416.41
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IV	Group D : Only Physical Separation																			
1	Ortho/Para/Meta Chloro Toluene	0	450	450	Separation By Distillation	Complied														
2	2:3 DCNB/3:4 DCNB	0	550	550	Separation By Distillation	<table border="1"> <thead> <tr> <th>Month</th> <th>Total Production (MT/Month)</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>266.282</td> </tr> <tr> <td>Nov/23</td> <td>237.500</td> </tr> <tr> <td>Dec/23</td> <td>164.000</td> </tr> </tbody> </table>	Month	Total Production (MT/Month)	Oct/23	266.282	Nov/23	237.500	Dec/23	164.000						
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Environmental Clearance Compliance Report - October 2023 to March 2024

EC.: SEIAA/GUJ/EC/5(f)/81/2013 dated 22.04.2013

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Sr. No.	CONDITIONS	COMPLIANCE STATUS																									
A	SPECIFIC CONDITIONS:																										
A.1	WATER:																										
1	<p>Total water requirement for the project shall not exceed 892 KL/day after the expansion and it shall be met through GIDC water supply only. No ground water shall be tapped for the project requirements in any case.</p>	<p>Complied.</p> <p>Unit receives water from the GIDC water supply only. No ground water is extracted.</p> <p>Unit has increased the water consumption limit to 1118 KLD as per the CCA No. AWH- 119699 dated 29/06/2022, CCA Amendment No. H-119700 dated 09/09/2022 valid upto 07/06/2029 and same is enclosed herewith as <u>Annexure-1</u>.</p> <p>Water Bill from GIDC is enclosed herewith as <u>Annexure-2</u></p> <p>Total water consumption from the project as per Water Bills is tabulated below:</p> <table border="1"> <thead> <tr> <th rowspan="3">Month</th> <th colspan="2">Water Consumption</th> </tr> <tr> <th>Total</th> <th>Avg</th> </tr> <tr> <th>KL/Month</th> <th>KLD</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>34622</td> <td>1116.84</td> </tr> <tr> <td>Nov/23</td> <td>33280</td> <td>1109.33</td> </tr> <tr> <td>Dec/23</td> <td>34612</td> <td>1116.52</td> </tr> <tr> <td>Jan/24</td> <td>33827</td> <td>1091.19</td> </tr> <tr> <td>Feb/24</td> <td>32354</td> <td>1115.66</td> </tr> <tr> <td>Mar/24</td> <td>34564</td> <td>1114.97</td> </tr> </tbody> </table>	Month	Water Consumption		Total	Avg	KL/Month	KLD	Oct/23	34622	1116.84	Nov/23	33280	1109.33	Dec/23	34612	1116.52	Jan/24	33827	1091.19	Feb/24	32354	1115.66	Mar/24	34564	1114.97
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Environmental Clearance Compliance Report - October 2023 to March 2024

EC.: SEIAA/GUJ/EC/5(f)/81/2013 dated 22.04.2013

		Water consumption is well within consent limits.																																																				
2	Total effluent generation from the project shall not exceed 96 KL/day, (91 KL/day of industrial effluent & 5 KL/day of domestic waste water) after the expansion.	<p>Complied.</p> <p>Unit has increased the wastewater generation limit to 436.84 KLD as per the EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019 & CCA No. AWH- 119699 dated 29/06/2022, CCA Amendment No. H-119700 dated 09/09/2022 valid upto 07/06/2029 and same is enclosed herewith as <u>Annexure-1</u>.</p> <p>Total industrial and domestic wastewater generation from Aarti Industries Limited Unit-1 is tabulated below: (with Reference to the condition No. 3.3 CCA No. AWH-119699 dated 29/06/2022).</p> <table border="1"> <thead> <tr> <th colspan="3">Industrial Wastewater Generation Unit I</th> </tr> <tr> <th rowspan="2">Month</th> <th>Total</th> <th>Avg</th> </tr> <tr> <th>KL/ Month</th> <th>KLD</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>6275</td> <td>202</td> </tr> <tr> <td>Nov/23</td> <td>5628</td> <td>188</td> </tr> <tr> <td>Dec/23</td> <td>5540</td> <td>179</td> </tr> <tr> <td>Jan/24</td> <td>5723</td> <td>185</td> </tr> <tr> <td>Feb/24</td> <td>4807</td> <td>166</td> </tr> <tr> <td>Mar/24</td> <td>5576</td> <td>180</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">Domestic Wastewater Generation Unit I</th> </tr> <tr> <th rowspan="2">Month</th> <th>Total</th> <th>Avg</th> </tr> <tr> <th>KL/ Month</th> <th>KLD</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>152</td> <td>4.89</td> </tr> <tr> <td>Nov/23</td> <td>145</td> <td>4.83</td> </tr> <tr> <td>Dec/23</td> <td>139</td> <td>4.49</td> </tr> <tr> <td>Jan/24</td> <td>133</td> <td>4.28</td> </tr> <tr> <td>Feb/24</td> <td>135</td> <td>4.66</td> </tr> <tr> <td>Mar/24</td> <td>141</td> <td>4.54</td> </tr> </tbody> </table> <p>Wastewater generation is well within the prescribed limits.</p>	Industrial Wastewater Generation Unit I			Month	Total	Avg	KL/ Month	KLD	Oct/23	6275	202	Nov/23	5628	188	Dec/23	5540	179	Jan/24	5723	185	Feb/24	4807	166	Mar/24	5576	180	Domestic Wastewater Generation Unit I			Month	Total	Avg	KL/ Month	KLD	Oct/23	152	4.89	Nov/23	145	4.83	Dec/23	139	4.49	Jan/24	133	4.28	Feb/24	135	4.66	Mar/24	141	4.54
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3	There shall be no effluent discharge and the unit shall strictly	Complied.																																																				

Environmental Clearance Compliance Report - October 2023 to March 2024

EC.: SEIAA/GUJ/EC/5(f)/81/2013 dated 22.04.2013

	<p>adhere to Zero Liquid Discharge status after proposed expansion. The unit shall get its underground connection disconnected before commencing the expanded production.</p>	<p>Condition Amended as Environmental Clearance File No.SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019 same is enclosed herewith as <u>Annexure-3</u>.</p> <p>The unit is strictly adhering to Zero Liquid Discharge with an operational RO, MEE and ATFD System.</p> <p>Underground disconnection certificate from GIDC is enclosed herewith as <u>Annexure-4</u>.</p>
4	<p>The unit shall install RO system having capacity of 100 KL/Day for 20 hours operation for utility effluent as well as RO system having capacity of 110 KL/Day for 20 hours operation for treated effluent from the ETP</p>	<p>Complied.</p> <p>Condition Amended as Environmental Clearance File No.SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019.</p> <p>Unit has installed the RO Systems for Utility Effluent and treated effluent from ETP having a capacity of 700 KLD.</p>
5	<p>The existing ETP shall be upgraded to treat the increased quantum of effluent after the proposed expansion.</p>	<p>Complied.</p> <p>Condition Amended as Environmental Clearance File No.SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019</p> <p>Unit has installed a combined ETP, RO, MEE, ATFD, SBT (soil biotechnology) & Activated Sludge Process to treat the effluent efficiently.</p>
6	<p>Effluent shall be treated in the upgraded ETP consisting of the primary secondary & tertiary treatment facilities & treated effluent shall be fed to RO system for process effluent</p>	<p>Complied.</p> <p>Condition Amended as Environmental Clearance File No.SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019.</p> <p>Unit has primary, secondary and tertiary treatment facilities and treated effluent is fed to the RO system followed by MEE & ATFD.</p>
7	<p>Permeate Water (62 KL/day) from RO plant for treated effluent shall be completely reused in cooling tower.</p>	<p>Complied.</p> <p>Condition Amended as Environmental Clearance File No.SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019.</p> <p>RO permeate water is fully reused in cooling towers. Summary added in Point No:7 of Environmental Clearance amendment File No.SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019.</p>

Environmental Clearance Compliance Report - October 2023 to March 2024

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8	Reject water of (34 KL/day) from RO plant for treated effluent as well as reject water (18 KL/day) from RO plant for utility effluent shall be completely evaporated with the help of on-site MEE	Complied. This condition is amended in the Environmental Clearance amendment File No.SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019.
9	Condensate water from MEE (42 KL/day) shall be completely reused in cooling tower whereas concentrate/residue from MEE (10 KL/day) shall be sent to the Crystalizer/Incinerator	Complied. This condition is amended in the Environmental Clearance amendment File No.SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019.
10	The existing MEE (40 KL/day) shall be upgraded to increase capacity from 40 KL/day to 60 KL/day in order to achieve zero discharge	Complied. This condition is amended in the Environmental Clearance amendment File No.SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019.
11	The unit shall provide metering facility at the inlets and outlets of ETP and maintain the records of the same	Complied. This condition is amended in the Environmental Clearance amendment File No.SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019.
12	Proper Logbooks of ETP, RO plants & MEE operations and also showing daily chemical consumptions, power consumption, quantity & quality of effluent evaporated, quantity & quality of effluent reused etc. shall be maintained and	Complied. This condition is amended in the Environmental Clearance amendment File No.SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019.

Environmental Clearance Compliance Report - October 2023 to March 2024

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	furnished to the GPCB from time to time.	
13	Regular performance evaluation of the ETP, RO Plant & MEE shall be undertaken every year to check its adequacy, through credible institutes like IIT, NPC, L.D. College of Engineering, or such other institutes of similar repute, and its records shall be maintained.	<p>Complied.</p> <p>Unit is carrying out an Environmental Audit every year from the Schedule 1 Auditor allotted by GPCB for performance evolution of EMS (Environment Management System). Environment Audit for FY-2022-23 was conducted by Shree Dhanvantary College of Engineering & Technology, Environment Audit Laboratory, Kim, Surat. Unit has also submitted an Environment audit report for the same to GPCB and the same is enclosed herewith as Annexure-6.</p> <p>ETP, RO Plant & MEE adequacy have been evaluated by a reputed institute i.e. Shree Dhanvantary College of Engineering & Technology, Environment Audit Laboratory, Kim, Surat along with other Environment Management systems & found adequate. Copy of the same is enclosed herewith as an Annexure-7.</p> <p>Environment Audit for FY-2023-24 was conducted by Schedule 1 auditor Shree Dhanvantary College of Engineering & Technology, Environment Audit Laboratory, Kim, Surat and the audit report is awaited.</p>
14	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.	<p>Complied.</p> <p>Noted, Unit will join & participate.</p>
A.2	AIR:	
15.	There shall be no additional process vent due to the proposed expansion.	<p>Complied.</p> <p>There is no additional process vent.</p>
16.	Diesel shall be used as new D. G. Sets (3 no.)	Complied.

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	<p>proposed to be installed for the expansion. The stack height of the DG Sets shall be equal to the height needed for the combined capacity of all proposed DG Sets.</p>	<p>Unit is using diesel as fuel in DG Sets. Adequate stack height of 11 m is provided. Unit is carrying out monthly environment monitoring by a MoEF&CC approved and NABL Accredited laboratory.</p> <p>Below are the results of the analysis and are well within the limits</p> <table border="1" data-bbox="570 443 1456 1024"> <thead> <tr> <th>DG Name</th> <th colspan="3">DG-1</th> <th colspan="3">DG-2</th> <th colspan="3">DG-3</th> <th colspan="3">DG-4</th> </tr> <tr> <th>Parameters</th> <th>PM</th> <th>SO₂</th> <th>NO_x</th> <th>PM</th> <th>SO₂</th> <th>NO_x</th> <th>PM</th> <th>SO₂</th> <th>NO_x</th> <th>PM</th> <th>SO₂</th> <th>NO_x</th> </tr> <tr> <th>CCA Limits</th> <td>150 mg/Nm³</td> <td>100 ppm</td> <td>50 ppm</td> <td>150 mg/Nm³</td> <td>100 ppm</td> <td>50 ppm</td> <td>150 mg/Nm³</td> <td>100 ppm</td> <td>50 ppm</td> <td>150 mg/Nm³</td> <td>100 ppm</td> <td>50 ppm</td> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>78.2</td> <td>6.6</td> <td>38.2</td> <td>86.1</td> <td>7.2</td> <td>31.6</td> <td>80.4</td> <td>6.8</td> <td>39.5</td> <td>72.6</td> <td>10.1</td> <td>36.6</td> </tr> <tr> <td>Nov/23</td> <td>84.1</td> <td>8.1</td> <td>36.1</td> <td>72.6</td> <td>5.8</td> <td>38.8</td> <td>73.8</td> <td>6.2</td> <td>35.6</td> <td>69.2</td> <td>7.4</td> <td>40.1</td> </tr> <tr> <td>Dec/23</td> <td>71.6</td> <td>6.6</td> <td>40.1</td> <td>62.9</td> <td>5.8</td> <td>38.2</td> <td>86.1</td> <td>10.2</td> <td>37.9</td> <td>73.9</td> <td>6.2</td> <td>39.8</td> </tr> <tr> <td>Jan/24</td> <td>80.1</td> <td>5.8</td> <td>36.2</td> <td>72.8</td> <td>6.6</td> <td>34.1</td> <td>80.4</td> <td>8.2</td> <td>32.4</td> <td>77.5</td> <td>5.8</td> <td>31.6</td> </tr> <tr> <td>Feb/24</td> <td>72.8</td> <td>6.6</td> <td>38.4</td> <td>86.2</td> <td>5.8</td> <td>40.1</td> <td>65.9</td> <td>4.2</td> <td>38.8</td> <td>70.7</td> <td>6.4</td> <td>34.2</td> </tr> <tr> <td>Mar/24</td> <td>68.5</td> <td>5.2</td> <td>40.8</td> <td>71.6</td> <td>6.6</td> <td>38.1</td> <td>76.8</td> <td>5.4</td> <td>35.6</td> <td>82.1</td> <td>6.6</td> <td>38.8</td> </tr> </tbody> </table> <p>Copy of the DG Stack analysis report of Mar'24 is being enclosed as Annexure-8 for your reference.</p>	DG Name	DG-1			DG-2			DG-3			DG-4			Parameters	PM	SO ₂	NO _x	PM	SO ₂	NO _x	PM	SO ₂	NO _x	PM	SO ₂	NO _x	CCA Limits	150 mg/Nm ³	100 ppm	50 ppm	150 mg/Nm ³	100 ppm	50 ppm	150 mg/Nm ³	100 ppm	50 ppm	150 mg/Nm ³	100 ppm	50 ppm	Oct/23	78.2	6.6	38.2	86.1	7.2	31.6	80.4	6.8	39.5	72.6	10.1	36.6	Nov/23	84.1	8.1	36.1	72.6	5.8	38.8	73.8	6.2	35.6	69.2	7.4	40.1	Dec/23	71.6	6.6	40.1	62.9	5.8	38.2	86.1	10.2	37.9	73.9	6.2	39.8	Jan/24	80.1	5.8	36.2	72.8	6.6	34.1	80.4	8.2	32.4	77.5	5.8	31.6	Feb/24	72.8	6.6	38.4	86.2	5.8	40.1	65.9	4.2	38.8	70.7	6.4	34.2	Mar/24	68.5	5.2	40.8	71.6	6.6	38.1	76.8	5.4	35.6	82.1	6.6	38.8
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<p>17.</p>	<p>Coal / lignite to the tune of 1 MT/Hour shall be used as fuel in the new Thermo-pack and adequate stack height as per prevailing norms shall be provided.</p>	<p>Complied.</p> <p>Unit has provided an adequate height of 30m to the thermopack stack as per norms.</p> <p>Thermopack is not in operation as there is no requirement in process.</p>																																																																																																																					
<p>18.</p>	<p>Bag filter shall be provided as an Air Pollution Control System for the new Thermo-pack and it shall be operated efficiently and effectively to achieve the norms prescribed by the GPCB at stack outlets.</p>	<p>Complied.</p> <p>Bag filter is provided as an Air Pollution Control System for the Thermo-pack.</p> <p>Thermopack is not in operation as there is no requirement in process.</p>																																																																																																																					

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19.	Online monitoring system shall also be installed on Thermo-pack stack to monitor the pollutant concentrations. An arrangement shall also be made for reflecting the online monitoring results on the company's server, which can be accessed by the GPCB on real time basis	<p>Complied.</p> <p>Online Continuous Monitoring has been installed on the Thermopack Stack to monitor SPM. The same has been connected to the company's SCADA system and daily reports have been generated and circulated to concerned persons.</p> <p>Thermopack is not in operation as there is no requirement in process.</p>																
20.	The unit shall undertake measures for solvent recovery and adequate reflux 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>Adequate reflux condensers with chilled water circulation has been provided and recovery of solvent is more than 95 %. Solvent recovery in the unit is tabulated below:</p> <table border="1" data-bbox="764 926 1260 1413"> <thead> <tr> <th>Month</th> <th>Methanol Recovery %</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>97.64%</td> </tr> <tr> <td>Nov/23</td> <td>96.88%</td> </tr> <tr> <td>Dec/23</td> <td>96.78%</td> </tr> <tr> <td>Jan/24</td> <td>97.47%</td> </tr> <tr> <td>Feb/24</td> <td>97.87%</td> </tr> <tr> <td>Mar/24</td> <td>97.42%</td> </tr> <tr> <td>Avg</td> <td>97.34%</td> </tr> </tbody> </table> <p>Solvent recoveries are >95%.</p>	Month	Methanol Recovery %	Oct/23	97.64%	Nov/23	96.88%	Dec/23	96.78%	Jan/24	97.47%	Feb/24	97.87%	Mar/24	97.42%	Avg	97.34%
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21.	Measures shall be taken to reduce the process vapour emissions as far as possible. Use of toxic solvents shall be minimum. All venting equipment shall have a vapour recovery system.	<p>Complied.</p> <p>For reduction of vapor emission, solvents are stored in an underground storage tank with a breather valve and flame arrester. All venting equipment is connected to the vapor recovery system.</p>																



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22.	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission:	Complied. Unit is monitoring the fugitive emission in the work zone as per the prescribed standards. Unit is maintaining Form 37, prescribed under Rule 12-B. Register containing particulars of monitoring of the working environment required under Section 7 - A (2) (e) is herewith enclosed as <u>Annexure-9</u> .
a.	All handling & transport of coal / lignite shall be exercised through covered coal conveyors only.	Complied. Unit has installed a covered conveyor belt for coal handling. Photograph of the same is shown below: 
b.	Enclosure shall be provided at coal / lignite loading and unloading operations.	Complied. Enclosure is provided at coal loading and unloading operations & photograph of the same is enclosed in condition no: 22(a).
c.	Water shall be sprinkled on coal / lignite stock piles periodically to retain some moisture in the	Complied. Water sprinklers are provided to suppress the dust in the coal and ash handling area to reduce the fugitive emission. Photograph of the same in working condition is shown below:

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	<p>top layer and also while compacting to reduce the fugitive emission.</p>	
<p>d.</p>	<p>All transfer points shall be fully enclosed.</p>	<p>Complied. All ash handling & coal handling areas are fully covered under the shed. Refer photographs enclosed in condition no.22 (a)</p>
<p>e.</p>	<p>Adequate dust suppression/extraction system at crusher house as well as for the coal stock yard shall be provided to abate dust nuisance</p>	<p>Complied. Water Sprinklers are provided to suppress the dust. Refer photographs enclosed in condition no.22 (c)</p>
<p>f.</p>	<p>Accumulated dust on the ground and other surfaces shall be removed / swept regularly and water the area after sweeping.</p>	<p>Complied. The unit is continuously sweeping by using the sweeping machine in the area in order to remove the accumulated dust.</p> 

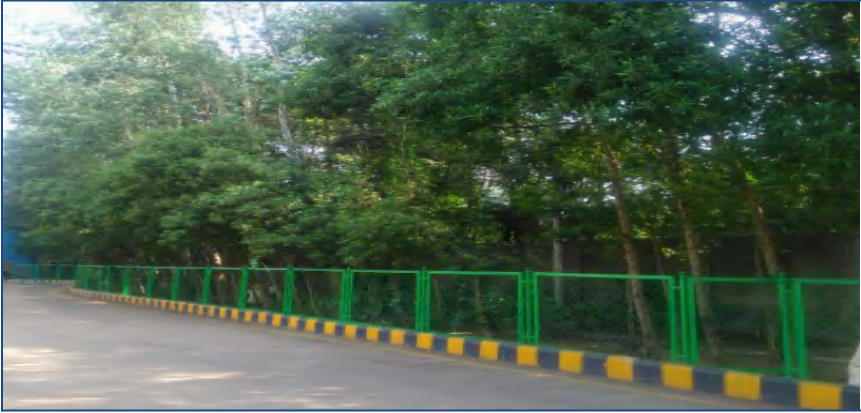
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g.	Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.	<p>Complied.</p> <p>All the internal roads are concreted & asphalted.</p> 
h.	Air borne coal dust shall be controlled with water sprinklers at suitable locations in the plant.	<p>Complied.</p> <p>Water sprinklers are provided to control the coal dust.</p> <p>Refer photographs enclosed in condition no.22 (c)</p>
i	Coal / lignite shall be transported through covered trucks only whereas fly ash shall be transported through closed trucks only.	<p>Complied.</p> <p>All the coal /Fly ash transported through closed trucks only.</p>
j	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>Green belt area is developed along the boundary wall to mitigate fugitive and transport dust emission.</p>

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<p>23.</p>	<p>Regular performance evaluation of the air pollution control systems shall be undertaken every year to check its adequacy, through credible institutes like IIT, NPC, L.D. College of Engineering or other such other institutes of similar repute, and its records shall be maintained.</p>	<p>Unit is carrying out an Environmental Audit every year from the Schedule 1 Auditor allotted by GPCB for performance evolution of EMS (Environment Management System). Environment Audit for FY-2022-23 was conducted by Shree Dhanvantary College of Engineering & Technology, Environment Audit Laboratory, Kim, Surat. Unit has also submitted an Environment audit report for the same to GPCB and the same is enclosed herewith as Annexure-6.</p> <p>The air pollution control systems has been evaluated by a reputed institute i.e. Shree Dhanvantary College of Engineering & Technology, Environment Audit Laboratory, Kim, Surat along with other Environment Management systems & found adequate. Copy of the same is enclosed herewith as an Annexure-7.</p> <p>Environment Audit for FY-2023-24 was conducted by Schedule 1 auditor Shree Dhanvantary College of Engineering & Technology, Environment Audit Laboratory, Kim, Surat and the audit report is awaited.</p>
<p>24.</p>	<p>Regular monitoring of ground level concentration of HCl, SO₂, NO_x, 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 Gujarat Pollution</p>	<p>Complied.</p> <p>Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) at upwind and downwind location (3 specific locations) by a MoEF&CC approved and NABL Accredited laboratory.</p> <p>The analysis results of required parameters are provided in the following table. All values are well within the prescribed limits.</p>

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<p>Control Board. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with GPCB.</p>	Location 1- Near Main Gate					
	Month	PM10 100 µg/m3	PM2.5 60 µg/m3	SO₂ 80 µg/m3	NO_x 80 µg/m3	HCl -
	Oct/23	87.2	34.9	18.8	21.5	20.2
	Nov/23	87	30.7	18.9	21.7	22.4
	Dec/23	80.2	29.2	20.1	23.1	22.3
	Jan/24	84	28.6	18.7	21.2	17.9
	Feb/24	84.4	32.3	20.3	23.4	23.5
	Mar/24	83.3	36.5	20.8	23.5	19.1
	Location-2- Near Emergency Gate					
	Month	PM10 100 µg/m3	PM2.5 60 µg/m3	SO₂ 80 µg/m3	NO_x 80 µg/m3	HCl -
	Oct/23	85.8	34.1	19.3	21.5	24.7
	Nov/23	86.7	36.6	20.4	22.8	20.2
	Dec/23	85.2	31	19.9	22.8	20.2
	Jan/24	86.4	30.6	18.6	20.8	19.4
	Feb/24	84.1	35.7	21.1	23.8	23.5
	Mar/24	82.7	36.7	20.3	23.9	22.2
	Location-3- Near ETP Expansion Area					
	Month	PM10 100 µg/m3	PM2.5 60 µg/m3	SO₂ 80 µg/m3	NO_x 80 µg/m3	HCl -
	Oct/23	87.6	32	19	21.7	23.1
	Nov/23	85.7	32.8	18.5	22.9	23
	Dec/23	84.7	30	17.9	22	18
Jan/24	87.5	31.9	17.2	20.4	17.9	
Feb/24	83.4	33.5	20	23	17.7	
Mar/24	79.8	32.7	19.9	23.3	24.8	

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		Ambient Air Monitoring Report of Mar'24 is enclosed herewith as Annexure-10 , for reference.
A.3	HAZARDOUS / SOLID WASTE :	
25.	The company 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, as may be amended from time to time. Authorization from the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.	Complied. The unit is strictly complying with regulatory norms in handling and disposal of hazardous waste in accordance with the Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2016 and amendments thereof. The copies of authorization,CCCA No. AWH-119699 dated 29/06/2022, CCA Amendment No. H-119700 dated 09/09/2022 valid upto 07/06/2029 and same is enclosed herewith as Annexure-1 .
26.	The hazardous wastes shall be stored in a separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	Complied. All the hazardous wastes are stored in the designated storage area with a pucca bottom and proper leachate collection facility.
27.	The unit shall dispose its ETP sludge, evaporation salt and incineration ash at the nearest common TSDF.	Complied. The unit is disposing of ETP sludge, evaporation salt to the common TSDF site. Membership certificate for TSDF is enclosed as Annexure -12 .
28.	Organic residue and spent carbon shall be disposed by	Complied.

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	incineration in the on-site hazardous waste incinerator or the nearest common hazardous waste incineration facility.	Organic residue and spent carbon is being disposed of in the common Hazardous waste incineration/Co-processing/Pre-processing Facilities. Membership certificate for incineration facility is enclosed as Annexure -12 .														
29.	Entire quantity of spent sulfuric acid shall be sent to the SSP Plant of the company to be set up in Jhagadia estate once it is commissioned. Until commissioning of the SSP Plant at Jhagadia, an entire quantity of spent sulphuric acid shall be sent to their SSP manufacturing unit at Vapi. The spent acid shall be transported only by dedicated tankers equipped with GPS and registered with the GPCB for the purpose.	<p>Complied.</p> <p>Unit is sending Spent Sulphuric Acid to the SSP manufacturing unit located in Vapi along with other industries having permission under Rule 9 of Hazardous Waste Rules, 2016 with proper MoU, online manifest system and through dedicated tankers equipped with GPS. Disposal quantity in MT from Oct'23 to Mar'24 is tabulated below:</p> <table border="1" data-bbox="732 684 1295 1106"> <thead> <tr> <th>Month</th> <th>Disposed Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>5734.070</td> </tr> <tr> <td>Nov/23</td> <td>5417.880</td> </tr> <tr> <td>Dec/23</td> <td>3347.320</td> </tr> <tr> <td>Jan/24</td> <td>4454.620</td> </tr> <tr> <td>Feb/24</td> <td>4786.480</td> </tr> <tr> <td>Mar/24</td> <td>5027.630</td> </tr> </tbody> </table> <p>Sample copy of Manifest of Spent Sulphuric Acid is enclosed as Annexure -13 for reference.</p>	Month	Disposed Quantity (MT)	Oct/23	5734.070	Nov/23	5417.880	Dec/23	3347.320	Jan/24	4454.620	Feb/24	4786.480	Mar/24	5027.630
Month	Disposed Quantity (MT)															
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Nov/23	5417.880															
Dec/23	3347.320															
Jan/24	4454.620															
Feb/24	4786.480															
Mar/24	5027.630															
30.	Discarded containers / barrels / bags / liners shall be either reused or sold only to the authorized recyclers after decontamination.	<p>Complied.</p> <p>Discarded Containers/Barrels are sold to Authorized recycler & non recyclable liner bags are disposed of to Secured landfill/Co-Processing at cement industry. Waste is sent by Manifest System through Dedicated Hazardous waste vehicle with GPS system. Disposal quantity in MT from Oct'23 to Mar'24 is tabulated below:</p> <table border="1" data-bbox="748 1493 1279 1869"> <thead> <tr> <th>Month</th> <th>Disposed Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>19.190</td> </tr> <tr> <td>Nov/23</td> <td>15.070</td> </tr> <tr> <td>Dec/23</td> <td>29.720</td> </tr> <tr> <td>Jan/24</td> <td>29.980</td> </tr> <tr> <td>Feb/24</td> <td>10.780</td> </tr> <tr> <td>Mar/24</td> <td>23.150</td> </tr> </tbody> </table>	Month	Disposed Quantity (MT)	Oct/23	19.190	Nov/23	15.070	Dec/23	29.720	Jan/24	29.980	Feb/24	10.780	Mar/24	23.150
Month	Disposed Quantity (MT)															
Oct/23	19.190															
Nov/23	15.070															
Dec/23	29.720															
Jan/24	29.980															
Feb/24	10.780															
Mar/24	23.150															

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		Sample copy of Manifest of Discarded barrels are enclosed as Annexure -14 , for reference.														
31.	Used oil shall be either reused as lubricant or sold only to the registered recyclers.	<p>Complied.</p> <p>Used oil is sold to registered recyclers. Waste is sent through the Manifest System in a dedicated Hazardous waste vehicle with active GPS system. Disposal quantity in MT from Oct'23 to Mar'24 is tabulated below:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Month</th> <th>Disposed Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>0.000</td> </tr> <tr> <td>Nov/23</td> <td>0.000</td> </tr> <tr> <td>Dec/23</td> <td>0.000</td> </tr> <tr> <td>Jan/24</td> <td>0.000</td> </tr> <tr> <td>Feb/24</td> <td>7.180</td> </tr> <tr> <td>Mar/24</td> <td>0.000</td> </tr> </tbody> </table> <p>Sample copy of Manifest of used or Spent Oil are enclosed as Annexure 26, for reference.</p>	Month	Disposed Quantity (MT)	Oct/23	0.000	Nov/23	0.000	Dec/23	0.000	Jan/24	0.000	Feb/24	7.180	Mar/24	0.000
Month	Disposed Quantity (MT)															
Oct/23	0.000															
Nov/23	0.000															
Dec/23	0.000															
Jan/24	0.000															
Feb/24	7.180															
Mar/24	0.000															
A.4	SAFETY															
32.	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.	<p>Complied.</p> <p>The company is strictly complying with the rules and regulations under Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended.</p>														
33.	Necessary approvals from PESO and concerned Govt. Authorities shall be obtained before commissioning of the project.	<p>Complied.</p> <p>Unit has obtained an approval from PESO License No: P/HQ/GJ/15/2598 (P12353) dated 18/02/2020 duly renewed upto 31/12/2028 and is enclosed herewith as Annexure -15, for reference.</p>														
34.	All the risk mitigation measures and	Complied.														

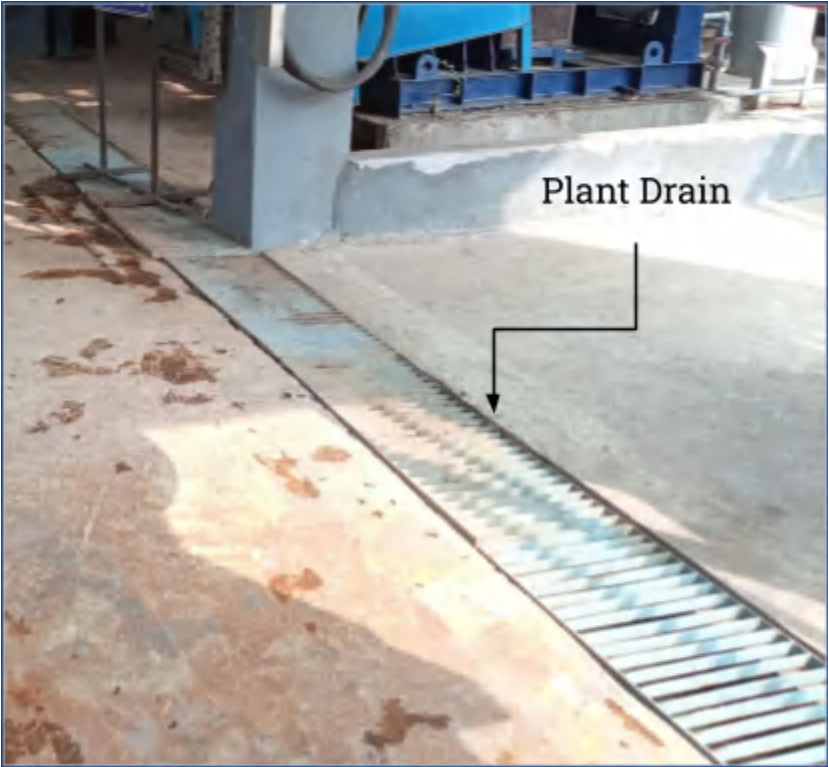
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	recommendations mentioned in Risk Assessment & Disaster Management Plan chapter of the EIA Report shall be implemented.	Unit has implemented all the mitigation and recommendations mentioned in the EIA report. Compliance report of the Risk assessment carried out during the EIA process considering various probable emergency scenarios is enclosed as Annexure -18 .																																																															
35.	A well designed fire hydrant system shall be installed as per the prevailing standards.	<p>Complied.</p> <p>Unit has installed an adequate fire hydrant system as per requirement and standard. Fire pump list and capacity is summarized below:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Description</th> <th>Capacity (HP)</th> <th>RPM</th> <th>MAKE</th> <th>Flw Rate (m3/Hr)</th> <th>HEAD</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Jockey Pump 1</td> <td>7.5</td> <td>2900</td> <td>KSB</td> <td>10</td> <td>75</td> </tr> <tr> <td>2</td> <td>Jockey Pump 2</td> <td>7.5</td> <td>2900</td> <td>KSB</td> <td>10</td> <td>63</td> </tr> <tr> <td>3</td> <td>Main Pump 1</td> <td>50</td> <td>2900</td> <td>KSB</td> <td>100</td> <td>70</td> </tr> <tr> <td>4</td> <td>Main Pump A</td> <td>150</td> <td>1485</td> <td>KSB</td> <td>273</td> <td>88</td> </tr> <tr> <td>5</td> <td>Main Pump B</td> <td>150</td> <td>1485</td> <td>KSB</td> <td>273</td> <td>88</td> </tr> <tr> <td>6</td> <td>Diesel Pump</td> <td>132</td> <td>1800</td> <td>Greaves</td> <td>273</td> <td>70</td> </tr> <tr> <td>7</td> <td>Diesel tank capacity of DG Pump</td> <td colspan="5">200 L</td> </tr> <tr> <td>8</td> <td>Fire Water Reservoir Capacity</td> <td colspan="5">650 KL</td> </tr> </tbody> </table>	Sr. No.	Description	Capacity (HP)	RPM	MAKE	Flw Rate (m3/Hr)	HEAD	1	Jockey Pump 1	7.5	2900	KSB	10	75	2	Jockey Pump 2	7.5	2900	KSB	10	63	3	Main Pump 1	50	2900	KSB	100	70	4	Main Pump A	150	1485	KSB	273	88	5	Main Pump B	150	1485	KSB	273	88	6	Diesel Pump	132	1800	Greaves	273	70	7	Diesel tank capacity of DG Pump	200 L					8	Fire Water Reservoir Capacity	650 KL				
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36.	Necessary flameproof fittings shall be provided in the production plants.	<p>Complied.</p> <p>Necessary flameproof fittings are provided in production plants as per the hazardous area classification. Unit has carried out Hazardous area classification through an external competent agency i.e Vision Power Facts, Mumbai. Cover page of the same is enclosed as an Annexure -19.</p>																																																															
37.	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.	<p>Complied.</p> <p>All measures have been taken to avoid accidents.</p> <p>Use of appropriate PPEs is being done wherever applicable during storage and handling of toxic / hazardous chemicals.</p>																																																															

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38.	Storage and use of hazardous chemicals shall be minimized to the extent possible and all necessary precautions shall be taken to mitigate the risk generated out of it. Storage of hazardous chemicals shall be in multiple small capacity tanks /containers instead of one single large capacity tank for safety purpose.	Complied. Storage and use of hazardous chemicals has been minimized to the extent possible and all necessary precautions are being taken to mitigate the risk generated out of storage and usage of hazardous chemicals. Unit has ensured multiple storage with adequate tank capacity.
39.	During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic waste water or storm water.	Complied. Unit has provided mechanical seal pumps and closed loop system to transfer the materials to avoid spillages. Plant drain is shown in the figure below: 

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		<p>Storm water drain inside the plant premises is shown in the figure below:</p> 
<p>40.</p>	<p>All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals. Close handling system for chemicals shall be provided</p>	<p>Complied.</p> <ul style="list-style-type: none"> • Dyke walls have been provided for all storage tanks. • Closed loops systems to transfer the materials to avoid leakage/ spillage. • Level transmitter/Level gauge provided to hazardous chemical storage tanks to avoid overflow. • Breather valve/safety valve/flame arrestor provided to hazardous chemical storage tanks as appropriate. • Close monitoring through the DCS panel. • Maximum allowable storage level is 80% of total capacity. • Hazardous chemical storage areas are fenced properly to avoid unauthorized entry.
<p>41.</p>	<p>Tie up shall be done with nearby health care unit for seeking immediate medical attention in the case of emergency, regular medical checkup of the</p>	<p>Complied.</p> <p>Unit has a well equipped Occupational Health Center (OHC) functioning under qualified FMO & nurses.</p> <p>Unit has also tied-up with nearby health care unit Jayaben Modi Hospital, 23 Kms away.</p>

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	workers and keeping its record etc.																																									
42.	Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised	Complied. Sufficient PPE like Helmet, Goggles, Safety Belt, Ear Plug, PVC Apron, Dust Mask, Rubber Gloves etc has been provided to all the workers and necessary care is taken to assure strict usage of PPEs.																																								
43.	First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	Complied. First Aid Box and required antidotes for the chemicals used in the unit are provided at a readily available place and in adequate quantity. List of prominent locations in plant where First Aid Boxes are kept are tabulated below: <table border="1" data-bbox="699 724 1321 1848"> <thead> <tr> <th>Sr. No:</th> <th>Plant</th> </tr> </thead> <tbody> <tr><td>1</td><td>New H2 plant</td></tr> <tr><td>2</td><td>Electrical</td></tr> <tr><td>3</td><td>New H2 Godown</td></tr> <tr><td>4</td><td>New Inst. room</td></tr> <tr><td>5</td><td>New H2 Cont. room</td></tr> <tr><td>6</td><td>Maintenance</td></tr> <tr><td>7</td><td>ETP MCC Room</td></tr> <tr><td>8</td><td>Fire station</td></tr> <tr><td>9</td><td>DCNB Porta Cabin</td></tr> <tr><td>10</td><td>Canteen</td></tr> <tr><td>11</td><td>Boiler</td></tr> <tr><td>12</td><td>RO Plant</td></tr> <tr><td>13</td><td>New ETP</td></tr> <tr><td>14</td><td>ETP</td></tr> <tr><td>15</td><td>CN 4,5</td></tr> <tr><td>16</td><td>DCS</td></tr> <tr><td>17</td><td>VIP Gate</td></tr> <tr><td>18</td><td>Admin 1</td></tr> <tr><td>19</td><td>Admin 2</td></tr> </tbody> </table>	Sr. No:	Plant	1	New H2 plant	2	Electrical	3	New H2 Godown	4	New Inst. room	5	New H2 Cont. room	6	Maintenance	7	ETP MCC Room	8	Fire station	9	DCNB Porta Cabin	10	Canteen	11	Boiler	12	RO Plant	13	New ETP	14	ETP	15	CN 4,5	16	DCS	17	VIP Gate	18	Admin 1	19	Admin 2
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			20	Inside Lab						
			21	Dispatch						
			22	Power Plant 1						
			23	Power Plant 2						
44.	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	Complied. Regular training is conducted to all the workers on safety and health aspects of Chemical handling and details of the same for the duration of Oct'23 to Mar'24 is tabulated below:	<table border="1"> <thead> <tr> <th>Training Topic</th> <th>No of participants</th> </tr> </thead> <tbody> <tr> <td>Environment/ Sustainability</td> <td>1000</td> </tr> <tr> <td>Safety Training</td> <td>369</td> </tr> </tbody> </table>		Training Topic	No of participants	Environment/ Sustainability	1000	Safety Training	369
Training Topic	No of participants									
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45.	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.	Complied. Occupational Health Center maintains the records of pre-employment and periodical medical examinations for all the workers, as per the Factories Act & Rules. Duly filled & signed copy of Form-32 & 33 as prescribed in Gujarat Factory Rules are enclosed as an Annexure -20 . Total 1228 nos of workers are gone under the health surveillance during compliance periode.								
46.	Handling and charging of the chemicals shall be done in such a manner that minimal human exposure occurs.	Complied. Unit is operating under the DCS system. Unit strictly follows all the standards set by considering utmost safety for handling and pumping or vacuum transfer of chemicals for reduction of human exposure.								
47.	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	Complied. Unit is following the same. Transportation of hazardous chemicals is being done as per the provisions of the Motor Vehicle Act & Rules.								
A.5	NOISE									
48.	The overall noise level in and around the plant area shall be kept well	Complied. All the DG are provided with acoustic enclosures. Ambient Noise level monitoring has been done monthly by MoEF&CC approved & NABL								

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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.

Accredited laboratory. The report of Mar'24 is enclosed herewith as [Annexure -22](#) for your reference. Details of the noise levels dB (A) at various locations are tabulated below:

Location		Oct/23	Nov/23	Dec/ 23	Jan/ 24	Feb/ 24	Ma/24
Near VIP Gate	Day	68.4	68.0	68.6	67.5	66.5	64
	Night	63.2	62.4	63.3	62.5	62.7	61
Near Material Gate	Day	63.1	62.9	62.5	62.5	61.9	65.7
	Night	58.7	58.3	59.1	58.8	56.1	58.9
Near CN 1,2,3 NOx Scrubber Area	Day	69.3	69.9	70.2	69.2	68.3	70.4
	Night	65.6	65.5	65.8	65.3	64.2	65.5
Near U/G Benzene Storage Area	Day	70.2	70.0	70.2	70.1	70.4	67.1
	Night	67.5	67.6	67.8	67.3	68.1	61.8
Near Gate No. 2	Day	72.6	73.4	73.8	72.9	73.5	71
	Night	68.7	69.2	68.4	69.0	68.4	65.7
Near 30 TPH Boiler Area	Day	69.1	73.2	74.1	72.9	73.8	68.3
	Night	66.3	66.9	69.2	68.6	68.1	64.5
Near Acid Tank Loading/Unloading Area	Day	68.9	68.6	67.9	67.7	66.2	70.6
	Night	65.4	65.2	65.6	65.7	63.1	65.3
150 KLD SBT Area	Day	71.4	72.5	72.5	72.1	70.8	66.5
	Night	69.4	68.8	69.4	69.2	66.4	53.5
Near NT Tank Farm	Day	64.3	63.3	63.1	63.8	63.2	58.4
	Night	59.6	59.8	60.4	59.8	58.9	59.3
Near MBR STP	Day	64.6	64.7	64.4	64.6	63.8	68.3
	Night	62.9	63.2	63.1	62.8	63.1	63
Near Ash Silo (CPP Plant)	Day	69.4	69.8	69.3	69.6	70.2	54.1
	Night	67.0	66.5	66.8	67	66.8	67.4
Near ETP Expansion	Day	72.6	73.8	73.3	73.1	72.9	59.7
	Night	68.2	69.8	69.8	69.2	69.8	56
Near Utility DM Plant	Day	73.2	73.3	73.4	73.2	72.8	72.9
	Night	68.5	68.8	68.6	69.3	69.1	68.8

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		<table border="1"> <tr> <td rowspan="2">Near NEW ETP</td> <td>Day</td> <td>68.1</td> <td>68.3</td> <td>67.5</td> <td>68.4</td> <td>67.2</td> <td>73.6</td> </tr> <tr> <td>Night</td> <td>65.4</td> <td>65.4</td> <td>65</td> <td>65</td> <td>64.1</td> <td>69.1</td> </tr> <tr> <td rowspan="2">Near Utility RO Section</td> <td>Day</td> <td>69.5</td> <td>69.2</td> <td>69.8</td> <td>69.5</td> <td>66.8</td> <td>65.1</td> </tr> <tr> <td>Night</td> <td>65.7</td> <td>66.0</td> <td>66</td> <td>66.4</td> <td>65.2</td> <td>61.7</td> </tr> </table> <p>All values are well within the limits.</p>	Near NEW ETP	Day	68.1	68.3	67.5	68.4	67.2	73.6	Night	65.4	65.4	65	65	64.1	69.1	Near Utility RO Section	Day	69.5	69.2	69.8	69.5	66.8	65.1	Night	65.7	66.0	66	66.4	65.2	61.7
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A.6	ENERGY CONSERVATION:																															
49.	The project proponent shall install energy efficient devices and appliances conforming to the Bureau of Energy Efficiency norms.	<p>Complied.</p> <p>Unit has installed energy efficient devices and appliances conforming to the Bureau of Energy Efficiency norms.</p>																														
50.	The energy audit shall be conducted at regular intervals and the recommendations of the audit report shall be implemented	<p>Complied.</p> <p>Energy Audit has been carried out by Devki Energy Consultancy Pvt Ltd, Vadodara and report is being enclosed herewith as <u>Annexure-23</u></p> <p>Unit has also complied all the recommendations made by them.</p>																														
A.7	WASTE MINIMIZATION AND CLEANER PRODUCTION:																															
51.	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>Unit has undertaken the Cleaner Production Assessment study and obtained Gujarat Cleaner Production Award 2014-15. The same is being enclosed herewith as <u>Annexure -24</u>.</p> <p>The unit is maintaining Zero liquid Discharge.</p>																														
52.	The company shall undertake following waste minimization measures:	Noted.																														
a.	Metering and control of quantities of active ingredients to minimize waste.	<p>Complied.</p> <p>Metering has been provided for active ingredients.</p>																														

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b.	Reuse of by-products from the process as raw materials or raw materials substitutes in other process.	Complied. Unit is sending spent acid generated to the SSP manufacturing unit Vapi along with other industries having permission under Rule 9 of Hazardous Waste Rules, 2016 with a manifest through dedicated tankers equipped with GPS. Manifest Copy for Spent Acid is enclosed as Annexure-13 for reference.
c.	Use of automated and enclosed filling to minimize spillages.	Complied. All the feeding systems are closed and automated.
d.	Use of close feed system into batch reactors.	Complied. Closed loop system has been implemented in batch reactors.
e.	Dry cleaning / mopping of floor instead of floor washing	Complied. Dry cleaning in roads and mopping are being done in plant
f.	Use of high pressure hoses for cleaning to reduce wastewater generation	Complied. Unit is using only high pressure hose pipes wherever required.
g.	Regular preventive maintenance for avoiding leakage, spillage etc.	Complied. Preventive maintenance plan & condition monitoring is in place and is being strictly followed.
A.8	GREEN BELT AND OTHER PLANTATION:	
53.	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, nearby schools, gram panchayat areas and any other open areas in consultation with the	Complied. Unit has developed Green belt area as per CPCB guidelines within and outside the premises. Unit has developed approx 9000 m2 of green belt outside and approx. 10438 m2 within the premises which is more than 35 % of total plot area of unit.

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	GIDC / local bodies /GPCB and submit an action plan of plantation for next three years to the GPCB.	
54.	Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development.	Complied. Adequate Sprinkler & Drip irrigation systems have been provided for the development & maintenance of the Green Belt area.
B	OTHER CONDITION:	
55.	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. Unit has provided the system to close down the operation in the event of failure of any pollution control equipment.
56.	The company shall strictly follow all the recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) published by the Central Pollution Control Board, as may be applicable.	Complied. The unit has strictly followed all applicable recommendations mentioned in the Charter on Corporate Responsibility for Environment Protection (CREP) published by the Central Pollution Control Board. Refer enclosed Annexure -21 for activities carried out under CER.
57.	A separate Environment Management Cell equipped with full fledged laboratory facilities and qualified personnel shall be set up to carry out the	Complied. Unit has established an Environment Management Cell comprising Environment Engineers, Managers and area experts under the guidance of COO/CEH. <div style="border: 1px solid black; padding: 5px; text-align: center;">Environment Management Cell</div>

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	<p>Environment Management and Monitoring functions and a separate budget shall be allocated for this purpose.</p>	<table border="1"> <thead> <tr> <th>Sr No</th> <th>Name of Member</th> <th>Designation</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Shyam Dhekekar</td> <td>Executive Vice President</td> </tr> <tr> <td>2</td> <td>Subhat Jindal</td> <td>COO - Executive Vice President</td> </tr> <tr> <td>3</td> <td>Shankar Karhale</td> <td>CEH - Vice President</td> </tr> <tr> <td>4</td> <td>Krishan Kumar Maurya</td> <td>Assistant General Manager</td> </tr> <tr> <td>5</td> <td>Chintan Jethwa</td> <td>Manager</td> </tr> </tbody> </table> <p>Fully fledged laboratory facility exists for Environmental Monitoring with facilities to carry out analysis like pH, TOC, COD, TDS, MLSS, MLVSS, Chloride, Sulphate, Total Hardness, Silica, Phenol, Ammoniacal Nitrogen, Turbidity, Alkalinity and Conductivity etc.</p>	Sr No	Name of Member	Designation	1	Shyam Dhekekar	Executive Vice President	2	Subhat Jindal	COO - Executive Vice President	3	Shankar Karhale	CEH - Vice President	4	Krishan Kumar Maurya	Assistant General Manager	5	Chintan Jethwa	Manager
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<p>58.</p>	<p>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.</p>	<p>Complied.</p> <p>Budgetary allocation is made for revenue expenditure for routine operation of various treatment facilities. Allocated funds for environment management/pollution control are not diverted for any other purpose.</p> <p>Detailed expenditure deployed in environment pollution mitigation measures such as environmental monitoring, green belt development, effluent treatment, hazardous waste storage and disposal for the period of Oct'23 to Mar'24 is tabulated below:</p> <table border="1"> <thead> <tr> <th>Sr. No</th> <th>Activities</th> <th>Total Cost (Rs in Lacs)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Environment monitoring</td> <td>9.0</td> </tr> <tr> <td>2</td> <td>Green belt</td> <td>2.25</td> </tr> <tr> <td>3</td> <td>Effluent treatment plant</td> <td>1095.33</td> </tr> <tr> <td>4</td> <td>Hazardous waste storage and disposal</td> <td>431.63</td> </tr> <tr> <td colspan="2">Total Cost</td> <td>1533.58</td> </tr> </tbody> </table>	Sr. No	Activities	Total Cost (Rs in Lacs)	1	Environment monitoring	9.0	2	Green belt	2.25	3	Effluent treatment plant	1095.33	4	Hazardous waste storage and disposal	431.63	Total Cost		1533.58
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<p>59.</p>	<p>Pucca flooring / impervious layer shall</p>	<p>Complied.</p>																		

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	be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	Pucca flooring has been provided in the work areas, chemical storage areas and chemical handling areas to avoid soil contamination.
60.	Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.	Complied. Unit is using only mechanical seal pumps in order to avoid the leakages. Seamless pipes without flange joints are provided in the plant. Regular preventive maintenance is also being carried out.
61.	All the recommendations made in the EIA Report submitted by the project proponent shall be strictly implemented.	Complied. Unit has implemented all the recommendations made in the EIA Report.
62.	The company shall carry out socio-economic developmental / community welfare activities in consultation with the District Development Officer / District Collector.	Complied. Unit is doing socio-economic developmental measures including community welfare measures. Activity details are enclosed herewith as Annexure -21 .
63.	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.	Complied. Unit is assured to comply with all the additional conditions imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
64.	No further expansion or modifications in the plant likely to cause	Noted, Unit has taken Environmental Clearance amendment as File

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	environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	No.SEIAA/GUJ/EC/5(f)/893/2019 dated 19.06.2019 and is enclosed herewith as <u>Annexure-3</u> .
65.	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Complied. Unit has devoted sufficient funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein.
66.	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	Complied Advertisements were given in local newspapers.

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	copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	
67.	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.	<p>Complied.</p> <p>The Unit had submitted the 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 09.11.2023 for the period of Apr'23 to Sep'23.</p> <p>Screenshot of half-yearly compliance report submission in State Environment Impact Assessment Authority portal is enclosed herewith as Annexure-5</p>
68.	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	<p>Complied.</p> <p>Unit is adhering to the stipulations issued by the Gujarat Pollution Control Board.</p>
69.	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>Noted.</p> <p>Not applicable since the project is self-financed.</p> <p>Board resolution copy is enclosed herewith as Annexure-25</p>
70.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	<p>Noted.</p>
71.	The company in a time bound manner shall	<p>Complied.</p>

Environmental Clearance Compliance Report - October 2023 to March 2024

EC.: SEIAA/GUJ/EC/5(f)/81/2013 dated 22.04.2013

	<p>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.</p>	<p>The Public Liability Insurance Policy No: 03040113710000 generated on 09/01/2024 has been taken as per the Public Liability Insurance Act which is valid till 08/01/2025 is enclosed herewith as Annexure-16.</p>
72.	<p>This environmental clearance is valid for five years from the date of issue.</p>	<p>Noted.</p>
73.	<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>

Environmental Clearance Compliance Report - October 23 to March 24

EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019

Sr. No.	CONDITIONS	COMPLIANCE STATUS
I	SPECIFIC CONDITIONS	
A.1	WATER	
3.	<p>There shall be no effluent discharge and the unit shall strictly adhere to Zero Liquid Discharge status after proposed expansion. The unit shall get its underground connection disconnected before commencing the expanded production. Unit shall receive additional effluent of 400.4 KLD from sister concern unit i.e. Aarti Industries Ltd (Unit-II) located at the adjoining plot for treatment and treated wastewater of 370 KLD shall be sent back to them for reuse in their premises.</p>	<p>Complied. Unit is maintaining Zero Liquid Discharge.</p> <p>Underground disconnection certificate from GIDC is enclosed herewith as <u>Annexure-4</u>.</p> <p>Sister concern unit i.e. Aarti Industries Ltd (Unit-II) has obtained CC&A Amendment No. AWH-126636 dated 28.06.2023 to manage the effluent within the premises, Hence from Jan-2023 Aarti Industries Ltd (Unit-I) has stopped receiving effluent from sister concern unit Aarti Industries Ltd (Unit-II) for treatment.</p>
4.	<p>Total 616.4 KLD [216 KLD - + 400.4 KLD Aarti Industries Limited (Unit-II)] shall be treated in common/combined ETP.</p>	<p>Complied.</p> <p>Sister concern unit i.e. Aarti Industries Ltd (Unit-II) has obtained CC&A Amendment No. AWH-126636 dated 28.06.2023 to manage the effluent within the premises, Hence from Jan-2023 Aarti Industries Ltd (Unit-I) has stopped receiving effluent from sister concern unit Aarti Industries Ltd (Unit-II) for treatment.</p>

Environmental Clearance Compliance Report - October 23 to March 24

EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019

		<p>Wastewater generation details from Aarti Industries Limited (Unit-I) tabulated in the below table.</p> <table border="1" data-bbox="618 327 1409 814"> <thead> <tr> <th colspan="3">Industrial Wastewater Generation</th> </tr> <tr> <th rowspan="2">Month</th> <th>Total</th> <th>Avg</th> </tr> <tr> <th>KL/ Month</th> <th>KLD</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>6275</td> <td>202</td> </tr> <tr> <td>Nov/23</td> <td>5628</td> <td>188</td> </tr> <tr> <td>Dec/23</td> <td>5540</td> <td>179</td> </tr> <tr> <td>Jan/24</td> <td>5723</td> <td>185</td> </tr> <tr> <td>Feb/24</td> <td>4807</td> <td>166</td> </tr> <tr> <td>Mar/24</td> <td>5576</td> <td>180</td> </tr> </tbody> </table> <p>Wastewater generation is well within the prescribed limits.</p>	Industrial Wastewater Generation			Month	Total	Avg	KL/ Month	KLD	Oct/23	6275	202	Nov/23	5628	188	Dec/23	5540	179	Jan/24	5723	185	Feb/24	4807	166	Mar/24	5576	180
Industrial Wastewater Generation																												
Month	Total	Avg																										
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Feb/24	4807	166																										
Mar/24	5576	180																										
5.	<p>Unit shall install combined ETP of adequate capacity consisting of primary, secondary and tertiary treatment facilities followed by RO, MEE & ATFD.</p>	<p>Complied. Unit has installed a combined ETP consisting of primary, secondary and tertiary treatment facilities followed by RO, MEE and ATFD to treat the effluent efficiently.</p> <p>However, Sister concern unit i.e. Aarti Industries Ltd (Unit-II) has obtained CC&A Amendment No. AWH-126636 dated 28.06.2023 to manage the effluent within the premises, Hence from Jan-2023 Aarti Industries Ltd (Unit-I) has stopped receiving effluent from sister concern unit Aarti Industries Ltd (Unit-II) for treatment.</p>																										
6.	<p>Entire quantity (616.4 KLD) shall be treated in the combined ETP consisting of primary, secondary and tertiary treatment facilities followed by RO, MEE and ATFD</p>	<p>Complied. Unit has provided primary, secondary and tertiary treatment facilities along with RO system, MEE & ATFD for treatment of effluent and maintaining Zero Liquid Discharge.</p> <p>However, Sister concern unit i.e. Aarti Industries Ltd (Unit-II) has obtained CC&A Amendment No. AWH-126636 dated 28.06.2023 to manage the effluent within the premises, Hence from Jan-2023 Aarti Industries Ltd (Unit-I) has stopped receiving effluent from sister concern unit Aarti Industries Ltd (Unit-II) for treatment.</p>																										

Environmental Clearance Compliance Report - October 23 to March 24

EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019

7.	<p>Out of 580 KLD of RO permeate and MEE condensate; 370 KLD shall be send back to the sister concern unit i.e. Aarti Industries Ltd (Unit-II) located at the adjoining plot for reuse and remaining 210 KLD shall be reused within plant premises.</p>	<p>Complied.</p> <p>Sister concern unit i.e. Aarti Industries Ltd (Unit-II) has obtained CC&A Amendment No. AWH-126636 dated 28.06.2023 to manage the effluent within the premises, Hence from Jan-2023 Aarti Industries Ltd (Unit-I) has stopped receiving effluent from sister concern unit Aarti Industries Ltd (Unit-II) for treatment</p> <p>Reused water in Aarti Industries Limited Unit-1 are tabulated below.</p> <table border="1" data-bbox="613 611 1409 1045"> <thead> <tr> <th rowspan="2">Month</th> <th colspan="2">Reused Water Unit-1</th> </tr> <tr> <th>KL/ Month</th> <th>KLD</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>5490.00</td> <td>177.10</td> </tr> <tr> <td>Nov/23</td> <td>4441.00</td> <td>148.03</td> </tr> <tr> <td>Dec/23</td> <td>5525.00</td> <td>178.23</td> </tr> <tr> <td>Jan/24</td> <td>5962.00</td> <td>192.32</td> </tr> <tr> <td>Feb/24</td> <td>4483.00</td> <td>154.59</td> </tr> <tr> <td>Mar/24</td> <td>4987.00</td> <td>160.87</td> </tr> </tbody> </table> <p>Reuse water is well within the prescribed limits.</p>	Month	Reused Water Unit-1		KL/ Month	KLD	Oct/23	5490.00	177.10	Nov/23	4441.00	148.03	Dec/23	5525.00	178.23	Jan/24	5962.00	192.32	Feb/24	4483.00	154.59	Mar/24	4987.00	160.87
Month	Reused Water Unit-1																								
	KL/ Month	KLD																							
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Jan/24	5962.00	192.32																							
Feb/24	4483.00	154.59																							
Mar/24	4987.00	160.87																							
8.	<p>Out of 284.4 KLD of total process effluent (91 KLD from Unit-I + 193.4 KLD from Unit-II); 66 KLD of effluent shall be treated by Fenton treatment followed by MEE -1 & ATFD - 1 and 218.4 KLD of effluent shall be treated in ETP. Treated effluent from ETP (218.4 KLD) and MEE-1 condensate (60 KLD) shall be mixed and further treated in RO 1,2,3,4.</p>	<p>Complied.</p> <p>Unit has adequate treatment facility for treatment of process effluent which includes fenton treatment, ETP with primary, secondary and tertiary treatment, MEE, ATFD and RO .</p> <p>However, Sister concern unit i.e. Aarti Industries Ltd (Unit-II) has obtained CC&A Amendment No. AWH-126636 dated 28.06.2023 to manage the effluent within the premises, Hence from Jan-2023 Aarti Industries Ltd (Unit-I) has stopped receiving effluent from sister concern unit Aarti Industries Ltd (Unit-II) for treatment.</p>																							
9.	<p>Remaining 332 KLD of effluent from utilities (125 KLD from Unit-1 +</p>	<p>Complied.</p>																							


Environmental Clearance Compliance Report - October 23 to March 24

EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019

	<p>207 KLD from Unit-II) shall be treated by desilication process followed by RO - 5,6.</p>	<p>Unit has installed a Desilication Process system followed by RO System to treat Utility Effluent to maintain Zero Liquid Discharge.</p> <p>However, Sister concern unit i.e. Aarti Industries Ltd (Unit-II) has obtained CC&A Amendment No. AWH-126636 dated 28.06.2023 to manage the effluent within the premises, Hence from Jan-2023 Aarti Industries Ltd (Unit-I) has stopped receiving effluent from sister concern unit Aarti Industries Ltd (Unit-II) for treatment.</p>
10.	<p>RO reject of RO- 1, 2, 3, 4, 5, 6 shall be subjected to MEE - 2, 3, 4, followed by ATFD 2, 3, 4. Condensate of 123 KLD (MEE - 2, 3, 4) shall be mixed with RO permeate of 208 KLD (RO - 1, 2, 3, 4) RO permeate of 249 KLD (RO - 5, 6) for reuse. 210 KLD of treated water shall be reused in Unit-I and remaining 370 KLD shall be send to unit-II for reuse.</p>	<p>Complied.</p> <p>RO Permeate and MEE condensate is reused and Unit is maintaining Zero Liquid Discharge.</p> <p>However, Sister concern unit i.e. Aarti Industries Ltd (Unit-II) has obtained CC&A Amendment No. AWH-126636 dated 28.06.2023 to manage the effluent within the premises, Hence from Jan-2023 Aarti Industries Ltd (Unit-I) has stopped sending recycled water to sister concern unit Aarti Industries Ltd (Unit-II).</p>
11.	<p>The unit shall provide metering facility at the inlets and outlets of ETP, RO, MEE, ATFD, reuse, as well as inlet and outlet of effluent received from sister concern unit i.e. Aarti Industries Limited (Unit-II) located at the adjoining plot and maintain the records of the same</p>	<p>Complied.</p>

Environmental Clearance Compliance Report - October 23 to March 24

EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019

		 <p>Meters have been provided at the inlet and outlet of ETP, RO, MEE, ATFD, reuse and records were also maintained for the same.</p> <p>Unit is maintaining ZLD.</p> <p>However, Sister concern unit i.e. Aarti Industries Ltd (Unit-II) has obtained CC&A Amendment No. AWH-126636 dated 28.06.2023 to manage the effluent within the premises, Hence from Jan-2023 Aarti Industries Ltd (Unit-I) has stopped receiving effluent from sister concern unit Aarti Industries Ltd (Unit-II) for treatment. Hence, Unit has dismantled the metering provision for inlet and outlet of effluent received from sister concern unit i.e. Aarti Industries Limited (Unit-II) located at the adjoining plot.</p>
12.	<p>Proper Logbooks of ETP, RO plants, MEE & ATFD operations, chemical consumptions, quantity and quality reused within premises, power generations, as well as inlet and outlet of effluent received from sister concern unit i.e. Aarti Industries Limited (Unit-II) located at the</p>	<p>Complied.</p> <p>Log books are maintained for ETP, RO plants, MEE & ATFD operations, chemical consumptions, power generations. In addition to this, the quantity and quality of reused water within premises.</p> <p>However, Sister concern unit i.e. Aarti Industries Ltd (Unit-II) has obtained CC&A Amendment No. AWH-126636 dated 28.06.2023 to manage the effluent within the premises, Hence from Jan-2023 Aarti Industries Ltd (Unit-I) has stopped receiving effluent from sister concern unit Aarti Industries Ltd</p>

Environmental Clearance Compliance Report - October 23 to March 24

EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019

	adjoining plot, etc. shall be maintained and furnished to the GPCB from time to time.	(Unit-II) for treatment. Hence, there is no need to maintain the record for the same.																										
II	ADDITIONAL CONDITIONS																											
2.1	Unit shall install adequate capacity of combined STP for treatment of domestic wastewater 43 KLD (5 KLD from Unit-1 & 38 KLD from Unit-2. Treated sewage shall be utilized for gardening & plantation purposes within premises of Unit-1 (13 KLD) & Unit-2 (30 KLD).	<p>Complied.</p> <p>Sister concern unit i.e. Aarti Industries Ltd (Unit-II) has obtained CC&A Amendment No. AWH-126636 dated 28.06.2023 for management of sewage in their own premises. Hence from Jan-23 Aarti Industries Ltd (Unit-I) has stopped to receive sewage from sister concern unit Aarti Industries Ltd (Unit-II) for treatment</p> <p>Domestic wastewater generation from Aarti Industries Limited Unit-1 is tabulated below:</p> <table border="1" data-bbox="737 877 1297 1383"> <thead> <tr> <th colspan="3">Domestic Wastewater Generation</th> </tr> <tr> <th rowspan="2">Month</th> <th>Total</th> <th>Avg</th> </tr> <tr> <th>KL/ Month</th> <th>KLD</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>152</td> <td>4.89</td> </tr> <tr> <td>Nov/23</td> <td>145</td> <td>4.83</td> </tr> <tr> <td>Dec/23</td> <td>139</td> <td>4.49</td> </tr> <tr> <td>Jan/24</td> <td>133</td> <td>4.28</td> </tr> <tr> <td>Feb/24</td> <td>135</td> <td>4.66</td> </tr> <tr> <td>Mar/24</td> <td>141</td> <td>4.54</td> </tr> </tbody> </table> <p>Domestic Wastewater is well within the prescribed limits.</p> <p>Treated domestic wastewater is utilized for gardening & plantation purposes within the unit premises.</p>	Domestic Wastewater Generation			Month	Total	Avg	KL/ Month	KLD	Oct/23	152	4.89	Nov/23	145	4.83	Dec/23	139	4.49	Jan/24	133	4.28	Feb/24	135	4.66	Mar/24	141	4.54
Domestic Wastewater Generation																												
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Oct/23	152	4.89																										
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Jan/24	133	4.28																										
Feb/24	135	4.66																										
Mar/24	141	4.54																										
2.2	Unit shall provide a buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.	<p>Noted.</p> <p>Unit has provided buffer water storage tanks of adequate capacities to store treated wastewater and the tank capacities of the same is tabulated below:</p>																										

Environmental Clearance Compliance Report - October 23 to March 24

EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019

		<table border="1"> <tr> <th>Treated Wastewater</th> <th colspan="2">RO Permeate Tanks</th> <th colspan="3">MEE Condensate Tanks</th> </tr> <tr> <th>Storage Tank Capacities</th> <td>150 KL</td> <td>188 KL</td> <td>20 KL</td> <td>50 KL</td> <td>165 KL</td> </tr> </table>					Treated Wastewater	RO Permeate Tanks		MEE Condensate Tanks			Storage Tank Capacities	150 KL	188 KL	20 KL	50 KL	165 KL
		Treated Wastewater	RO Permeate Tanks		MEE Condensate Tanks													
Storage Tank Capacities	150 KL	188 KL	20 KL	50 KL	165 KL													
2.3	Regular performance evaluation of the combined ETP shall be undertaken every year to check its adequacy, through a reputed institute/organization & its records shall be maintained.	<p>Unit is carrying out an Environmental Audit every year from the Schedule 1 Auditor allotted by GPCB for performance evolution of EMS (Environment Management System). Environment Audit for FY-2022-23 was conducted by Shree Dhanvantary College of Engineering & Technology, Environment Audit Laboratory, Kim, Surat. Unit has also submitted an Environment audit report for the same to GPCB and the same is enclosed herewith as Annexure-6.</p> <p>ETP, RO Plant & MEE adequacy have been evaluated by a reputed institute i.e. Shree Dhanvantary College of Engineering & Technology, Environment Audit Laboratory, Kim, Surat along with other Environment Management systems & found adequate. Copy of the same is enclosed herewith as an Annexure-7.</p> <p>Environment Audit for FY-2023-24 was conducted by Schedule 1 auditor Shree Dhanvantary College of Engineering & Technology, Environment Audit Laboratory, Kim, Surat and the audit report is awaited.</p>																
2.4	Additional Imported Coal to the tune of 0.2 MT/hr shall be used as fuel in the existing Boilers for steam requirement for proposed Multiple Effect Evaporators.	<p>Complied.</p> <p>Unit is using Coal as fuel in Boilers. Steam for MEE is used from Existing Boilers.</p>																
2.5	Hazardous Waste Management shall be as under :	<p>Complied.</p> <p>Hazardous waste disposal data during Oct'23 to Mar'24 is tabulated below:</p>																

Environmental Clearance Compliance Report - October 23 to March 24

EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019

Sr. No	Type of Waste	Category	Quantity			Hazardous Waste management Disposal Facility	Status																																
			Existing	Proposed	Total																																		
1.	Empty Barrels/Containers/Liners contaminated with hazardous chemicals /wastes	33.1	225 MT/Year	00	225 MT/Year	Collection ,storage ,transportation & Disposal by sending it to authorized decontamination facility/recycler or reuse or send back to supplier.	<table border="1"> <thead> <tr> <th>Month</th> <th>Total Disposal Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>19.190</td> </tr> <tr> <td>Nov/23</td> <td>15.070</td> </tr> <tr> <td>Dec/23</td> <td>29.720</td> </tr> <tr> <td>Jan/24</td> <td>29.980</td> </tr> <tr> <td>Feb/24</td> <td>10.780</td> </tr> <tr> <td>Mar/24</td> <td>23.150</td> </tr> <tr> <td>Total</td> <td>127.89</td> </tr> </tbody> </table> <p>Disposal Quantity is well within the prescribed limits.</p>	Month	Total Disposal Quantity (MT)	Oct/23	19.190	Nov/23	15.070	Dec/23	29.720	Jan/24	29.980	Feb/24	10.780	Mar/24	23.150	Total	127.89																
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Total	127.89																																						
2	Chemical sludge from wastewater treatment plant	35.3	1200 MT/Year ETP waste	2880	4080 MT/Year ETP waste	Collection ,storage, Treatment ,transportation & Disposal at TSDF at BEIL	<table border="1"> <thead> <tr> <th>Month</th> <th>Total</th> <th>ETP Sludge</th> <th>MEE Salt</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>571.290</td> <td>544.320</td> <td>26.970</td> </tr> <tr> <td>Nov/23</td> <td>574.920</td> <td>542.940</td> <td>31.980</td> </tr> <tr> <td>Dec/23</td> <td>284.158</td> <td>254.368</td> <td>29.790</td> </tr> <tr> <td>Jan/24</td> <td>385.640</td> <td>359.320</td> <td>26.320</td> </tr> <tr> <td>Feb/24</td> <td>305.800</td> <td>237.990</td> <td>67.810</td> </tr> <tr> <td>Mar/24</td> <td>330.840</td> <td>246.510</td> <td>84.330</td> </tr> <tr> <td>Total</td> <td>2452.65</td> <td>2185.45</td> <td>267.20</td> </tr> </tbody> </table> <p>Disposal Quantity is well within the prescribed limits</p>	Month	Total	ETP Sludge	MEE Salt	Oct/23	571.290	544.320	26.970	Nov/23	574.920	542.940	31.980	Dec/23	284.158	254.368	29.790	Jan/24	385.640	359.320	26.320	Feb/24	305.800	237.990	67.810	Mar/24	330.840	246.510	84.330	Total	2452.65	2185.45	267.20
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Total	2452.65	2185.45	267.20																																				
3	Used or	5.1	2.3	00	2.3	Collection																																	

Environmental Clearance Compliance Report - October 23 to March 24

EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019

	spent Oil		MT/ Year		MT/ Year	,storage & reuse in plant & machineries or sell to authorized registered recyclers	Month	Total Disposal Quantity (MT)
							Oct/23	0.000
Nov/23	0.000							
Dec/23	0.000							
Jan/24	0.000							
Feb/24	7.180							
Mar/24	0.000							
Total	7.18							
<p>The unit has obtained CTE from the board and subsequently applying for CCA amendment application for increase in quantity of residue. Sample copy of Manifest of used or Spent Oil are enclosed as Annexure 26, for reference.</p>								
4	Any Process or distillation residue	36.1	480 MT/ Year	00	480 MT/ Year	Collection ,storage ,transportation & Disposal at common incinerator of BEIL/SEP PL	Month	Total Disposal Quantity (MT)
							Oct/23	185.780
							Nov/23	73.470
							Dec/23	121.210
							Jan/24	123.460
							Feb/24	181.170
							Mar/24	250.650
							Total	935.74
<p>The unit has obtained CTE from the board and subsequently applying for CCA amendment application for increase in quantity of residue.</p>								
5	Ash from	37.2	12.48	00	12.480	Collection	Incinerator Ash is not generated	

Environmental Clearance Compliance Report - October 23 to March 24

EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019

	incinerator & flue gas cleaning residue		0 MT/ Year		MT/ Year	,storage, Treatment, transportation & Disposal at TSDF at BEIL	as Incinerator has been dismantled and letter for dismantling of Incinerator has been enclosed herewith as <u>Annexure-11</u> Unit has removed the same from the latest CC&A Amendment No. H-119700 dated 09/09/2022 valid upto 07/06/2029																
6	Spent Carbon or filter medium	36.2	40.80 MT/ Year	00	40.80 MT/ Year	Collection, storage, transportation & Disposal at common incinerator of BEIL/SEPL	<table border="1"> <thead> <tr> <th>Month</th> <th>Total Disposal Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>0.00</td> </tr> <tr> <td>Nov/23</td> <td>0.00</td> </tr> <tr> <td>Dec/23</td> <td>7.19</td> </tr> <tr> <td>Jan/24</td> <td>0.00</td> </tr> <tr> <td>Feb/24</td> <td>0.00</td> </tr> <tr> <td>Mar/24</td> <td>5.57</td> </tr> <tr> <td>Total</td> <td>12.76</td> </tr> </tbody> </table> <p>Disposal Quantity is well within the prescribed limits.</p>	Month	Total Disposal Quantity (MT)	Oct/23	0.00	Nov/23	0.00	Dec/23	7.19	Jan/24	0.00	Feb/24	0.00	Mar/24	5.57	Total	12.76
Month	Total Disposal Quantity (MT)																						
Oct/23	0.00																						
Nov/23	0.00																						
Dec/23	7.19																						
Jan/24	0.00																						
Feb/24	0.00																						
Mar/24	5.57																						
Total	12.76																						
7	Inorganic Acids (Spent Acids)	B-15	86400 MT/ Year	00	86400 MT/ Year	Collection, storage, transportation & Disposal through end user who has valid permission under Rule-9 of Hazardous & other waste (M	<table border="1"> <thead> <tr> <th>Month</th> <th>Total Disposal Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>5734.070</td> </tr> <tr> <td>Nov/23</td> <td>5417.880</td> </tr> <tr> <td>Dec/23</td> <td>3347.320</td> </tr> <tr> <td>Jan/24</td> <td>4454.620</td> </tr> <tr> <td>Feb/24</td> <td>4786.480</td> </tr> <tr> <td>Mar/24</td> <td>5027.630</td> </tr> <tr> <td>Total</td> <td>28768.00</td> </tr> </tbody> </table> <p>Disposal Quantity is well within</p>	Month	Total Disposal Quantity (MT)	Oct/23	5734.070	Nov/23	5417.880	Dec/23	3347.320	Jan/24	4454.620	Feb/24	4786.480	Mar/24	5027.630	Total	28768.00
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Environmental Clearance Compliance Report - October 23 to March 24

EC Amendment : SEIAA/GUJ/EC/5(f)/893/2019, dated 19.06.2019

						& TBM) Rules-201 6	the prescribed limits.																
8	Spent Catalyst	28.2	7.440 MT/Year	00	7.440 MT/Year	Collection ,storage ,transport ation & Disposal by selling to authorise d recycler for Regenerat ion	<table border="1"> <thead> <tr> <th>Month</th> <th>Total Disposal Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>0.000</td> </tr> <tr> <td>Nov/23</td> <td>0.000</td> </tr> <tr> <td>Dec/23</td> <td>0.335</td> </tr> <tr> <td>Jan/24</td> <td>0.000</td> </tr> <tr> <td>Feb/24</td> <td>0.000</td> </tr> <tr> <td>Mar/24</td> <td>0.000</td> </tr> <tr> <td>Total</td> <td>0.34</td> </tr> </tbody> </table> <p>Disposal Quantity is well within the prescribed limits.</p>	Month	Total Disposal Quantity (MT)	Oct/23	0.000	Nov/23	0.000	Dec/23	0.335	Jan/24	0.000	Feb/24	0.000	Mar/24	0.000	Total	0.34
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Nov/23	0.000																						
Dec/23	0.335																						
Jan/24	0.000																						
Feb/24	0.000																						
Mar/24	0.000																						
Total	0.34																						
9	Fly Ash	Z-Z14	7560 MT/Year	00	7560 MT/Year	Collection ,storage ,transport ation & Disposal by selling to Brick manufact urer & Cement Industry	<table border="1"> <thead> <tr> <th>Month</th> <th>Total Disposal Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct/23</td> <td>974.650</td> </tr> <tr> <td>Nov/23</td> <td>823.340</td> </tr> <tr> <td>Dec/23</td> <td>519.870</td> </tr> <tr> <td>Jan/24</td> <td>623.570</td> </tr> <tr> <td>Feb/24</td> <td>564.570</td> </tr> <tr> <td>Mar/24</td> <td>882.720</td> </tr> <tr> <td>Total</td> <td>4388.72</td> </tr> </tbody> </table> <p>Disposal Quantity is well within the prescribed limits.</p>	Month	Total Disposal Quantity (MT)	Oct/23	974.650	Nov/23	823.340	Dec/23	519.870	Jan/24	623.570	Feb/24	564.570	Mar/24	882.720	Total	4388.72
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GUJARAT POLLUTION CONTROL BOARD

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

By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A)
CCA NO: AWH-119699

NO: GPCB/ANK/CCA-142(12)/ID-14855/_____

DT: ___/09/2022

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

And whereas Board has received consolidated application dated 27/04/2022 and inward no. 213886 for the consolidated consent and authorization (CC & A) of this Board under the provisions / rules of the aforesaid Acts, Consolidated Consent & Authorization is hereby granted as under.

CONSOLIDATED CONSENT AND AUTHORISATION:
(Under the provisions / rules of the aforesaid Environmental Acts)

To,
✓ M/s. AARTI INDUSTRIES LTD.,
PLOT NO: 758/1-2-3,
GIDC ESTATE JHAGADIA,
DIST-BHARUCH.

1. Consent Order No. : AWH-119699 date of Issue 29/06/2022.
2. The consent under Water Act -1974, Air Act - 1981 and Authorization under Environment (Protection) Act, 1986 shall be valid up to 07/06/2029 to operate industrial plant to manufacture following products:

Sr. No.	Products	Quantity (MT/Month)
1	Group-C DIETHYL SULPHATE	100
2	Group-A MONO NITRO DERIVATIVES OF BENZENE & CHLORO BENZENE PARA NITRO CHLORO BENZENE OR ORTHO NITRO CHLORO BENZENE OR ORTHO/PARA/META-NITRO CUMENE OR NITRO BENZENE OR 2,5 DICHLORO NITRO BENZENE OR 3,4 DICHLORO NITRO BENZENE OR ORTHO NITRO TOLUENE OR META NITRO TOLUENE OR PARA NITRO TOLUENE OR META NITRO CHLORO BENZENE OR 2,4 DI CHLORO NITRO BENZENE	6000

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Outward No: 6826209/190

3	GROUP-B DINITRO DERIVATIVES OF BENZENE & MCB DI NITRO BENZENE OR DI NITRO CHLORO BENZENES	3000
4	GROUP-D META CHLORO ANILINE OR PARA CHLORO ANILINE OR 3,4 DICHLORO ANILINE OR 2,3 DICHLORO ANILINE OR 2,5 DICHLOROANILINE OR META PHENYLENE DIAMINE OR PARA PHENYLENE DIAMINE OR ORTHO PHENYLENE DIAMINE OR ORTHO ANISIDINE OR PARA ANISIDINE OR CHLORO FLUORO ANILINE OR PARA CUMIDINE OR PARA AMINO PHENOL OR META AMINO PHENOL OR TOLUIDINES OR ORTHO CHLORO ANILINE OR 2,4 DICHLORO ANILINE	5000 (Total production of Sr. No. 4 &5 shall not exceed)
5	GROUP-D 2,6 DICHLOROANILINE OR 3,5 DICHLOROANILINE OR MIXTURE OF 2,4/2,5 DCA OR MIXTURE OF 2,5/2,6 DCA OR MIXTURE OF 2,4/2,5/2,6 DCA OR ORTHO CUMIDINE OR META CUMIDINE OR META ANISIDINE OR 2,4,5 TRICHLORO ANILINE OR ANILINE OR PARA FLORO ANILINE OR META FLORO ANILINE OR ORTHO FLORO ANILINE OR DI FLORO BENZENE OR 4-FLORO-N ISOPROPYLANILINE OR OTHER REDUCTION PRODUCT	
6	GROUP-E ONLY PHYSICAL SEPARATION ORTHO/PARA/META CHLORO TOLUENE	450
7	GROUP-F ONLY PHYSICAL SEPARATION OF 2,3 DCNB, 3,4 DCNB	550
8	CO-GENERATION POWER PLANT	4.50 MWH

Specific conditions:

- a) Unit shall comply with all the conditions stipulated by SEIAA in the order of Environment Clearance issued vide letter no. SEIAA/GUJ/EC/5(f)/893/2019, dated: 19/06/2019.
- b) Both units (PCB ID: 14855(Plot No.758/1-2-3) & PCB ID: 35534 (Plot No. 756/4A,B/5A,B/6/7 & 779) shall maintain ZLD.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

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- c) Unit shall use fresh raw material only.
- d) Unit shall sell out their hazardous waste to authorized endusers who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized endusers and submit MoU.
- e) 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.
- f) Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- g) Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.
- h) Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.
- i) Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.
- j) Unit shall install online Continuous Emission Monitoring Systems (CEMS) and link it with the server of GPCB for real time data transfer for boiler more than 8 TPH capacity or equivalent capacity of TFH.
- k) Unit shall provide fixed pipeline system to transfer the effluent from Unit-II to Unit-I for treatment & shall also provide metering system in order to keep the records of the effluent being transferred & treated in the Common/Combined ETP. Unit shall also provide storage tanks for collecting the permeate/condensate from RO/MEE for recycle purpose.
- l) Domestic w/w of Unit-I (ID:14855) 5 KLD & Unit-II (ID:35534) 38 KLD i.e. total 43 KLD shall be treated in common STP.
- m) Treated domestic w/w 13 KLD (in Unit-I) and 30 KLD (in Unit-II) shall be used for gardening & Plantation within premises.
- n) Industrial w/w of Unit-I (ID: 14855) 216 KLD and of Unit-II (ID: 35534) 140.84 KLD shall be treated in combined ETP at Unit-I (ID: 14855).
- o) Unit shall provide buffer water storage tank as adequate capacity for storage of treated w/w during rainy days.
- p) In case of non-compliance in performance of combined ETP & any breach of conditions for combined ETP both the units (ID: 14855 & 35534) will be responsible.
- q) Unit shall provide flow meter at inlet and outlet of ZLD system and maintain daily record of the same.

3. CONDITION UNDER THE WATER ACT:

3.1 The quantity of total water consumption shall not exceed **1118 KL/Day** as per below break up as mentioned in form D submitted for consent application under Water Act-1974.

- a) Domestic: 25 KL/Day
- b) Industrial: 1093 KL/Day

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3.2 The quantity of total waste water generation shall not exceed **436.84 KL/Day** as per below break up as mentioned in form D submitted for consent application under Water Act- 1974.

- a) Domestic: 43 KL/Day
- b) Industrial: 393.84 KL/Day

3.3 Mode of disposal of wastewater:

a) Total 43 KLD domestic w/w will be treated in STP to conform the following standards and treated w/w will be utilized (13 KLD in unit-1 and 30 KLD in unit-2) for gardening/plantation purpose.

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	Biochemical Oxygen Demand, BOD ₅ , 27° C	20 mg/L
2	Total Suspended Solids (TSS)	30 mg/L
3	Total Residual Chlorine	Minimum 0.5 ppm

- b) Out of total 393.84 KLD effluent, 66 KLD (concentrate stream) will be segregated and will be treated (Fenton Treatment) and will disposed through MEE-1 followed by ATFD-1. MEE condensate (64 KLD) shall be passed through ETP & RO.
- c) Out of remaining 327.84 KLD effluent, 128.84 KLD (dilute stream) shall be treated in primary, secondary and treatment plant followed by RO.
- d) Remain 174 KLD (utility effluent) and 25 KLD (boiler blowdown) shall be treated separately to remove silica then mix with remain utility stream followed by RO.
- e) Reject of RO (99 KLD) shall be passed through MEE followed by ATFD.
- f) Out of total 383 KLD [RO permeate (292 KLD) and MEE condensate (91 LD)], 210 KLD will be utilized in cooling tower of unit-1 and remaining 173 KLD shall be utilized in cooling tower of unit-2 thereby achieving ZLD.
- g) Treated w/w from combined ETP shall be reused in cooling tower as follows:
 - Unit-I (ID:14855) : 210 KLD
 - Unit-II (ID:35534) : 173 KLD

3.4 Unit shall affix of water meters as per Section 4 (1) of the water (Prevention and Control of Pollution) Cess Act - 1977 for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.

3.5 The GIDC drainage connection given by the GIDC for discharge of industrial effluent shall be disconnected & the outlet shall be sealed.

3.6 Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent.

3.7 In case of incinerators, the flow measuring devices for mother liquor/ toxic effluent/ Non-biodegradable effluent, light diesel etc. i.e. fuel used for combustion, air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.

3.8 The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environment safeguards and other conditions stipulated by statutory



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PARYAVARAN BHAVAN, SECTOR 10-A,

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authorities. The Environmental Management Cell / Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issues. These Cells also coordinate the exercise of environmental audit and preparation of environmental statements.

- 3.9 The Environmental audit shall be carried out yearly, if applicable. The environmental statements pertaining to the previous year shall be submitted to this State Board latest by 30th June every year.
- 3.10 The Board reserves the right to review and/or revoke the consent and / or make modifications in the conditions which it seems fit in accordance with provisions of Water Act-1974.

4. CONDITIONS UNDER THE AIR ACT:

- 4.1 The following shall be used as fuel:

Sr. No.	Name of fuel	Quantity
1	COAL/ Lignite / Bio mass	Coal /Lignite (70 30) 22 MT/hr.
2	HSD	880 Lit/hr.

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

Stack No.	Stack attached to	Capacity	Stack Height in Meter (From G.L.)	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
1	IBR water tube Boiler	30 TPH	40	ESP	PM SO ₂ NO _x	150 mg/Nm ³ 100 ppm 50ppm
2	Steam Boiler	17 TPH	40	ESP + multi cyclone		
3	DG Sets-4 nos.	1010 KVA each	11	--		
4	Thermopack	20 Lac KCal/Hr	30	Bag filter		
5	Boiler	50 TPH	40	ESP		

* Existing FO Based Boiler (10 TPH) shall be dismantled.

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

Stack No.	Stack attached to	Stack Height in Meter (From G.L.)	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
1.	Nitration plant	12	Sulfuric acid scrubber followed by caustic scrubber	NO _x	25 mg/Nm ³

- 4.3 The concentration of the following parameters in the ambient air within the premises of the unit shall not exceed the limits specified hereunder.

Sr. No.	Parameters	Permissible Limit (microgram /m ³)	
		Annual	24 Hours Average
1.	Particulate Matter (PM ₁₀)	60	100
2.	Particulate Matter (PM _{2.5})	40	60
3.	Oxides of Sulphur (SO _x)	50	80
4.	Oxides of Nitrogen (NO _x)	40	80

- Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
 - 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.
- 4.4 Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified as above.
- 4.5 The consent to operate the industrial plant shall lapse if at any time the parameters of the gaseous emission are not within the tolerance limits specified as above.
- 4.6 Unit shall provide portholes, ladder, platform etc at chimney(s) for monitoring the air emissions and the same shall be open for inspection to/and for use of Board's staff. The chimney(s) vents attached to various sources of emission shall be designed by numbers such as S-1, S-2, etc. and these shall be painted/ displayed to facilitate identification.
- 4.7 Unit shall take adequate measures for control of noise levels from its own sources within the premises so as to maintain ambient air quality standards in respect of noise to less than 75 dB(a) during day time and 70 dB (A) during night time. Daytime is reckoned in between 6a.m. and 10 p.m. and nighttime is reckoned between 10 p.m. and 6 a.m.
- 4.8 All efforts shall be made to control VOC emissions and odor problem, if any.

5 GENERAL CONDITIONS: -

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



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PARYAVARAN BHAVAN, SECTOR 10-A,
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6. **AUTHORISATION FOR THE MANAGEMENT & HANDLING OF HAZARDOUS WASTES Form-2 (See rule 6(2)).**
- 6.1 Number of authorization: **AWH-119699 date of Issue 29/06/2022.**
- 6.2 **M/s. AARTI INDUSTRIES LTD.** is hereby granted an authorization to operate facility for following hazardous wastes on the premises situated at **PLOT NO: 758/1-2-3, GIDC ESTATE JHAGADIA, DIST: BHARUCH.**

Sr. No.	Name of Haz. Waste	Category Number	Quantity in MT/Year	Facility
1	Empty barrels/ containers/ liners contaminated with hazardous chemicals/ wastes	33.1	225	Collection, storage, transportation and disposal by send it to authorized decontamination facility/ recycler or reuse or send back to supplier.
2	Chemical sludge from waste water treatment	35.3	2480 (ETP waste) 320 (MEE waste)	Collection, storage, treatment, transportation and dispose at TSDF at BEIL.
3	Used or Spent oil	5.1	2.3	Collection, storage, reuse in plant and machineries or sell to authorized registered recyclers.
4	Any process or distillation residue	36.1	480	Collection, storage, transportation and dispose at common incinerator of BEIL/SEPPL.
5	Ash from incinerator and flue gas cleaning residue	37.2	12.48	Collection, storage, transportation and dispose at TSDF at BEIL.
6	Spent carbon or filter medium	36.2	40.8	Collection, storage, transportation and dispose at common incinerator of BEIL/SEPPL.
7	Inorganic acids (spent acids)	B15	86400	Collection, storage, transportation and disposed through end user who has valid permission under Rule-9 of hazardous and other waste rules-2016 after making MoU.
8	Spent catalyst	28.2	7.44	Collection, storage, transportation and disposal by selling to authorized recycler for regeneration.
9	Fly ash	Z14	7560	Collection, storage, transportation and disposal by selling or Brick

				manufacture or cement industry.
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- 6.3 The authorization is granted to operate a facility as above.
- 6.4 The authorization shall be in force for a period **up to 07/06/2029.**
- 6.5 The authorization is subject to the conditions stated below and such other conditions as may be specified in the rules from time to time under the Environment (Protection) Act-1986.
- 7. TERMS AND CONDITIONS OF AUTHORISATION:**
- 7.1 The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- 7.2 The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the Gujarat Pollution Control Board.
- 7.3 The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
- 7.4 Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
- 7.5 The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
- 7.6 The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on "Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty"
- 7.7 It is the duty of the authorised person to take prior permission of the Gujarat Pollution Control Board to close down the facility.
- 7.8 The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
- 7.9 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
- 7.10 The hazardous and other waste which gets generated during recycling or reuse or recovery or pre-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorization.
- 7.11 The importer or exporter shall bear the cost of import or export and mitigation of damages if, any.
- 7.12 An application for the renewal of an authorization shall be made as laid down under Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016.
- 7.13 Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
- 7.14 Annual return shall be filed by June 30th for the period ensuring 31st March of the year.
- 7.15 Unit shall have to display the relevant information with regard to hazardous waste as indicated in the Court's order in W.P. No. 657 of 1995 dated 14th October 2003.
- 7.16 Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.



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- 7.17 Unit shall have to manage used or spent oil; empty or discarded barrels / containers / liners contaminated with hazardous chemicals / wastes, process waste as per Hazardous & Other Wastes (Management and Transboundary Movement) Rules-2016, framed under the E(P)Act-1986 and shall apply Authorization for all applicable waste.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

(Arun G. Patel)
ENVIRONMENT ENGINEER

Outward No:682662,09/09/2022

Clean Gujarat Green Gujarat

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

Outward No:682662,09/09/2022



GUJARAT POLLUTION CONTROL BOARD

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

By R.P.A.D.

**CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A - Amendment)
CCA AMENDMENT NO: H-119700**

NO: GPCB/ANK/CCA-142(12)/ID-14855/_____

DT: ___/09/2022

To,
M/s. AARTI INDUSTRIES LTD.,
PLOT NO: 758/1-2-3,
GIDC ESTATE JHAGADIA,
DIST-BHARUCH.

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

REF: (1) Your application No. 204968 dated 24/11/2021.
(2) CCA No. AWH - 119699 dated: 09/09/2022. (CCA Renewal)

Sir,

This has reference to the CCA order No: AWH-119699, issued vide letter no. GPCB/ANK/CCA-142(12)/ID-14855682662, dated 09/09/2022 under the provisions of the various Environmental Act/ Rules, which stands amended as under.

The Validity of this order will be up to 07/06/2029.

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

2. Specific conditions:

- Unit shall comply with all the conditions stipulated by SEIAA in the order of Environment Clearance issued vide letter no. SEIAA/GUJ/EC/5(f)/893/2019, dated: 19/06/2019.
- Unit shall maintain ZLD.
- Unit shall use fresh raw material only.
- Unit shall sell out their hazardous waste to authorized endusers who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized endusers and submit MoU.
- All the efforts shall be made to send hazardous waste to cement industry for Co- processing first & there after it shall be disposed through other option.
- Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.

3. CONDITION UNDER THE WATER ACT:

3.1 There shall be no change in water consumption, wastewater generation and their mode of disposal from proposed changes.

4. CONDITIONS UNDER THE AIR ACT:

4.1 There shall be no change in fuel consumption & flue gas emission from proposed changes.

4.2 There shall be no change in process gas emission from proposed changes.

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

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

5.2 The condition No. 6.2 under authorization for Hazardous & other wastes of the CCA order No: AWH-119699, issued vide letter no. GPCB/ANK/CCA-142(12)/ID-14855682662, dated 09/09/2022 is amended and shall now be read as under.

Sr. No.	Name of Haz. Waste	Cate. Num	Quantity in MT/Year			Facility
			Exi.	Pro.	Total	
1	Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	33.1	225	--	225	Collection, Storage, Transportation, Disposal by sending it to an authorized decontamination facility/ recycler or reuse after decontamination or send back to the supplier or disposal at TSDF or Pre-Processing or Co-Processing at cement industry
2	Chemical Sludge from wastewater Treatment	35.3	2480 (ETP waste)	--	2480 (ETP waste)	Collection, Storage, Transportation, disposal to common TSDF or Pre-Processing or Co-Processing at cement industry
			320 (MEE waste)	--	320 (MEE waste)	
3	Used or Spent Oil	5.1	2.3	--	2.3	Collection, Storage, reuse in plant & machinery or sell to authorized register recyclers.
4	Any Process or Distillation Residue	36.1	480	--	480	Collection, Storage, Transportation, disposal by CHWIF or Pre-Processing or Co-Processing at cement industry
5	Ash from incineration and flue gas cleaning residue	37.2	12.48	--	12.48	Collection, storage, transportation & disposal at common TSDF.
6	Spent carbon or filter medium	36.2	40.80	--	40.80	Collection, storage, transportation & disposal at CHWIF or Pre-Processing or Co-Processing at cement industry



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

7	Inorganic Acids (Spent Acids)	B15/26.3	86400	--	86400	Collection, Storage, Transportation, Disposed through end user who has valid permission under Rule-9 of Hazardous and Other Waste (M&TBM) Rules-2016 or Co Processing or as per CPCB SOPs which are released under Rule-9
8	Spent Catalyst	28.2	7.44	--	7.44	Collection, storage, transportation & disposal by selling to authorized recyclers for regeneration
9	Fly Ash	Z14	7560	--	7560	Collection, Storage, Transportation, Sold to Brick Manufacturer or other use i.e road construction or Co-Processing at cement industry
10	Insulation waste/ Thermocol	S1	--	80	80	Collection, storage, Transportation, disposal to common TSDF
11	PPE's Waste	33.2	--	100	100	Collection, Storage, Transportation disposal to common TSDF.
12	Battery waste	--	--	1500 Nos.	1500 Nos.	Collection, Storage, Transportation, Disposal by selling to authorized recyclers or send back to suppliers (Buyback)
13	Glass Waste	S7	--	10	10	Collection, Storage, Transportation, disposal /sold to scrap processors/Recyclers.
14	Cotton waste	33.2	--	25	25	Collection, Storage, Transportation disposal at TSDF Site or Pre-Processing or Co-Processing at cement industry.
15	Asbestos waste	15.2	--	100	100	Collection, Storage, Transportation disposal at TSDF Site.
16	Paper, paperboard and paper	B3	--	200	200	Collection, Storage, Transportation & disposal at TSDF

Clean Gujarat Green Gujarat

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

	product wastes					Site/Incineration or Pre-Processing or Co-Processing at cement industry in case of contamination Or Sell out to Paper recyclers after shredding in case of Non contamination.
--	----------------	--	--	--	--	---

- 6 All other conditions of the CCA order No: AWH-119699, issued vide letter no. GPCB/ANK/CCA-142(12)/ID-14855682662, dated 09/09/2022 will remain same.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD



(Arun G. Patel)
ENVIRONMENT ENGINEER

Outward No:682673,09/09/2022

WATER B.I.

Party Name	M/s. Aarti Industries Limited	Plat No.	755/1,2,3
Address	755/1,2,3	Conn. Clean QTY	0.00
Category	INDUSTRIAL	Size (R.M.)	100
Bill No.	120Oct23	Bill Month	Oct-23
		Conn No.	12
		Bill Date	07-Nov-23

Year Account Summary -		Last Date - 22-Nov-23	
Total Outstanding Amount	Total Interest	This Month Charges	Total Amount Payable
0.00	0.00	1552021.40	1552021
Last Bill Pay Amount -	1112577.08	0.00	Last Bill Pay Date -
			19-Oct-23

This Month's Charges :-		Year Account Details :-	
Meter Status	Normal	Outstanding	0.00
Current Reading	367002	Interest Rs	0.00
Previous Reading	332241	Penal Interest Rs	0.00
Consumption	0.00	This Month's Charges	1552021.40
Rate / 1000 Ltr	53.73	Gross Amount	1552021.40
Normal Water Usage Charges	0.00	Net Amount (Before Last Date)	1552021.00
Excess Water Usage Charge	0.00	Amount Payable After Last Date	
Fix Charges/Minimum	0.00	Interest Rs	15522.01
Penalty	0.00	Penal Interest Rs	4648.00
Arrears And	0.00	Gross Amount	1552441.41
This Month's Charges	1552021.40	Net Amount After Last Date	1552441.00

Payment Details

Chief Officer

NAA, G.I.D.C., Janghda

Payment Mode	Amount	Date	Cheque/D.D. No.	Date	Bank	Branch

Bank Copy		
Party Name	M/s. Aarti Industries Limited	
Property	755/1,2,3	
Bill No.	120Oct23	
Bill Date	07-Nov-23	
Connection	12	
Payable Before	22-Nov-23	1,559,201.40
Payable After	22-Nov-23	1,582,441.41
Payment Mode	Cheq/D.D. / Cash	
Amount	1582441.41	
in Words Rs.	Fifteen Lakh Ninety Two Thousand Two Hundred Fourty One	
Receipt Date		
Cheq/D.D. No.	Cheq/D.D. Dd	
Bank		
Branch		
Contact No.		

Water Supply JHD NA Copy		
Party Name	M/s. Aarti Industries Limited	
Property	755/1,2,3	
Bill No.	120Oct23	
Bill Date	07-Nov-23	
Connection	12	
Payable Before	22-Nov-23	1,559,201.40
Payable After	22-Nov-23	1,582,441.41
Payment Mode	Cheq/D.D. / Cash	
Amount	1582441.41	
in Words Rs.	Fifteen Lakh Ninety Two Thousand Two Hundred Fourty One	
Receipt Date		
Cheq/D.D. No.	Cheq/D.D. Dd	
Bank		
Branch		
Contact No.		

- Note :**
- Water charges shall have to be paid in favour of "WATER SUPPLY JHD/NDH NOTIFIED AREA" at Bank of Baroda - GDC, Janghda Branch having A/C/BR/NO. 902200000157 FFDG-IFSC CODE: BAROD01A0A. Water charges if not paid within stipulated date of payment will attract the interest (1% per annum) and Penal interest (2% per annum).
 - Use of water beyond O.P.C.S. Consent is an offence. If found, the water supply will be disconnected without further notice and the supply will be reconnected to O.P.C.S. When a quantity consistent is not this.
 - The Effective Water Rate from 01/04/2023 is Rs. 52.60/Per KL + CSH Fund Rs 1.10 = Rs. 53.70
 - The Management of water supply network is awarded to M/s. Saurashtra Water Supply Co. Pvt. Ltd. For any complaint contact their representative on Tel. No. +91-79-26268222/26268223 & 793366701, 8707121062. Email: saurwater@wsspl.com



NOTIFIED AREA AUTHORITY GIDC JHAGADIA

Office of the Chief Officer NAA, GIDC, JHAGADIA
Plot No. 40, Road No. 8, Near Pepsico Co. GIDC Jhagadia

CONSUMER COPY

WATER BILL

Party Name : M/s. Aarti Industries Limited
Address : 758/1,2,3

Plot No. 758/1,2,3

Conn Given Qty 0.00

Category	INDUSTRIAL	Size (M.M.)	100	Conn No.	12
Bill No.	10\Nov\23	Bill Month	Nov-23	Bill Date	12-Dec-23

Your Account Summary :-

Last Date :- 27-Dec-23

Total Outstanding Amount	Total Interest	This Month Charges	Total Amount Payable
0.00	0.00	1787136.00	1787136

Last Bill Pay Amount :- 1859201.00 0.00

Last Bill Pay Date :- 16-Nov-23

This Month's Charges :-

Meter Status	Normal.
Current Reading	401143
Previous Reading	367863
Consumption	0.00 33280
Rate / 1000 Ltr.	53.70
Normal Water Usage Charges	0.00 1787136.00
Excess Water Usage Charges	0.00
Fix Charges/Minimum	0.00
Penalty	0.00
Annexure Amt.	0.00
This Month's Charges :	1787136.00

Your Account Details :-

Outstanding	0.00
Interest Rs	0.00
Penal Interest Rs	0.00
This Month Charges	1787136.00
Gross Amount	1787136.00
Net Amount (Before Last Date)	1787136.00
Amount Payable After Last Date	
Interest Rs	17871.36
Penal Interest Rs	4467.84
Gross Amount	1809475.20
Net Amount After Last Date	1809475.00

Payment Details

Chief Officer
NAA, G.I.D.C., Jhagadia

Payment Mode	Amount	Date	Cheque/D.D. No.	Date	Bank	Branch

Bank Copy

Party Name	M/s. Aarti Industries Limited
Property	758/1,2,3
Bill No	10\Nov\23
Bill Date	12-Dec-23
Connection	12
Payable Before	27-Dec-23 1,787,136.00
Payable After	27-Dec-23 1,809,475.20
Payment Mode :	Chq/D.D. / Cash
Amount	
In Words Rs.	Seventeen Lakh Eighty Seven Thousand One Hundred Thirty Six
Receipt Date	
Chq/D.D. No.	Chq/D.D. Dt :
Bank	
Branch	
Contact No.	

Water Supply JHG NA Copy

Party Name	M/s. Aarti Industries Limited
Property	758/1,2,3
Bill No	10\Nov\23
Bill Date	12-Dec-23
Connection	12
Payable Before	27-Dec-23 1,787,136.00
Payable After	27-Dec-23 1,809,475.20
Payment Mode :	Chq/D.D. / Cash
Amount	
In Words Rs.	Seventeen Lakh Eighty Seven Thousand One Hundred Thirty Six
Receipt Date	
Chq/D.D. No.	Chq/D.D. Dt :
Bank	
Branch	
Contact No.	

Note :

- Water charges shall have to be paid in favour of " WATER SUPPLY JHAGADIA NOTIFIED AREA " at Bank of Baroda - GIDC Jhagadia, Branch bearing ACCOUNT NO. 5607020000107 RTGS IFSC CODE: BARB0JHABHA, Water charges if not paid within stipulated date of payment will attract the interest (12% per annum) and Penal interest (3% per annum)
- Use of water beyond GPCB Consent is an offence. If found, the water supply will be disconnected without further notice and the same will be intimated to GPCB. Rivent if quantity considered is not true. *
- The Effective Water Rate from 01/04/2023 is Rs. 52.60 Per KL + CSR Fund Rs.1.10 = Rs. 53.70
- The Management of water supply scheme is awarded to M/s Sachin Water Supply Co. Pvt. Ltd. For any complaint contact their representative on his Cell No. +91-7600059722/23/24/25 & 7600059721; 97277 31065_OR email: sachinwatersupply@gmail.com



NOTIFIED AREA AUTHORITY GIDC JHAGADIA

Office of the Chief Officer NAA, GIDC, JHAGADIA
Plot No. 40, Road No. 8, Near Pepsico Co. GIDC Jhagadia

CONSUMER COPY

WATER BILL

Party Name : M/s. Aarti Industries Limited
Address : 758/1,2,3

Plot No. 758/1,2,3
Conn Given Qty 0.00

Category	INDUSTRIAL	Size (M.M.)	100	Conn No.	12
Bill No.	10\Dec\23	Bill Month	Dec-23	Bill Date	10-Jan-24

Your Account Summary :-

Last Date :- 25-Jan-24

Total Outstanding Amount	Total Interest	This Month Charges	Total Amount Payable
0.00	0.00	1858664.40	1858664

Last Bill Pay Amount :- 1787136.00 0.00

Last Bill Pay Date :- 26-Dec-23

This Month's Charges :-

Meter Status	Normal
Current Reading	435755
Previous Reading	401143
Consumption	0.00 34612
Rate / 1000 Ltr.	53.70
Normal Water Usage Charges	0.00 1858664.40
Excess Water Usage Charges	0.00
Fix Charges/Minimum	0.00
Penalty	0.00
Annexure Amt.	0.00
This Month's Charges :	1858664.40

Your Account Details :-

Outstanding	0.00
Interest Rs	0.00
Penal Interest Rs	0.00
This Month Charges	1858664.40
Gross Amount	1858664.40
Net Amount (Before Last Date)	1858664.00
Amount Payable After Last Date	
Interest Rs	18586.64
Penal Interest Rs	4646.66
Gross Amount	1881897.70
Net Amount After Last Date	1881898.00

Chief Officer

NAA, G.I.D.C., Jhagadia

Payment Details

Payment Mode	Amount	Date	Cheque/D.D. No.	Date	Bank	Branch

Bank Copy

Party Name	M/s. Aarti Industries Limited
Property	758/1,2,3
Bill No	10\Dec\23
Bill Date	10-Jan-24
Connection	12
Payable Before	25-Jan-24 1,858,664.40
Payable After	25-Jan-24 1,881,897.70
Payment Mode :	Chq/D.D. / Cash
Amount	Eighteen Lakh Fifty Eight Thousand Six Hundred Sixty Four
in Words Rs.	Eighteen Lakh Fifty Eight Thousand Six Hundred Sixty Four
Receipt Date	
Chq/D.D. No.	Chq/D.D. Dt :
Bank	
Branch	
Contact No.	

Water Supply JHG NA Copy

Party Name	M/s. Aarti Industries Limited
Property	758/1,2,3
Bill No	10\Dec\23
Bill Date	10-Jan-24
Connection	12
Payable Before	25-Jan-24 1,858,664.40
Payable After	25-Jan-24 1,881,897.70
Payment Mode :	Chq/D.D. / Cash
Amount	Eighteen Lakh Fifty Eight Thousand Six Hundred Sixty Four
in Words Rs.	Eighteen Lakh Fifty Eight Thousand Six Hundred Sixty Four
Receipt Date	
Chq/D.D. No.	Chq/D.D. Dt :
Bank	
Branch	
Contact No.	

Note :

- Water charges shall have to be paid in favour of " WATER SUPPLY JHAGADIA NOTIFIED AREA " at Bank of Baroda - GIDC Jhagadia, Branch bearing ACCOUNT NO. 5607020000107 RTGS IFSC CODE: BARB0JHABHA, Water charges if not paid within stipulated date of payment will attract the interest (12% per annum) and Penal interest (3% per annum)
- Use of water beyond GPCB Consent is an offence. If found, the water supply will be disconnected without further notice and the same will be intimated to GPCB. Rivert if quantity considered is not true. *
- The Effective Water Rate from 01/04/2023 is Rs. 52.60 Per KL + CSR Fund Rs.1.10 = Rs. 53.70
- The Management of water supply scheme is awarded to M/s Sachin Water Supply Co. Pvt. Ltd. For any complaint contact their representative on his Cell No. +91- 7600059722/23/24/25 & 7600059721; 97277 31065_QR email: sachinwatersupply@gmail.com



NOTIFIED AREA AUTHORITY GIDC JHAGADIA

Office of the Chief Officer NAA, GIDC, JHAGADIA

Plot No. 40, Road No. 8, Near Pepsico Co. GIDC Jhagadia

CONSUMER COPY

WATER BILL

Party Name : M/s. Aarti Industries Limited
Address : 758/1,2,3

Plot No. 758/1,2,3
Conn Given Qty 0.00

Category	INDUSTRIAL	Size (M.M.)	100	Conn No.	12
Bill No.	10\Jan\24	Bill Month	Jan-24	Bill Date	07-Feb-24

Your Account Summary :-

Last Date :- 22-Feb-24

Total Outstanding Amount	Total Interest	This Month Charges	Total Amount Payable
-8162.00	0.00	1816509.90	1808348

Last Bill Pay Amount :- 1866826.00 0.00

Last Bill Pay Date :- 17-Jan-24

This Month's Charges :-

Meter Status	Normal
Current Reading	469582
Previous Reading	435755
Consumption	0.00 33827
Rate / 1000 Ltr.	53.70
Normal Water Usage Charges	0.00 1816509.90
Excess Water Usage Charges	0.00
Fix Charges/Minimum	0.00
Penalty	0.00
Annexure Amt.	0.00
This Month's Charges :	1816509.90

Your Account Details :-

Outstanding	-8162.00
Interest Rs	0.00
Penal Interest Rs	0.00
This Month Charges	1816509.90
Gross Amount	1808347.90
Net Amount (Before Last Date)	1808348.00

Amount Payable After Last Date

Interest Rs	18083.48
Penal Interest Rs	4520.87
Gross Amount	1830952.25
Net Amount After Last Date	1830952.00

Payment Details

Chief Officer
NAA, G.I.D.C., Jhagadia

Payment Mode	Amount	Date	Cheque/D.D. No.	Date	Bank	Branch

Bank Copy

Party Name	M/s. Aarti Industries Limited
Property	758/1,2,3
Bill No	10\Jan\24
Bill Date	07-Feb-24
Connection	12
Payable Before	22-Feb-24 1,808,347.90
Payable After	22-Feb-24 1,830,952.25
Payment Mode :	Chq/D.D. / Cash
Amount	Eighteen Lakh Eight Thousand Three Hundred Forty Eight
In Words Rs.	
Receipt Date	
Chq/D.D. No.	Chq/D.D. Dt :
Bank	
Branch	
Contact No.	

Water Supply JHG NA Copy

Party Name	M/s. Aarti Industries Limited
Property	758/1,2,3
Bill No	10\Jan\24
Bill Date	07-Feb-24
Connection	12
Payable Before	22-Feb-24 1,808,347.90
Payable After	22-Feb-24 1,830,952.25
Payment Mode :	Chq/D.D. / Cash
Amount	Eighteen Lakh Eight Thousand Three Hundred Forty Eight
In Words Rs.	
Receipt Date	
Chq/D.D. No.	Chq/D.D. Dt :
Bank	
Branch	
Contact No.	

Note :

- Water charges shall have to be paid in favour of " WATER SUPPLY JHAGADIA NOTIFIED AREA " at Bank of Baroda - GIDC Jhagadia, Branch bearing ACCOUNT NO. 5607020000107 RTGS IFSC CODE: BARB0JHABHA, Water charges if not paid within stipulated date of payment will attract the interest (12% per annum) and Penal interest (3% per annum)
- Use of water beyond GPCB Consent is an offence. If found, the water supply will be disconnected without further notice and the same will be intimated to GPCB. Rivert if quantity considered is not true. *
- The Effective Water Rate from 01/04/2023 is Rs. 52.60 Per KL + CSR Fund Rs.1.10 = Rs. 53.70
- The Management of water supply scheme is awarded to M/s Sachin Water Supply Co. Pvt. Ltd. For any complaint contact their representative on his Call No. +91- 7600059722/23/24/25 & 7600059721; 97277 31065_QR email: sachinwatersupply@gmail.com



01JHAG2023040468

Handwritten signatures and initials in blue ink.



NOTIFIED AREA AUTHORITY GIDC JHAGADIA

Office of the Chief Officer NAA, GIDC, JHAGADIA

Plot No. 40, Road No. 8, Near Pepsico Co. GIDC Jhagadia

CONSUMER COPY

WATER BILL-

Party Name : M/s. Aarti Industries Limited	Plot No. 758/1,2,3
Address : 758/1,2,3	Conn Given Qty 0.00
Category INDUSTRIAL	Size (M.M.) 100
Conn No. 12	Conn No. 12
Bill No. 10\Feb\24	Bill Month Feb-24
	Bill Date 11-Mar-24

Your Account Summary :-

Last Date :- 26-Mar-24

Total Outstanding Amount	Total Interest	This Month Charges	Total Amount Payable
-8162.00	0.00	1737409.80	1729248

Last Bill Pay Amount :- 1816510.00 0.00

Last Bill Pay Date :- 21-Feb-24

This Month's Charges :-

Meter Status	Normal
Current Reading	501936
Previous Reading	469582
Consumption	0.00 32354
Rate / 1000 Ltr.	53.70
Normal Water Usage Charges	0.00 1737409.80
Excess Water Usage Charges	0.00
Fix Charges/Minimum	0.00
Penalty	0.00
Annexure Aml.	0.00
This Month's Charges :	1737409.80

Your Account Details :-

Outstanding	-8162.00
Interest Rs	0.00
Penal Interest Rs	0.00
This Month Charges	1737409.80
Gross Amount	1729247.80
Net Amount (Before Last Date)	1729248.00
Amount Payable After Last Date	
Interest Rs	17292.48
Penal Interest Rs	4323.12
Gross Amount	1750863.40
Net Amount After Last Date	1750863.00

Payment Details

Chief Officer
NAA, G.I.D.C., Jhagadia

Payment Mode	Amount	Date	Cheque/D.D. No.	Date	Bank	Branch

Bank Copy

Party Name	M/s. Aarti Industries Limited	
Property	758/1,2,3	
Bill No	10\Feb\24	
Bill Date	11-Mar-24	
Connection	12	
Payable Before	26-Mar-24	1,729,247.80
Payable After	26-Mar-24	1,750,863.40
Payment Mode :	Chq/D.D. / Cash	
Amount	Seventeen Lakh Twenty Nine Thousand Two Hundred Forty Eight	
in Words Rs.	Seventeen Lakh Twenty Nine Thousand Two Hundred Forty Eight	
Receipt Date		
Chq/D.D. No.	Chq/D.D. Dt :	
Bank		
Branch		
Contact No.		

Water Supply JHG NA Copy

Party Name	M/s. Aarti Industries Limited	
Property	758/1,2,3	
Bill No	10\Feb\24	
Bill Date	11-Mar-24	
Connection	12	
Payable Before	26-Mar-24	1,729,247.80
Payable After	26-Mar-24	1,750,863.40
Payment Mode :	Chq/D.D. / Cash	
Amount	Seventeen Lakh Twenty Nine Thousand Two Hundred Forty Eight	
in Words Rs.	Seventeen Lakh Twenty Nine Thousand Two Hundred Forty Eight	
Receipt Date		
Chq/D.D. No.	Chq/D.D. Dt :	
Bank		
Branch		
Contact No.		

Note :

- Water charges shall have to be paid in favour of " WATER SUPPLY JHAGADIA NOTIFIED AREA " at Bank of Baroda - GIDC Jhagadia, Branch bearing ACCOUNT NO. 5607020000107 RTGS IFSC CODE: BARBOJHABHA . Water charges if not paid within stipulated date of payment will attract the interest (12% per annum) and Penal interest (3% per annum)
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- The Effective Water Rate from 01/04/2023 is Rs. 52.60 Per KL + CSR Fund Rs.1.10 = Rs. 53.70
- The Management of water supply scheme is awarded to M/s Sachin Water Supply Co. Pvt. Ltd. For any complaint contact their representative on his Cell No. +91- 7600059722/23/24/25 & 7600059721; 97277 31065_QR email: sachinwatersupply@gmail.com

13/3/2024



NOTIFIED AREA AUTHORITY GIDC JHAGADIA

Office of the Chief Officer NAA, GIDC, JHAGADIA
Plot No. 40 Road No. 8, Near Pepsico Co. GIDC Jhagadia

CONSUMER COPY

WATER BILL

Party Name : M/s. Aarti Industries Limited
Address : 758/1,2,3

Plot No. 758/1,2,3
Conn Given Qty 0.00

Category INDUSTRIAL Size (M.M.) 100
Bill No. 10/Mar24 Bill Month Mar-24

Conn No. 12
Bill Date 08-Apr-24

Your Account Summary

Last Date :- 23-Apr-24

Total Outstanding Amount	Total Interest	This Month Charges	Total Amount Payable
-8162.00	0.00	1856086.80	1847925

Last Bill Pay Amount :- 1737410.00 0.00

Last Bill Pay Date :- 22-Mar-24

This Month's Charges :-

Your Account Details :-

Meter Status	Normal
Current Reading	536500
Previous Reading	501936
Consumption	0.00 34564
Rate / 1000 Ltr.	53.70
Normal Water Usage Charges	0.00 1856086.80
Excess Water Usage Charges	0.00
Fix Charges/Minimum	0.00
Penalty	0.00
Annexure Amt	0.00
This Month's Charges	1856086.80

Outstanding	-8162.00
Interest Rs	0.00
Penal Interest Rs	0.00
This Month Charges	1856086.80
Gross Amount	1847924.80
Net Amount (Before Last Date)	1847925.00

Amount Payable After Last Date

Interest Rs	18479.25
Penal Interest Rs	4619.81
Gross Amount	1871023.86
Net Amount After Last Date	1871024.00

Chief Officer

NAA, G.I.D.C., Jhagadia

Payment Details

Payment Mode	Amount	Date	Cheque/D.D. No.	Date	Bank	Branch
--------------	--------	------	-----------------	------	------	--------

Bank Copy

Water Supply JHG NA Copy

Party Name M/s. Aarti Industries Limited
Property 758/1,2,3
Bill No 10/Mar24
Bill Date 08-Apr-24
Connection 12
Payable Before 23-Apr-24 1,847,924.80
Payable After 23-Apr-24 1,871,023.86
Payment Mode : Chq/D.D. / Cash
Amount Eighteen Lakh Forty Seven Thousand Nine Hundred Twenty Five
in Words Rs.
Receipt Date
Chq/D.D. No. Chq/D.D. Dt :
Bank
Branch
Contact No.

Party Name M/s. Aarti Industries Limited
Property 758/1,2,3
Bill No 10/Mar24
Bill Date 08-Apr-24
Connection 12
Payable Before 23-Apr-24 1,847,924.80
Payable After 23-Apr-24 1,871,023.86
Payment Mode : Chq/D.D. / Cash
Amount Eighteen Lakh Forty Seven Thousand Nine Hundred Twenty Five
in Words Rs.
Receipt Date
Chq/D.D. No. Chq/D.D. Dt :
Bank
Branch
Contact No.

Note :

- Water charges shall have to be paid in favour of "WATER SUPPLY JHAGADIA NOTIFIED AREA" at Bank of Baroda - GIDC Jhagadia, Branch bearing ACCOUNT NO. 5607020000107 RTGS IFSC CODE BARBOJHABHA. Water charges if not paid within stipulated date of payment, will attract the interest (12% per annum) and Penal interest (3% per annum).
- Use of water beyond GPCB Consent is an offence. If found, the water supply will be disconnected without further notice and the same will be intimated to GPCB. Revert if quantity considered is not true.
- The Effective Water Rate from 01/04/2023 is Rs. 52.60 Per KL + CSR Fund Rs. 1.10 = Rs. 53.70
- The Management of water supply scheme is awarded to M/s Sachin Water Supply Co. Pvt. Ltd. For any complaint contact their representative on his Cell No. +91-7600059722/23/24/25 & 7600059721 97277 31065_QR email: sachinwatersupply@gmail.com



No. SEIAA/GUJ/EC/5(f)/93/2019

Date: 19 JUN 2019

BY R.P.A.D.

Amendment to Environment Clearance Order No:- SEIAA/GUJ/EC/5(f)/81/2013 dated 22/04/2013.

(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 (Unit-I)** for expansion of Synthetic Organic Chemical manufacturing plant at Plot No. 758/1, 2 & 3, GIDC Estate, Jhagadia, Dist: Bharuch, vide this office letter no. **SEIAA/GUJ/EC/5(f)/81/2013 dated 22/04/2013**, 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)/81/2013 dated 22/04/2013**, 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/IND2/33695/2013 dated 01/04/2019. The project was scheduled for hearing in the SEAC meeting held on 24/04/2019.

The SEAC, Gujarat had recommended the project vide their letter dated 01/06/2019 to grant amendment in Environmental Clearance to the SEIAA, Gujarat based on the decision taken during SEAC meeting held on 24/04/2019. The proposal was considered by SEIAA, Gujarat in its meeting held on 03/06/2019 at Gandhinagar. After careful consideration, Environment Clearance order dated 22/04/2013 is hereby amended as under, subject to amendment with respect to changes in the planning of the project.

1. **Condition No. 3, 4, 5, 6, 7, 8, 9, 10, 11 & 12** of the environmental clearance order no. **SEIAA/GUJ/EC/5(f)/81/2013 dated 22/04/2013** have been amended and shall be read as under:

Condition No. 03 - There shall be no effluent discharge and unit shall strictly adhere to Zero Liquid Discharge status after proposed expansion. The unit shall get its underground drainage connection disconnected before commencing the expanded production.

Unit shall receive additional effluent of 400.4 KLD from sister concern unit i.e. Aarti Industries Ltd (Unit-II) located at the adjoining plot for treatment and treated wastewater of 370 KLD shall be sent back to them for reuse in their premises.

Condition No. 04 - Total 616.4 KLD [216 KLD – Aarti Industries Limited (Unit-I) + 400.4 KLD Aarti Industries Limited (Unit-II)] shall be treated in common/combined ETP.

Condition No. 05 - Unit shall install combined ETP of adequate capacity consisting primary, secondary and tertiary treatment facilities followed by RO, MEE & ATFD.

Condition No. 06 - Entire quantity of effluent (616.4 KLD) shall be treated in the Combined ETP consisting of primary, secondary and tertiary treatment facilities followed by RO, MEE & ATFD.



- Condition No. 07 -** Out of 580 KLD of RO Permeate & MEE condensate; 370 KLD shall be send back to the sister concern unit i.e. Aarti Industries Ltd (Unit-II) located at the adjoining plot for reuse and remaining 210 KLD shall be reused within plant premises.
- Condition No. 08 -** Out of 284.4 KLD of total process effluent (91 KLD from Unit-I + 193.4 KLD from Unit-II); 66 KLD of effluent shall be treated by Fenton Treatment followed by MEE - 1 & ATFD - 1 and 218.4 KLD of effluent shall be treated in ETP. Treated effluent from ETP (218.4 KLD) and MEE -1 condensate (60 KLD) shall be mixed and further treated in RO 1, 2, 3, 4.
- Condition No. 09 -** Remaining 332 KLD of effluent from utilities (125 KLD from Unit-I + 207 KLD from Unit-II) shall be treated by desilication process followed by RO - 5, 6.
- Condition No. 10 -** RO reject of RO-1, 2, 3, 4, 5, 6 shall be subjected to MEE - 2, 3, 4 followed by ATDF 2, 3, 4. Condensate of 123 KLD (MEE - 2, 3, 4) shall be mixed with RO permeate of 208 KLD (RO - 1, 2, 3, 4), RO permeate of 249 KLD (RO - 5, 6) for reuse. 210 KLD of treated water shall be reused in Unit-I and remaining 370 KLD shall be send to unit-II for reuse.
- Condition No. 11 -** The unit shall provide metering facility at the inlets and outlets of ETP, RO, MEE, ATFD, reuse, as well as inlet and outlet of effluent received from sister concern unit i.e. Aarti Industries Limited (Unit-II) located at the adjoining plot and maintain the records of the same.
- Condition No. 12 -** Proper Logbooks of ETP, RO plants, MEE & ATFD operations, chemical consumptions, quantity and quality reused within premises, power generations, as well as inlet and outlet of effluent received from sister concern unit i.e. Aarti Industries Limited (Unit-II) located at the adjoining plot, etc. shall be maintained and furnished to the GPCB from time to time.

2. The following additional Conditions shall be added in the environmental clearance order SEIAA/GUJ/EC/5(1)/81/2013 dated 22/04/2013 and shall be read as under:

- Unit shall install adequate capacity of combined STP for treatment of domestic waste water 43 KLD (5 KLD from Unit-I + 38 KLD from Unit-II). Treated sewage shall be utilized for gardening & plantation purpose within premises of Unit-I (13 KLD) and Unit-II (30 KLD).
- Unit shall provide buffer water storage tank of adequate capacity for storage of treated waste water during rainy days.
- Regular performance evaluation of the combined ETP shall be undertaken every year to check its adequacy, through a reputed institute/organization and its records shall be maintained.
- Additional Imported Coal to the tune of 0.2 MT/hr shall be used as fuel in the existing Boilers for steam requirement for proposed Multiple Effect Evaporators.
- Hazardous waste management shall be as under:

Sr. No.	Type of waste	Category	Quantity			HW Disposal Management Facility
			Existing	Proposed	Total	
1.	Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	I-33.1	225.00 MT/Year	00	225.000 MT/Year	Collection, Storage, Transportation and Disposal by send it to authorized decontamination facility / recycler or reuse or send back to supplier.

2.	Chemical sludge from waste water treatment	I-35.3	1200.00 MT/Year (ETP Waste)	2880 MT/Year	4080 MT/Year	Collection, Storage, Treatment, Transportation and Dispose at TSDf at BEIL.
			270 MT/Year (MEE Waste)	50 MT/Year	320 MT/Year	
3.	Used or Spent Oil	I-5.1	2.300 MT/Year	00	2.300 MT/Year	Collection, Storage, and Reuse in plant and machineries or sell to authorized registered recyclers.
4.	Any process or distillation residue	I-36.1	480.000 MT/Year	00	480.000 MT/Year	Collection, Storage, Transportation and Dispose at common incinerator of BEIL/SEPPL.
5.	Ash from incinerator and flue gas cleaning residue	I-37.2	12.480 MT/Year	00	12.480 MT/Year	Collection, Storage, Transportation and Dispose at TSDf at BEIL.
6.	Spent Carbon or filter medium	I-38.2	40.800 MT/Year	00	40.800 MT/Year	Collection, Storage, Transportation and Dispose at common incinerator of BEIL/SEPPL.
7.	Inorganic Acids (Spent Acids)	II-B15	86400.000 MT/Year	00	86400.000 MT/Year	Collection, Storage, Transportation, Disposed through end user who has valid permission under Rule-9 of Hazardous and Other Waste (M&TBM) Rules-2016.
8.	Spent Catalyst	I-28.2	7.440 MT/Year	00	7.440 MT/Year	Collection, Storage, Transportation and Disposal by selling to authorized recycler for regeneration.
9.	Fly Ash	Z-Z14	7560.000 MT/Year	00	7560.000 MT/Year	Collection, Storage, Transportation and Disposal by selling to Brick Manufacturer or Cement Industry.

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/5(1)/81/2013 dated 22/04/2013 shall remain unchanged.

With regards,
Yours sincerely,



S. M. SAIYAD
Member Secretary

Issued to:

M/s. Aarti Industries Limited (Unit-I)
C/o. Aarti Industries Limited (Organic Division)
Plot No. 801/23, GIDC Estate,
Phase- III, Vapi- 396195





**GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION
(A GOVT. OF GUJARAT UNDERTAKING)**

Office of the Dy. Executive Engineer
Plot No. 40, Road No. 8, Near Pepsico co.
GIDC Jhagadia
Phone : (02645) 226154 Fax : (02645) 226009

No: GIDC/DEE/JHG/ 254

Date: 19/6/12

CERTIFICATE

This is to certify that, The above Unit Visited on 31/05/2012. It is observed that M/s Aarti Industries Plot No. 758/1, 2, 3, GIDC Jhagadia has disconnected the Drainage Connection from 31/05/2012.

o/c

Om
Dy. Executive Engineer
GIDC Jhagadia

ghab
RAD

To,
M/s Aarti Industries
Plot No. 758/1, 2, 3,
GIDC Jhagadia.

Rec'd by
2/3 25/6/12



AARTI INDUSTRIES LIMITED

(A Government Recognised Export House)

Unit - I

Factory :

Plot No. 758/1, 2 & 3, P. B. No. 23,

G.I.D.C., Jhagadia - 393 110.

Dist. Bharuch, Gujarat, INDIA.

Ph. No. : 02645 - 226178, 226277

02645 : 226278, 226279

Mob. : 9537011711, 9537011811

Fax No. : 02645 - 226178

To

Date : 26/06/2012

Sr Environment Engineer

GPCB

Gandhinagar

Sub: Zero Discharge

ID : 14855

Respected Sir ,

We have installed Equipments for Zero Discharge & have not discharged any Treated Effluent to FETP (NCTL) since 16th April , 2012 . We have also got Disconnection Certificate from GIDC , Jhagadia. We are enclosing the copy of the same for your ready reference .

This is for your information please . We request you to please keep our consented quantity in Safe Custody for future .

Thanking You

For Aarti Industries Limited

(Authorised Signatory)

Encl: As above

Ph
27/6/2012

Gujarat Pollution Control Board

Sector- No. 10-A,

Gandhinagar-382010.

Regd. Office : Plot No. 801/23, G.I.D.C. Estate, Phase III, Vapi - 396 195.

Tel. : (0260) 2431366, 2400059, 2400158 Fax : (0260) 2401322

Admn. Office : Udyog Kshetra, 2nd Floor, Mulund, Goregaon Link Road, L.B.S. Marg, Mulund (West), Mumbai - 400 080.

Phone : (022) 25918195, 67976697, 67976666 Fax : (022) 25904806, 25653185, 67976687

PARIVESH Screenshot

environmentclearance.nic.in/state/Compliance_report.aspx?Cat_Id=SIA%2fGJ%2fTHE%2f10450%2f2008&type=2

Apps XGN OCEMS Govt. Website eGazette Cert. Courses AIL Patrak JH HW JH Extra CaCl2 COMMON Gold Jade Pearl All Bookmarks

PARIVESH परिवेश
State Environment Impact Assessment Authority
UserID: [ak.jain@aartigroup.com]
Logout

"Pro Active and Responsive facilitation by Interactive, Virtuous and Environmental Singlewindow Hub"

Form for Uploading Compliance Report

Proposal No : SIA/GJ/THE/10450/2008 Proposal Name : Aarti Industries Limited (Unit-I)
Category : Thermal Projects MeEF File No. : EIA-10-2008-236-E

Compliance Letter/Report

Year of Compliance: -All Years- Date of Compliance: Select

Remarks: Upload Compliance Letter/Report: Choose File No file chosen (.pdf only)

SUBMIT

Sno.	Proposal No.	Uploaded copy of Compliance report	Remarks	Uploaded Date	Delete
1	SIA/GJ/THE/10450/2008	03012020GWH68654Unit-1JhaECCCompliance(Apr-Sept-19)11.pdf		31/03/2020	X
2	SIA/GJ/THE/10450/2008	06012020WHAW383CUIECCComplianceReport.pdf	Compliance report (October 2019 to March 2020)	01/06/2020	X
3	SIA/GJ/THE/10450/2008	11302020RJDJRLKUnit-1_ECComplianceReport-April20toSept-20_Submitted.pdf	EC Compliance Report for the period April-20 to September-20	30/11/2020	X
4	SIA/GJ/THE/10450/2008	1129202244580817ECCcompliancereportApril22-Sept22(AartiIndustriesLimited_U-I).pdf	EC Compliance Report (April-2022 to September-2022)	29/11/2022	X
5	SIA/GJ/THE/10450/2008	0529202348469666AartiIndustriesLimited(U-I)ECCComplianceOct22toMar23.pdf	EC Compliance Report (October 2022 to March 2023)	29/05/2023	X
6	SIA/GJ/THE/10450/2008	1109202352659253AartiIndustriesLimited(Unit-I)ECCompliancereportApr23-Sep23.pdf	EC Compliance Report (April-2023 to September-2023)	09/11/2023	X

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**AARTI
INDUSTRIES
LIMITED**

ok.

Annexure:-1

23rd June 2023
AIL/JH/2023/ENV/066

XGN ID: 14855

To,
The Unit Head,
Environment Audit Cell,
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector – 10 A,
Gandhinagar-382010

Subject : Submission of Environment Audit Report for April'22 to March'23

Respected Sir,

In reference to the above mentioned subject, we are submitting herewith the Environment Audit Report for the period April'22 to March'23 in triplicate for Aarti Industries Limited (Unit-I) situated at Plot No: 758-1/2/3, GIDC Estate, Jhagadia. Audit has been carried out by Schedule-I Auditor i.e Shree Dhanvantary College of Engineering & Technology.

Unit is ISO 14001:2015 certified, hence, made the payment of Rs. 10000/- through NEFT as an audit fee through UTR No. XAXC1220579113 dated 22/06/2023. Payment receipt is enclosed herewith as Annexure-1.

We hope that the above is in order.

Thanking you,

Yours faithfully,
For, Aarti Industries Limited (Unit-I)

Authorized Signatory

Encl :

- Environment Audit Report-3 copies
- Environment audit fee payment receipt

27/06/23
Gujarat Pollution Control Board
Head Office
Sector No.-10-A,
Gandhinagar-382010

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. 758/1-2-3, GIDC, PB No.-23, Jhagadia-393 110, Dist-Bharuch. INDIA. T : 9537011711, 9537011811.

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

ANNEXURE - 38**ENVIRONMENTAL MANAGEMENT SYSTEM ADEQUACY CERTIFICATE**

The Environmental audit scheme was introduced by the Hon. Gujarat High Court vide its order dated 20-12-1996 and 13-03-1997 and modified vide order dated 16-09-1999. We are appointed by the GPCB, Gandhinagar as recognized auditor for compliance of the direction of the Hon. High Court in this matter and have carried out the environmental audit of:

a) M/S. AARTI INDUSTRIES LTD.

Plot No. 758/1-2-3, GIDC Estate Jhagadia, Taluka: Jhagadia,
Dist.- Bharuch- 393110, Gujarat, India

b) Manufacturing products & by products as under:

NAME OF PRODUCTS & CAPACITY WITH YIELD/PURITY PER DAY.						
B_1	Group Name	Product Name	Consented Quantity MTA	Actual Production MTA	Actual Production MT/Day	Yield/Purity per Day
1	Group- A	Mono nitro derivatives of Benzene & Chlorobenzene	72000	53273.575	145.96	NA
2	Group- B	Dinitro Derivatives of Benzene & MCB	36000	9548.959	26.16	NA
3	Group- C	Di Ethyl Sulphate	1200	0.00	0.00	NA
4	Group- D	Hydrogenated Products	12000	16966.586	46.48	NA
5	Group- E	Only Physical Separation of o/p/m Chloro Toluene	5400	0.00	0.00	NA
6	Group- F	Only Physical Separation of 2,3 DCNB, 3,4 DCNB	6600	2110.63	5.78	NA
7	Co-generation power plant (MWH)		4.5	3.81	3.81	NA

As per the directions of the Hon. High Court in environmental audit scheme and based on personal monitoring (Collection of samples, Analysis), We certify that the Environmental Management System provided by this industry for the products and capacity as stated above is partially adequate and efficacious to achieve the quality of effluents (Air + Waste water + Solid waste) as specified/ required consent / notification by GPCB, Gandhinagar for following quantity of effluent:

Sr. No.	Waste water	Contest Limit	Status
1.	Industrial Effluent	393.84 KL/Day	171.18 KL/Day
2.	Details of Air Emission Boiler Stack		Adequate

DETAILS OF HAZARDOUS/SOLID WASTE GENERATION

Sr. No.	Waste Description	Consented Quantity in MT	Applied for Consent Amendment	Generated Quantity in MT
1	Empty barrels/ containers/ liners contaminated with hazardous chemicals / wastes	225.00	225.00	154.00
2	Chemical Sludge from wastewater Treatment	2800.00	3500.00	3303.00
3	Used or Spent Oil	2.30	19.30	4.89
4	Any Process or Distillation Residue	480.00	2280.00	154.00
5	Ash from Incineration and flue gas cleaning residue	12.48	0.00	0.00
6	Spent carbon or filter medium	40.80	40.80	9.30
7	Inorganic Acids (Spent Acids)	86400.00	86400.00	49578.10
8	Spent Catalyst	7.44	12.44	3.28
9	Fly Ash	7560.00	12560.00	10993.00

Total Sludge Generation in MT	3303.00
Total Production in MT	81899.75
Sludge Generation Per Tone of product	0.040

This certificate is valid for audit period (**APRIL 2022 -MARCH 2023**) only. However, it is subjected to automatic cancellation in case of any change in product profile/capacity, quality & quantity of effluents (Air + Wastewater + Solid waste) and efficiency of EMS equipment.

NAME & ADDRESS OF THE AUDITOR:

**Environment Audit Lab
Shree Dhanvantary College of Engineering & Technology
Dhanvantary campus, Near Kim Railway station
Dist: surat -394110**

Urvashi
Mrs. Limbachiya Urvashi
(Chemical Engineer)

Kinjal
Mrs. Kinjal Patel
(Environmental Engineer)

Environmental Audit Lab

Date: 15/06/23
Place: SURAT

SIGNATURE OF THE AUTHORIZED PERSON

Dr. Vishnu Sutariya
Lab Head

VS
15/06/2023





TEST REPORT
STACK MONITORING

ULR - TC77532400003796F			
Test Report No.	URA/24/03/S-001	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/001	Service Request Date	11/03/2024
Sample ID No.	URA/ID/S-24/03/001	Field Data Sheet No.:	URA/FDS/S-24/03/001
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Date of Sampling	11/03/2024	Date of Testing	12/03/2024
Stack Sampling Attached to	DG Set 1 (1010 KVA)		
Air Pollution Control Device	--		
Fuel Used	HSD		

➤ **Details of Instrument Used for Monitoring**

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

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	12.5
7.	Exit Gas Flow	m ³ /h	2281.1

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm ³	68.5	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	5.2	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	40.8	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119699

Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

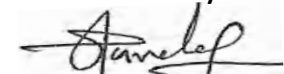
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



TEST REPORT
STACK MONITORING

ULR - TC77532400003797F			
Test Report No.	URA/24/03/S-002	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/002	Service Request Date	11/03/2024
Sample ID No.	URA/ID/S-24/03/002	Field Data Sheet No.:	URA/FDS/S-24/03/002
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Date of Sampling	11/03/2024	Date of Testing	12/03/2024
Stack Sampling Attached to	DG Set 2 (1010 KVA)		
Air Pollution Control Device	--		
Fuel Used	HSD		

➤ **Details of Instrument Used for Monitoring**

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

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	114
6.	Exit Gas Velocity	m/s	10.4
7.	Exit Gas Flow	m ³ /h	1897.9

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm ³	71.6	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	6.6	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	38.1	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119699

Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

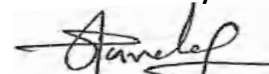
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



TEST REPORT
STACK MONITORING

ULR - TC775324000003798F			
Test Report No.	URA/24/03/S-003	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/003	Service Request Date	11/03/2024
Sample ID No.	URA/ID/S-24/03/003	Field Data Sheet No.:	URA/FDS/S-24/03/003
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Date of Sampling	11/03/2024	Date of Testing	12/03/2024
Stack Sampling Attached to	DG Set 3 (1010 KVA)		
Air Pollution Control Device	--		
Fuel Used	HSD		

➤ **Details of Instrument Used for Monitoring**

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

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	120
6.	Exit Gas Velocity	m/s	11.6
7.	Exit Gas Flow	m ³ /h	2116.9

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm ³	76.8	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	5.4	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	35.6	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119699

Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

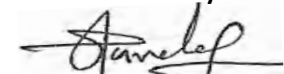
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



TEST REPORT
STACK MONITORING

ULR - TC77532400003799F			
Test Report No.	URA/24/03/S-004	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/004	Service Request Date	11/03/2024
Sample ID No.	URA/ID/S-24/03/004	Field Data Sheet No.:	URA/FDS/S-24/03/004
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Date of Sampling	11/03/2024	Date of Testing	12/03/2024
Stack Sampling Attached to	DG Set 4 (1010 KVA)		
Air Pollution Control Device	--		
Fuel Used	HSD		

➤ **Details of Instrument Used for Monitoring**

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

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	115
6.	Exit Gas Velocity	m/s	14.1
7.	Exit Gas Flow	m ³ /h	2573.1

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm ³	82.1	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	6.6	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	38.8	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119699

Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

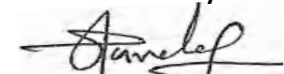
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532300004005F				
Test Report No.:	URA/23/04/AIL-J/A-001	Report Issue Date	06/05/2023	
Service Request form No.:	URA/SRF/04/001	Service Request Date	07/04/2023	
Sample ID No.:	URA/ID/A-23/04/001	Field Data Sheet No.	URA/FDS/A-23/04/001	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	07/04/2023	Date of Testing	08/04/2023	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Main Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 30 °C	Max.: 37 °C	Avg.: 35 °C
	Rel. Humidity:	Min.: 31 %	Max.: 48 %	Avg.: 38 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.77
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1697.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.8

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	89.2	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	33.1	60	UERL/AIR/ SOP/11
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.5	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	21.5	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	10.4	180	IS: 5182 (Part11)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	UERL/AIR/ SOP/05
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 22)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	3.3	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:

Mikunj D. Patel
(Chemist)

Authorized By:

Jai Vik 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 (2) (a).

1. Name of Department/Plant. *CN PLANT & SOLVENT TANK FARM*
2. Raw materials, by products and finished products involved in the process. *BENZENE*
3. Particulars of sampling.

Sr. No. क्र. सं. नं.	Location operation monitored स्थल	Identified contaminate पुष्पक-नी विषय	Sampling Instrument used युक्त साधन(नी)	Airborne Contamination		
				Number of Samples नमूना-नी नं.	Range रेंज	Average औसत
	2	3	4	5	6	7
1	CN-3 NB TANK AREA	BENZENE	VOL	01	0.2 PPM	
2	CN-1 FSB SEPARATOR	BENZENE	VOL	01	0.1 PPM	0.2 PPM
3	CN-1 R.B WASHER 2ND FLOOR	BENZENE	VOL	01	0.3 PPM	
4	BENZENE TANKER UNLOADING DRAIN	BENZENE	VOL	01	0.4 PPM	
5	BENZENE TRANSFER PUMP	BENZENE	VOL	01	0.2 PPM	0.3 PPM
6	BENZENE TANK VENT	BENZENE	VOL	01	0.3 PPM	

क्र. नं. 37
रु. 12-बी मु. 37

प्रदूषण नीवारण अंगेनुं रजिस्टर

TWA concentrations (As given in Second Schedule)	Reference method रेफरेंस	Number of workers exposed at the location being monitored कामगार-नी संख्या	Remarks टिप्पणी	Signature person taking sample नमूना लेई जणार व्यक्ति-नी सही	Name (In Block Letters) नाम
8	9	10	11	12	13
0.5 PPM	DIGITAL PID SENSOR	01	WITH IN RANGE	<i>[Signature]</i>	PTVUSH
0.5 PPM	DIGITAL PID SENSOR	01	WITH IN RANGE	<i>[Signature]</i>	PTVUSH
0.5 PPM	DIGITAL PID SENSOR	02	WITH IN RANGE	<i>[Signature]</i>	PTVUSH
0.5 PPM	DIGITAL PID SENSOR	0	WITH IN RANGE	<i>[Signature]</i>	PTVUSH
0.5 PPM	DIGITAL PID SENSOR	01	WITH IN RANGE	<i>[Signature]</i>	PTVUSH
0.5 PPM	DIGITAL PID SENSOR	0	WITH IN RANGE	<i>[Signature]</i>	PTVUSH

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

Register Containing Particulars of monitoring of working environment required under Section 7-A (2) (c).
1. Name of the Department/Plant SOLVENT TANK FARM
2. Raw materials, by products and finished products involved in the process.

3. Particulars of sampling METHANOL

Sr. No. क्र. सं. नं.	Location operation monitored स्थान	Identified contaminant प्रदूषक विल	Sampling instrument used यंत्र	Airborne Contamination		
				Number of Samples नमूने नं.	Range रेंज	Average औसत
2	3	4	5	6	7	
1	METHANOL TANKER UNLOADING POINT	METHANOL	VOL	01	12.1 PPM	15 PPM
2	METHANOL TRANSFER PUMP	METHANOL	VOL	01	18.3 PPM	
3	METHANOL TANK VENT	METHANOL	VOL	01	14.6 PPM	
1	METHANOL TANKER UNLOADING POINT	METHANOL	VOL	01	18.2 PPM	14.4 PPM
2	METHANOL TRANSFER PUMP	METHANOL	VOL	01	18.3 PPM	
3	METHANOL TANK VENT	METHANOL	VOL	01	20.4 PPM	

दि. 30 नं. 12-बी मुद्रा

प्रदूषण निवारण अंशेनुं 2022

TWA concentrations (As given in Second Schedule)	Reference method उपकरण	Number of workers exposed at the location being monitored संरक्षित स्थान	Remarks टिप्पणी	Signature person taking samples नमूने घेतणे वाचक विल	Name (in block letters)
8	9	10	11	12	13
200 PPM	DIGITAL PPD SENSOR	01	WITH IN RANGE		P. VUSHA
200 PPM	DIGITAL PPD SENSOR	02	WITH IN RANGE		P. VUSHA
200 PPM	DIGITAL PPD SENSOR	0	WITH IN RANGE		P. VUSHA
200 PPM	DIGITAL PPD SENSOR	01	WITH IN RANGE		ASHLEY
200 PPM	DIGITAL PPD SENSOR	01	WITH IN RANGE		ASHLEY
200 PPM	DIGITAL PPD SENSOR	01	WITH IN RANGE		ASHLEY

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

Register Containing Particulars of monitoring of working environment required under Section 7-A (2) (e).

1. Name of Department/Plant. SOLVENT TANK FARM
2. Raw materials, by products and finished products involved in the process.
3. Particulars of sampling. TOLUENE

Sr. No. अनु नं०	Location operation monitored स्थल	Identified contaminate प्रदूषक-की विधि	Sampling Instrument used युक्त साधन	Airborne Contamination			
				Number of Samples नमूनों नं०	Range रेण	Average औसत	
1	2	3	4	5	6	7	
1	TOLUENE TANKER UNLOADING POINT	TOLUENE	VOC	01	0.5 PPM	}	
2	TOLUENE TRANSFER PUMP	TOLUENE	VOC	01	0.4 PPM		0.5 PPM
3	TOLUENE TANK VENT	TOLUENE	VOC	01	0.7 PPM		
4	TOLUENE TANKER UNLOADING POINT	TOLUENE	VOC	01	0.9 PPM		
5	TOLUENE TRANSFER PUMP	TOLUENE	VOC	01	0.5 PPM	0.7 PPM	
6	TOLUENE TANK VENT	TOLUENE	VOC	01	0.8 PPM		

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प्रदूषक निवारण अंगेजुं रजिस्टर

TWA concentrations (As given in Second Schedule)	Reference method रेकरन्स	Number of workers exposed at the location being monitored कामदार-की संख्या	Remarks विशेष नोट	Signature person taking sample नमूना लई जन्तर व्यक्ति-की सही	Name (In Block Letters) नाम
8	9	10	11	12	13
100 PPM	DIGITAL PID SENSOR	01	WITH IN RANGE	<i>[Signature]</i>	PIYUSH
100 PPM	DIGITAL PID SENSOR	01	WITH IN RANGE	<i>[Signature]</i>	PIYUSH
100 PPM	DIGITAL PID SENSOR	01	WITH IN RANGE	<i>[Signature]</i>	PIYUSH
100 PPM	DIGITAL PID SENSOR	01	WITH IN RANGE	<i>[Signature]</i>	ASHISH
100 PPM	DIGITAL PID SENSOR	01	WITH IN RANGE	<i>[Signature]</i>	ASHISH
100 PPM	DIGITAL PID SENSOR	01	WITH IN RANGE	<i>[Signature]</i>	ASHISH



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003742F				
Test Report No.:	URA/24/03/AIL-J/A-001	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/001	Service Request Date	01/03/2024	
Sample ID No.:	URA/ID/A-24/03/001	Field Data Sheet No.	URA/FDS/A-24/03/001	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	01/03/2024	Date of Testing	02/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Main Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 24 °C	Max.: 37 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 31 %	Max.: 84 %	Avg.: 59 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.50
2.	Flow Rate of PM ₁₀	m ³ /min	1.15
3.	Volume of Air Sampled for PM ₁₀	m ³	1690.5
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	82.8	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	35.1	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.9	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	23.1	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	5.9	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	2.4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-001	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/001	Service Request Date	01/03/2024
Sample ID No.:	URA/ID/A-24/03/001	Field Data Sheet No.	URA/FDS/A-24/03/001
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	01/03/2024	Date of Testing	02/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Main Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 24 °C	Max.: 37 °C
	Rel. Humidity:	Min.: 31 %	Max.: 84 %
		Avg.: 29 °C	Avg.: 59 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.50
2.	Flow Rate of PM ₁₀	m ³ /min	1.15
3.	Volume of Air Sampled for PM ₁₀	m ³	1690.5
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003743F				
Test Report No.:	URA/24/03/AIL-J/A-002	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/002	Service Request Date	01/03/2024	
Sample ID No.:	URA/ID/A-24/03/002	Field Data Sheet No.	URA/FDS/A-24/03/002	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	01/03/2024	Date of Testing	02/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Emergency Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 24 °C	Max.: 37 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 31 %	Max.: 84 %	Avg.: 59 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.20
2.	Flow Rate of PM ₁₀	m ³ /min	1.16
3.	Volume of Air Sampled for PM ₁₀	m ³	1684.3
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

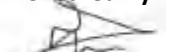
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	88.2	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	38.4	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	19.2	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	23	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	7.3	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	4.1	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jajvik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-002	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/002	Service Request Date	01/03/2024
Sample ID No.:	URA/ID/A-24/03/002	Field Data Sheet No.	URA/FDS/A-24/03/002
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	01/03/2024	Date of Testing	02/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Emergency Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 24 °C	Max.: 37 °C
	Rel. Humidity:	Min.: 31 %	Max.: 84 %
		Avg.:	29 °C
		Avg.:	59 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.20
2.	Flow Rate of PM ₁₀	m ³ /min	1.16
3.	Volume of Air Sampled for PM ₁₀	m ³	1684.3
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003744F				
Test Report No.:	URA/24/03/AIL-J/A-003	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/003	Service Request Date	01/03/2024	
Sample ID No.:	URA/ID/A-24/03/003	Field Data Sheet No.	URA/FDS/A-24/03/003	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	01/03/2024	Date of Testing	02/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	ETP Expansion Area			
Environmental Conditions during Sampling :	Temp.:	Min.: 24 °C	Max.: 37 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 31 %	Max.: 84 %	Avg.: 59 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.52
2.	Flow Rate of PM ₁₀	m ³ /min	1.16
3.	Volume of Air Sampled for PM ₁₀	m ³	1706.6
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.6

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	87.8	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	34.1	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.4	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	22.7	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	8.8	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jajvik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-003	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/003	Service Request Date	01/03/2024
Sample ID No.:	URA/ID/A-24/03/003	Field Data Sheet No.	URA/FDS/A-24/03/003
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	01/03/2024	Date of Testing	02/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	ETP Expansion Area		
Environmental Conditions during Sampling :	Temp.:	Min.: 24 °C	Max.: 37 °C
	Rel. Humidity:	Min.: 31 %	Max.: 84 %
		Avg.:	29 °C
		Avg.:	59 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.52
2.	Flow Rate of PM ₁₀	m ³ /min	1.16
3.	Volume of Air Sampled for PM ₁₀	m ³	1706.6
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.6

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	26.3	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003748F				
Test Report No.:	URA/24/03/AIL-J/A-007	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/007	Service Request Date	04/03/2024	
Sample ID No.:	URA/ID/A-24/03/007	Field Data Sheet No.	URA/FDS/A-24/03/007	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3,0020 GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	04/03/2024	Date of Testing	05/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Main Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 19 °C	Max.: 31 °C	Avg.: 24 °C
	Rel. Humidity:	Min.: 29 %	Max.: 79 %	Avg.: 52 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.25
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1731.5
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.3

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	91.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	46.1	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	24	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	26.6	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	12.9	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	3.3	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

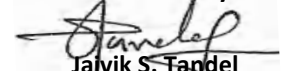
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jajvik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-007	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/007	Service Request Date	04/03/2024
Sample ID No.:	URA/ID/A-24/03/007	Field Data Sheet No.	URA/FDS/A-24/03/007
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	04/03/2024	Date of Testing	05/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Main Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 19 °C	Max.: 31 °C
	Rel. Humidity:	Min.: 29 %	Max.: 79 %
		Avg.: 24 °C	Avg.: 52 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.25
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1731.5
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.3

➤ Environmental Conditions during testing : Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ Test Parameter Results


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	26.5	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jajvik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003749F				
Test Report No.:	URA/24/03/AIL-J/A-008	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/008	Service Request Date	04/03/2024	
Sample ID No.:	URA/ID/A-24/03/008	Field Data Sheet No.	URA/FDS/A-24/03/008	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	04/03/2024	Date of Testing	05/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Emergency Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 19 °C	Max.: 31 °C	Avg.: 24 °C
	Rel. Humidity:	Min.: 29 %	Max.: 79 %	Avg.: 52 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.11
2.	Flow Rate of PM ₁₀	m ³ /min	1.18
3.	Volume of Air Sampled for PM ₁₀	m ³	1707.0
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	77.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	28.5	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	23.2	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	26.3	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	7.6	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-008	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/008	Service Request Date	04/03/2024
Sample ID No.:	URA/ID/A-24/03/008	Field Data Sheet No.	URA/FDS/A-24/03/008
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	04/03/2024	Date of Testing	05/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Emergency Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 19 °C	Max.: 31 °C
	Rel. Humidity:	Min.: 29 %	Max.: 79 %
		Avg.: 24 °C	Avg.: 52 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.11
2.	Flow Rate of PM ₁₀	m ³ /min	1.18
3.	Volume of Air Sampled for PM ₁₀	m ³	1707.0
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003750F				
Test Report No.:	URA/24/03/AIL-J/A-009	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/009	Service Request Date	04/03/2024	
Sample ID No.:	URA/ID/A-24/03/009	Field Data Sheet No.	URA/FDS/A-24/03/009	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	04/03/2024	Date of Testing	05/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	ETP Expansion Area			
Environmental Conditions during Sampling :	Temp.:	Min.: 19 °C	Max.: 31 °C	Avg.: 24 °C
	Rel. Humidity:	Min.: 29 %	Max.: 79 %	Avg.: 52 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.56
2.	Flow Rate of PM ₁₀	m ³ /min	1.13
3.	Volume of Air Sampled for PM ₁₀	m ³	1665.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.6

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	72.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	28.5	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	21.3	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	24.4	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:

Nikunj D. Patel
(Chemist)

Authorized By:

Javik S. Tandel
(Manager - Operations)

**TEST REPORT
(AMBIENT AIR MONITORING)**

Test Report No.:	URA/24/03/AIL-J/A-009	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/009	Service Request Date	04/03/2024
Sample ID No.:	URA/ID/A-24/03/009	Field Data Sheet No.	URA/FDS/A-24/03/009
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	04/03/2024	Date of Testing	05/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	ETP Expansion Area		
Environmental Conditions during Sampling :	Temp.:	Min.: 19 °C	Max.: 31 °C
	Rel. Humidity:	Min.: 29 %	Max.: 79 %
		Avg.: 24 °C	Avg.: 52 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.56
2.	Flow Rate of PM ₁₀	m ³ /min	1.13
3.	Volume of Air Sampled for PM ₁₀	m ³	1665.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.6

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003754F				
Test Report No.:	URA/24/03/AIL-J/A-013	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/013	Service Request Date	07/03/2024	
Sample ID No.:	URA/ID/A-24/03/013	Field Data Sheet No.	URA/FDS/A-24/03/013	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	07/03/2024	Date of Testing	08/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Main Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 20 °C	Max.: 34 °C	Avg.: 27 °C
	Rel. Humidity:	Min.: 27 %	Max.: 74 %	Avg.: 49 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.54
2.	Flow Rate of PM ₁₀	m ³ /min	1.17
3.	Volume of Air Sampled for PM ₁₀	m ³	1722.7
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.6

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	87.5	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	32.9	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	19.4	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	21.7	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	8.8	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jajvik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-013	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/013	Service Request Date	07/03/2024
Sample ID No.:	URA/ID/A-24/03/013	Field Data Sheet No.	URA/FDS/A-24/03/013
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	07/03/2024	Date of Testing	08/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Main Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 20 °C	Max.: 34 °C
	Rel. Humidity:	Min.: 27 %	Max.: 74 %
		Avg.: 27 °C	Avg.: 49 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.54
2.	Flow Rate of PM ₁₀	m ³ /min	1.17
3.	Volume of Air Sampled for PM ₁₀	m ³	1722.7
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.6

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	17.5	--	UERL/AIR/SOP/07

Remarks:

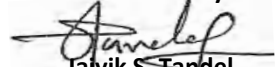
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jajvik S. Fandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400003755F				
Test Report No.:	URA/24/03/AIL-J/A-014	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/014	Service Request Date	07/03/2024	
Sample ID No.:	URA/ID/A-24/03/014	Field Data Sheet No.	URA/FDS/A-24/03/014	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	07/03/2024	Date of Testing	08/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Emergency Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 20 °C	Max.: 34 °C	Avg.: 27 °C
	Rel. Humidity:	Min.: 27 %	Max.: 74 %	Avg.: 49 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.12
2.	Flow Rate of PM ₁₀	m ³ /min	1.13
3.	Volume of Air Sampled for PM ₁₀	m ³	1635.3
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

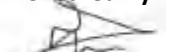
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	88.9	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	37.6	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.7	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	22.6	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-014	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/014	Service Request Date	07/03/2024
Sample ID No.:	URA/ID/A-24/03/014	Field Data Sheet No.	URA/FDS/A-24/03/014
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	07/03/2024	Date of Testing	08/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Emergency Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 20 °C	Max.: 34 °C
	Rel. Humidity:	Min.: 27 %	Max.: 74 %
		Avg.:	27 °C
		Avg.:	49 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.12
2.	Flow Rate of PM ₁₀	m ³ /min	1.13
3.	Volume of Air Sampled for PM ₁₀	m ³	1635.3
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	17.8	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003756F				
Test Report No.:	URA/24/03/AIL-J/A-015	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/015	Service Request Date	07/03/2024	
Sample ID No.:	URA/ID/A-24/03/015	Field Data Sheet No.	URA/FDS/A-24/03/015	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	07/03/2024	Date of Testing	08/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	ETP Expansion Area			
Environmental Conditions during Sampling :	Temp.:	Min.: 20 °C	Max.: 34 °C	Avg.: 27 °C
	Rel. Humidity:	Min.: 27 %	Max.: 74 %	Avg.: 49 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.31
2.	Flow Rate of PM ₁₀	m ³ /min	1.14
3.	Volume of Air Sampled for PM ₁₀	m ³	1662.8
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.4

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	81.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	38.9	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.5	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	21.9	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	6.3	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	2.4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:

Nikunj D. Patel
(Chemist)

Authorized By:

Jajvik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-015	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/015	Service Request Date	07/03/2024
Sample ID No.:	URA/ID/A-24/03/015	Field Data Sheet No.	URA/FDS/A-24/03/015
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	07/03/2024	Date of Testing	08/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	ETP Expansion Area		
Environmental Conditions during Sampling :	Temp.:	Min.: 20 °C	Max.: 34 °C
	Rel. Humidity:	Min.: 27 %	Max.: 74 %
		Avg.:	27 °C
		Avg.:	49 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.31
2.	Flow Rate of PM ₁₀	m ³ /min	1.14
3.	Volume of Air Sampled for PM ₁₀	m ³	1662.8
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.4

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003760F				
Test Report No.:	URA/24/03/AIL-J/A-019	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/019	Service Request Date	11/03/2024	
Sample ID No.:	URA/ID/A-24/03/019	Field Data Sheet No.	URA/FDS/A-24/03/019	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadi0061 Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	11/03/2024	Date of Testing	12/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Main Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 37 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 27 %	Max.: 79 %	Avg.: 48 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.18
2.	Flow Rate of PM ₁₀	m ³ /min	1.06
3.	Volume of Air Sampled for PM ₁₀	m ³	1537.8
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	82.8	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	36.4	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	21.6	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	24.4	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	7.2	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	4.9	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-019	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/019	Service Request Date	11/03/2024
Sample ID No.:	URA/ID/A-24/03/019	Field Data Sheet No.	URA/FDS/A-24/03/019
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	11/03/2024	Date of Testing	12/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Main Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 37 °C
	Rel. Humidity:	Min.: 27 %	Max.: 79 %
		Avg.:	29 °C
		Avg.:	48 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.18
2.	Flow Rate of PM ₁₀	m ³ /min	1.06
3.	Volume of Air Sampled for PM ₁₀	m ³	1537.8
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	26.6	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400003761F				
Test Report No.:	URA/24/03/AIL-J/A-020	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/020	Service Request Date	11/03/2024	
Sample ID No.:	URA/ID/A-24/03/020	Field Data Sheet No.	URA/FDS/A-24/03/020	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	11/03/2024	Date of Testing	12/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Emergency Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 37 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 27 %	Max.: 79 %	Avg.: 48 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.06
2.	Flow Rate of PM ₁₀	m ³ /min	1.08
3.	Volume of Air Sampled for PM ₁₀	m ³	1559.1
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.1

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

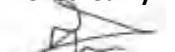
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	92.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	44.4	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	20.2	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	25.4	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	15.4	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	3.3	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

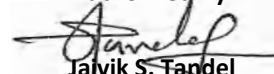
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jajvik S. Tandel
(Manager - Operations)

TEST REPORT
(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-020	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/020	Service Request Date	11/03/2024
Sample ID No.:	URA/ID/A-24/03/020	Field Data Sheet No.	URA/FDS/A-24/03/020
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	11/03/2024	Date of Testing	12/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Emergency Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 37 °C
	Rel. Humidity:	Min.: 27 %	Max.: 79 %
		Avg.:	29 °C
		Avg.:	48 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.06
2.	Flow Rate of PM ₁₀	m ³ /min	1.08
3.	Volume of Air Sampled for PM ₁₀	m ³	1559.1
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.1

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	26.7	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003762F				
Test Report No.:	URA/24/03/AIL-J/A-021	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/021	Service Request Date	11/03/2024	
Sample ID No.:	URA/ID/A-24/03/021	Field Data Sheet No.	URA/FDS/A-24/03/021	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	11/03/2024	Date of Testing	12/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	ETP Expansion Area			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 37 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 27 %	Max.: 79 %	Avg.: 48 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.14
2.	Flow Rate of PM ₁₀	m ³ /min	1.10
3.	Volume of Air Sampled for PM ₁₀	m ³	1593.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	82.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	32.6	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	20.6	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	24.4	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	6.5	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jajvik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-021	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/021	Service Request Date	11/03/2024
Sample ID No.:	URA/ID/A-24/03/021	Field Data Sheet No.	URA/FDS/A-24/03/021
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	11/03/2024	Date of Testing	12/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	ETP Expansion Area		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 37 °C
	Rel. Humidity:	Min.: 27 %	Max.: 79 %
		Avg.:	29 °C
		Avg.:	48 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.14
2.	Flow Rate of PM ₁₀	m ³ /min	1.10
3.	Volume of Air Sampled for PM ₁₀	m ³	1593.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	26.6	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003766F				
Test Report No.:	URA/24/03/AIL-J/A-025	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/025	Service Request Date	15/03/2024	
Sample ID No.:	URA/ID/A-24/03/025	Field Data Sheet No.	URA/FDS/A-24/03/025	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	15/03/2024	Date of Testing	16/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Main Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 21 °C	Max.: 35 °C	Avg.: 28 °C
	Rel. Humidity:	Min.: 33 %	Max.: 85 %	Avg.: 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.03
2.	Flow Rate of PM ₁₀	m ³ /min	1.09
3.	Volume of Air Sampled for PM ₁₀	m ³	1571.6
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.1

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	78.2	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	32.0	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.8	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	21.7	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	6.8	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	9.8	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	4.1	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jajvik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-025	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/025	Service Request Date	15/03/2024
Sample ID No.:	URA/ID/A-24/03/025	Field Data Sheet No.	URA/FDS/A-24/03/025
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	15/03/2024	Date of Testing	16/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Main Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 21 °C	Max.: 35 °C
	Rel. Humidity:	Min.: 33 %	Max.: 85 %
		Avg.:	28 °C
		Avg.:	60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.03
2.	Flow Rate of PM ₁₀	m ³ /min	1.09
3.	Volume of Air Sampled for PM ₁₀	m ³	1571.6
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.1

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	17.9	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003767F				
Test Report No.:	URA/24/03/AIL-J/A-026	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/026	Service Request Date	15/03/2024	
Sample ID No.:	URA/ID/A-24/03/026	Field Data Sheet No.	URA/FDS/A-24/03/026	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	15/03/2024	Date of Testing	16/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Emergency Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 21 °C	Max.: 35 °C	Avg.: 28 °C
	Rel. Humidity:	Min.: 33 %	Max.: 85 %	Avg.: 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.48
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1747.9
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	71.2	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	38.4	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	20.3	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	6.3	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	8.8	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:

Nikunj D. Patel
(Chemist)

Authorized By:

Jajvik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-026	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/026	Service Request Date	15/03/2024
Sample ID No.:	URA/ID/A-24/03/026	Field Data Sheet No.	URA/FDS/A-24/03/026
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	15/03/2024	Date of Testing	16/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Emergency Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 21 °C	Max.: 35 °C
	Rel. Humidity:	Min.: 33 %	Max.: 85 %
		Avg.: 28 °C	Avg.: 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.48
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1747.9
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	17.5	--	UERL/AIR/SOP/07

Remarks:

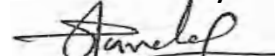
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003768F				
Test Report No.:	URA/24/03/AIL-J/A-027	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/027	Service Request Date	15/03/2024	
Sample ID No.:	URA/ID/A-24/03/027	Field Data Sheet No.	URA/FDS/A-24/03/027	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	15/03/2024	Date of Testing	16/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	ETP Expansion Area			
Environmental Conditions during Sampling :	Temp.:	Min.: 21 °C	Max.: 35 °C	Avg.: 28 °C
	Rel. Humidity:	Min.: 33 %	Max.: 85 %	Avg.: 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.95
2.	Flow Rate of PM ₁₀	m ³ /min	1.09
3.	Volume of Air Sampled for PM ₁₀	m ³	1566.3
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.0

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

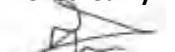
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	91.1	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	40.0	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	19.4	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	23.7	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	9	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

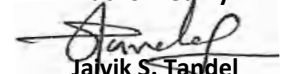
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-027	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/027	Service Request Date	15/03/2024
Sample ID No.:	URA/ID/A-24/03/027	Field Data Sheet No.	URA/FDS/A-24/03/027
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	15/03/2024	Date of Testing	16/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	ETP Expansion Area		
Environmental Conditions during Sampling :	Temp.:	Min.: 21 °C	Max.: 35 °C
	Rel. Humidity:	Min.: 33 %	Max.: 85 %
		Avg.: 28 °C	Avg.: 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.95
2.	Flow Rate of PM ₁₀	m ³ /min	1.09
3.	Volume of Air Sampled for PM ₁₀	m ³	1566.3
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.0

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	17.9	--	UERL/AIR/SOP/07

Remarks:

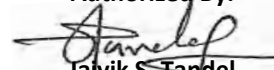
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003772F				
Test Report No.:	URA/24/03/AIL-J/A-031	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/031	Service Request Date	19/03/2024	
Sample ID No.:	URA/ID/A-24/03/031	Field Data Sheet No.	URA/FDS/A-24/03/031	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	19/03/2024	Date of Testing	20/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Main Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 38 °C	Avg.: 30 °C
	Rel. Humidity:	Min.: 28 %	Max.: 86 %	Avg.: 54 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.51
2.	Flow Rate of PM ₁₀	m ³ /min	1.10
3.	Volume of Air Sampled for PM ₁₀	m ³	1617.7
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.6

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

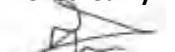
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	91.4	-	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	42.7	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	23.8	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	25	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	7.2	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

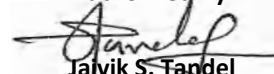
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jajvik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-031	Report Issue Date	03/04/2024		
Service Request form No.:	URA/SRF/03/031	Service Request Date	19/03/2024		
Sample ID No.:	URA/ID/A-24/03/031	Field Data Sheet No.	URA/FDS/A-24/03/031		
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.				
Dates of Sampling :	19/03/2024	Date of Testing	20/03/2024		
Sampling Procedure:	As per CPCB Guidelines				
Location of Sampling / Monitoring:	Near Main Gate				
Environmental Conditions during Sampling :	Temp.:	Min.:	22 °C	Max.:	38 °C
	Rel. Humidity:	Min.:	28 %	Max.:	86 %
		Avg.:	30 °C	Avg.:	54 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.51
2.	Flow Rate of PM ₁₀	m ³ /min	1.10
3.	Volume of Air Sampled for PM ₁₀	m ³	1617.7
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.6

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003773F				
Test Report No.:	URA/24/03/AIL-J/A-032	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/032	Service Request Date	19/03/2024	
Sample ID No.:	URA/ID/A-24/03/032	Field Data Sheet No.	URA/FDS/A-24/03/032	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	19/03/2024	Date of Testing	20/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Emergency Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 38 °C	Avg.: 30 °C
	Rel. Humidity:	Min.: 28 %	Max.: 86 %	Avg.: 54 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.91
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1707.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.0

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	76.9	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	35.0	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	20.4	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	22.7	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	12.4	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	2.5	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-032	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/032	Service Request Date	19/03/2024
Sample ID No.:	URA/ID/A-24/03/032	Field Data Sheet No.	URA/FDS/A-24/03/032
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	19/03/2024	Date of Testing	20/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Emergency Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 38 °C
	Rel. Humidity:	Min.: 28 %	Max.: 86 %
		Avg.:	30 °C
		Avg.:	54 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.91
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1707.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.0

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003774F				
Test Report No.:	URA/24/03/AIL-J/A-033	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/033	Service Request Date	19/03/2024	
Sample ID No.:	URA/ID/A-24/03/033	Field Data Sheet No.	URA/FDS/A-24/03/033	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	19/03/2024	Date of Testing	20/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	ETP Expansion Area			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 38 °C	Avg.: 30 °C
	Rel. Humidity:	Min.: 28 %	Max.: 86 %	Avg.: 54 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.93
2.	Flow Rate of PM ₁₀	m ³ /min	1.12
3.	Volume of Air Sampled for PM ₁₀	m ³	1608.1
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.0

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	69.2	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	26.3	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16.9	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	19.9	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	5.2	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	4.1	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-033	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/033	Service Request Date	19/03/2024
Sample ID No.:	URA/ID/A-24/03/033	Field Data Sheet No.	URA/FDS/A-24/03/033
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	19/03/2024	Date of Testing	20/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	ETP Expansion Area		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 38 °C
	Rel. Humidity:	Min.: 28 %	Max.: 86 %
		Avg.:	30 °C
		Avg.:	54 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.93
2.	Flow Rate of PM ₁₀	m ³ /min	1.12
3.	Volume of Air Sampled for PM ₁₀	m ³	1608.1
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.0

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	26.9	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003778F				
Test Report No.:	URA/24/03/AIL-J/A-037	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/037	Service Request Date	21/03/2024	
Sample ID No.:	URA/ID/A-24/03/037	Field Data Sheet No.	URA/FDS/A-24/03/037	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	21/03/2024	Date of Testing	22/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Main Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 41 °C	Avg.: 31 °C
	Rel. Humidity:	Min.: 23 %	Max.: 64 %	Avg.: 43 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.57
2.	Flow Rate of PM ₁₀	m ³ /min	1.11
3.	Volume of Air Sampled for PM ₁₀	m ³	1636.4
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.6

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	78.9	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	38.2	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	19.3	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	21.7	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	10.3	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:

Nikunj D. Patel
(Chemist)

Authorized By:

Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-037	Report Issue Date	03/04/2024		
Service Request form No.:	URA/SRF/03/037	Service Request Date	21/03/2024		
Sample ID No.:	URA/ID/A-24/03/037	Field Data Sheet No.	URA/FDS/A-24/03/037		
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.				
Dates of Sampling :	21/03/2024	Date of Testing	22/03/2024		
Sampling Procedure:	As per CPCB Guidelines				
Location of Sampling / Monitoring:	Near Main Gate				
Environmental Conditions during Sampling :	Temp.:	Min.:	23 °C	Max.:	41 °C
	Rel. Humidity:	Min.:	23 %	Max.:	64 %
		Avg.:	31 °C		
		Avg.:	43 %		

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.57
2.	Flow Rate of PM ₁₀	m ³ /min	1.11
3.	Volume of Air Sampled for PM ₁₀	m ³	1636.4
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.6

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	8.7	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003779F				
Test Report No.:	URA/24/03/AIL-J/A-038	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/038	Service Request Date	21/03/2024	
Sample ID No.:	URA/ID/A-24/03/038	Field Data Sheet No.	URA/FDS/A-24/03/038	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	21/03/2024	Date of Testing	22/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Emergency Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 41 °C	Avg.: 31 °C
	Rel. Humidity:	Min.: 23 %	Max.: 64 %	Avg.: 43 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.31
2.	Flow Rate of PM ₁₀	m ³ /min	1.16
3.	Volume of Air Sampled for PM ₁₀	m ³	1692.0
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.4

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

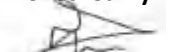
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	78.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	28.7	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.6	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	24.2	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

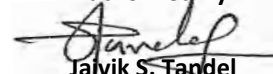
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-038	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/038	Service Request Date	21/03/2024
Sample ID No.:	URA/ID/A-24/03/038	Field Data Sheet No.	URA/FDS/A-24/03/038
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	21/03/2024	Date of Testing	22/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Emergency Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 41 °C
	Rel. Humidity:	Min.: 23 %	Max.: 64 %
		Avg.: 31 °C	Avg.: 43 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.31
2.	Flow Rate of PM ₁₀	m ³ /min	1.16
3.	Volume of Air Sampled for PM ₁₀	m ³	1692.0
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.4

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	26.4	--	UERL/AIR/SOP/07

Remarks:

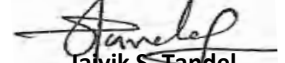
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003780F				
Test Report No.:	URA/24/03/AIL-J/A-039	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/039	Service Request Date	21/03/2024	
Sample ID No.:	URA/ID/A-24/03/039	Field Data Sheet No.	URA/FDS/A-24/03/039	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	21/03/2024	Date of Testing	22/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	ETP Expansion Area			
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 41 °C	Avg.: 31 °C
	Rel. Humidity:	Min.: 23 %	Max.: 64 %	Avg.: 43 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.30
2.	Flow Rate of PM ₁₀	m ³ /min	1.08
3.	Volume of Air Sampled for PM ₁₀	m ³	1574.6
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.3

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	84.8	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	32.5	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	22.4	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	25.1	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	9.5	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	4.1	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:

Nikunj D. Patel
(Chemist)

Authorized By:

Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-039	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/039	Service Request Date	21/03/2024
Sample ID No.:	URA/ID/A-24/03/039	Field Data Sheet No.	URA/FDS/A-24/03/039
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	21/03/2024	Date of Testing	22/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	ETP Expansion Area		
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 41 °C
	Rel. Humidity:	Min.: 23 %	Max.: 64 %
		Avg.:	31 °C
		Avg.:	43 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.30
2.	Flow Rate of PM ₁₀	m ³ /min	1.08
3.	Volume of Air Sampled for PM ₁₀	m ³	1574.6
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.3

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003784F				
Test Report No.:	URA/24/03/AIL-J/A-043	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/043	Service Request Date	26/03/2024	
Sample ID No.:	URA/ID/A-24/03/043	Field Data Sheet No.	URA/FDS/A-24/03/043	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	26/03/2024	Date of Testing	27/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Main Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 39 °C	Avg.: 30 °C
	Rel. Humidity:	Min.: 38 %	Max.: 89 %	Avg.: 63 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.31
2.	Flow Rate of PM ₁₀	m ³ /min	1.07
3.	Volume of Air Sampled for PM ₁₀	m ³	1560.7
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.4

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	71.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	29.9	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.6	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	20.5	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	8.1	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	2.4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:

Nikunj D. Patel
(Chemist)

Authorized By:

Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-043	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/043	Service Request Date	26/03/2024
Sample ID No.:	URA/ID/A-24/03/043	Field Data Sheet No.	URA/FDS/A-24/03/043
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	26/03/2024	Date of Testing	27/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Main Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 39 °C
	Rel. Humidity:	Min.: 38 %	Max.: 89 %
		Avg.: 30 °C	Avg.: 63 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.31
2.	Flow Rate of PM ₁₀	m ³ /min	1.07
3.	Volume of Air Sampled for PM ₁₀	m ³	1560.7
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.4

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	17.6	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003785F				
Test Report No.:	URA/24/03/AIL-J/A-044	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/044	Service Request Date	26/03/2024	
Sample ID No.:	URA/ID/A-24/03/044	Field Data Sheet No.	URA/FDS/A-24/03/044	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	26/03/2024	Date of Testing	27/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Emergency Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 39 °C	Avg.: 30 °C
	Rel. Humidity:	Min.: 38 %	Max.: 89 %	Avg.: 63 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.00
2.	Flow Rate of PM ₁₀	m ³ /min	1.11
3.	Volume of Air Sampled for PM ₁₀	m ³	1598.4
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.0

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

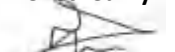
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	82.9	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	37.5	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	22.3	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	23.6	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	8	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	14.7	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

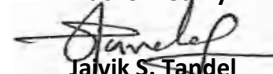
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-044	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/044	Service Request Date	26/03/2024
Sample ID No.:	URA/ID/A-24/03/044	Field Data Sheet No.	URA/FDS/A-24/03/044
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	26/03/2024	Date of Testing	27/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Emergency Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 39 °C
	Rel. Humidity:	Min.: 38 %	Max.: 89 %
		Avg.: 30 °C	Avg.: 63 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.00
2.	Flow Rate of PM ₁₀	m ³ /min	1.11
3.	Volume of Air Sampled for PM ₁₀	m ³	1598.4
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.0

➤ Environmental Conditions during testing : Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ Test Parameter Results


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	17.9	--	UERL/AIR/SOP/07

Remarks:

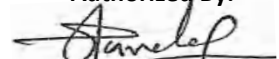
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003786F				
Test Report No.:	URA/24/03/AIL-J/A-045	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/045	Service Request Date	26/03/2024	
Sample ID No.:	URA/ID/A-24/03/045	Field Data Sheet No.	URA/FDS/A-24/03/045	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	26/03/2024	Date of Testing	27/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	ETP Expansion Area			
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 39 °C	Avg.: 30 °C
	Rel. Humidity:	Min.: 38 %	Max.: 89 %	Avg.: 63 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.14
2.	Flow Rate of PM ₁₀	m ³ /min	1.16
3.	Volume of Air Sampled for PM ₁₀	m ³	1680.1
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	72.9	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	27.7	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	19.7	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	21.6	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	7.3	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:

Nikunj D. Patel
(Chemist)

Authorized By:

Jajvik S. Tandel
(Manager - Operations)

**TEST REPORT
(AMBIENT AIR MONITORING)**

Test Report No.:	URA/24/03/AIL-J/A-045	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/045	Service Request Date	26/03/2024
Sample ID No.:	URA/ID/A-24/03/045	Field Data Sheet No.	URA/FDS/A-24/03/045
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	26/03/2024	Date of Testing	27/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	ETP Expansion Area		
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 39 °C
	Rel. Humidity:	Min.: 38 %	Max.: 89 %
		Avg.: 30 °C	Avg.: 63 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.14
2.	Flow Rate of PM ₁₀	m ³ /min	1.16
3.	Volume of Air Sampled for PM ₁₀	m ³	1680.1
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003790F				
Test Report No.:	URA/24/03/AIL-J/A-049	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/049	Service Request Date	28/03/2024	
Sample ID No.:	URA/ID/A-24/03/049	Field Data Sheet No.	URA/FDS/A-24/03/049	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	28/03/2024	Date of Testing	29/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Main Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 18 °C	Max.: 30 °C	Avg.: 24 °C
	Rel. Humidity:	Min.: 42 %	Max.: 73 %	Avg.: 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.54
2.	Flow Rate of PM ₁₀	m ³ /min	1.09
3.	Volume of Air Sampled for PM ₁₀	m ³	1604.9
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.6

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	84.8	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	35.4	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	23.8	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	26.4	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	8.8	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jajvik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-049	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/049	Service Request Date	28/03/2024
Sample ID No.:	URA/ID/A-24/03/049	Field Data Sheet No.	URA/FDS/A-24/03/049
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	28/03/2024	Date of Testing	29/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Main Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 18 °C	Max.: 30 °C
	Rel. Humidity:	Min.: 42 %	Max.: 73 %
		Avg.:	24 °C
		Avg.:	60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/01	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.54
2.	Flow Rate of PM ₁₀	m ³ /min	1.09
3.	Volume of Air Sampled for PM ₁₀	m ³	1604.9
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.6

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003791F				
Test Report No.:	URA/24/03/AIL-J/A-050	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/050	Service Request Date	28/03/2024	
Sample ID No.:	URA/ID/A-24/03/050	Field Data Sheet No.	URA/FDS/A-24/03/050	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	28/03/2024	Date of Testing	29/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	Near Emergency Gate			
Environmental Conditions during Sampling :	Temp.:	Min.: 18 °C	Max.: 30 °C	Avg.: 24 °C
	Rel. Humidity:	Min.: 42 %	Max.: 73 %	Avg.: 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.03
2.	Flow Rate of PM ₁₀	m ³ /min	1.18
3.	Volume of Air Sampled for PM ₁₀	m ³	1701.3
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.1

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	87.8	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	41.5	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	24.2	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	26.9	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	7.3	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	4.1	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:

Nikunj D. Patel
(Chemist)

Authorized By:

Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-050	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/050	Service Request Date	28/03/2024
Sample ID No.:	URA/ID/A-24/03/050	Field Data Sheet No.	URA/FDS/A-24/03/050
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	28/03/2024	Date of Testing	29/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	Near Emergency Gate		
Environmental Conditions during Sampling :	Temp.:	Min.: 18 °C	Max.: 30 °C
	Rel. Humidity:	Min.: 42 %	Max.: 73 %
		Avg.: 24 °C	Avg.: 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	210103156	30/03/2023	29/03/2024
UERL/AIR/FPS/02	Fine Particulate Sampler	210202147	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.03
2.	Flow Rate of PM ₁₀	m ³ /min	1.18
3.	Volume of Air Sampled for PM ₁₀	m ³	1701.3
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.1

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	26.8	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



**TEST REPORT
(AMBIENT AIR MONITORING)**

ULR - TC77532400003792F				
Test Report No.:	URA/24/03/AIL-J/A-051	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/051	Service Request Date	28/03/2024	
Sample ID No.:	URA/ID/A-24/03/051	Field Data Sheet No.	URA/FDS/A-24/03/051	
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.			
Dates of Sampling :	28/03/2024	Date of Testing	29/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	ETP Expansion Area			
Environmental Conditions during Sampling :	Temp.:	Min.: 18 °C	Max.: 30 °C	Avg.: 24 °C
	Rel. Humidity:	Min.: 42 %	Max.: 73 %	Avg.: 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.47
2.	Flow Rate of PM ₁₀	m ³ /min	1.11
3.	Volume of Air Sampled for PM ₁₀	m ³	1629.7
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	75.8	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	33.9	60	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	23.3	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	26.4	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	5.9	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	BDL (MDL:5.0)	400	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m ³	BDL (MDL:1.0)	2.0	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m ³	BDL (MDL:0.5)	1.0	IS: 5182 (Part 22)
9.	Benzene	µg/m ³	BDL (MDL:1.0)	5.0	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m ³	BDL (MDL:0.1)	1.0	IS: 5182 (Part 12)
11.	Nickel	ng/m ³	BDL (MDL:1.0)	20	IS: 5182 (Part 26)
12.	Arsenic	ng/m ³	BDL (MDL:1.0)	6.0	IS: 5182 (Part 22)
13.	Chlorine (Cl ₂)	µg/m ³	4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:

Nikunj D. Patel
(Chemist)

Authorized By:

Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/03/AIL-J/A-051	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/051	Service Request Date	28/03/2024
Sample ID No.:	URA/ID/A-24/03/051	Field Data Sheet No.	URA/FDS/A-24/03/051
Name & Add. of Customer	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Dates of Sampling :	28/03/2024	Date of Testing	29/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	ETP Expansion Area		
Environmental Conditions during Sampling :	Temp.:	Min.: 18 °C	Max.: 30 °C
	Rel. Humidity:	Min.: 42 %	Max.: 73 %
		Avg.:	24 °C
		Avg.:	60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/03	Respirable Dust Sampler	210103158	30/03/2023	29/03/2024
UERL/AIR/FPS/03	Fine Particulate Sampler	210202146	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.47
2.	Flow Rate of PM ₁₀	m ³ /min	1.11
3.	Volume of Air Sampled for PM ₁₀	m ³	1629.7
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.5

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m ³	26.3	--	UERL/AIR/SOP/07

Remarks:

Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Fandel
(Manager - Operations)



AARTI INDUSTRIES LIMITED

(A Government Recognised Export House)

Unit - I

Factory :

Plot No. 758/1, 2 & 3, P. B. No. 23,
G.I.D.C., Jhagadia - 393-110.
Dist. Bharuch, Gujarat, INDIA.
Ph. No. : 02645 - 226278, 226277
EPABX No. : 9537011711, 9537011811
Fax No. : 02645 - 226178

To

Date : 17.10.2016

The Environment Engineer

Unit Head – Ankleshwar

GPCB, Gandhinagar

ID - 14855

Sub: Dismantling of Captive Liquid Incinerator

Respected Sir,

We are having Captive Liquid Incinerator of 20 KLD capacity . However , we have stopped using the same since May 2015 after successful commissioning & utilisation of ATFD at our unit to take care of MEE bottom material .

As Liquid Incinerator is no more being utilised , we would like to dismantle the same .

We request you to kindly take a note of the same .

Thanking You

Faithfully Yours

For Aarti Industries limited

Authorized Signatory

CC: Unit Head – Hazardous Waste Cell , GPCB - HO

: RO – GPCB, Ankleshwar

Gujarat Pollution Control Board
Sector No. 10 A,
Gandhinagar - 382 010.

Regd. Office : Plot No. 801/23, G.I.D.C. Estate, Phase III, Vapi - 396 195.
Tel. : (0260) 2431366, 2400059, 2400158 Fax : (0260) 2401322

Admn. Office : Udyog Kshetra, 2nd Floor, Mulund, Goregaon Link Road, L.B.S. Marg, Mulund (West), Mumbai - 400 080.
Phone : (022) 25918195, 67976697, 67976666 Fax : (022) 25904806, 25653185, 67976687



06TH OCTOBER, 2022

To,
AARTI INDUSTRIES LTD. UNIT-1 (758)
PLOT No.758/1-2
GIDC,
JHAGADIA.

Sub: Membership Certificate for Incinerable Waste Facility.

Dear Sir,

We hereby certify that you have become member for the common incineration facility of **BEIL INFRASTRUCTURE LIMITED** (FORMERLY KNOWN AS BHARUCH ENVIRO INFRASTRUCTURE LTD), at GIDC, Ankleshwar & Dahej. You have booked quantity of **50 MT/Year**. You have paid Registration fees for common incinerator membership. Your Membership No. is **CI/JHG/003**.

Waste will be accepted after submitting valid authorization of GPCB.

Thanking you,

Yours faithfully,
For, BEIL INFRASTRUCTURE LIMITED


AUTHORISED SIGNATORY



BEIL INFRASTRUCTURE LIMITED
(formerly known as Bharuch Enviro Infrastructure Limited)

REF: BEIL/ANK/2019

11th JANUARY, 2020

To,
AARTI INDUSTRIES LTD. UNIT-1 (758)
PLOT No.758/A,
GIDC,
JHAGADIA, GUJARAT.

Sub: Membership Certificate for Common Solid Waste Disposal Facility.

Dear Sir,

We hereby certify that you have become member of the common Solid/Hazardous Waste Disposal Facility developed by For, BEIL INFRASTRUCTURE LIMITED (Formerly Known as Bharuch Enviro Infrastructure Ltd), at GIDC, Ankleshwar. You have booked solid waste quantity **2800 MT/ Year** (Original Booked Quantity **900 MT** + Increased Quantity **1900 MT**). Your Membership No. is **JHG/008**.

Thanking you,

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

AUTHORISED SIGNATORY



Certificate

Certificate No.: 120000010

To Whomsoever it may concern

This is to certify that

AARTI INDUSTRIES LTD.

PLOT NO. 758 / 1-2-3,
GIDC ESTATE JHAGADIA,
BHARUCH

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 : 24.02.2022

For, Saurashtra Enviro Projects Pvt. Ltd.

Date of Expiration : 23.02.2027

Place of Issue : Surat

Director

SUBJECT TO SURAT JURISDICTION



"Certificate"

DETOX INDIA
operated by  **VEOLIA**

Certificate No.:100207

To Whomsoever it may concern

This is to certify that
AARTI INDUSTRIES LTD.

**PLOT NO. 758 / 1-2-3,
GIDC ESTATE JHAGADIA,
BHARUCH**

is a valid member of

SAFE ENVIRO PRIVATE LIMITED

SEPL - Magnad

for

Integrated Common Hazardous Waste Management Facility

This membership is valid for a period of

05 Years

Date of Issue :27-10-2021

Date of Expiration : 27-10-2026

Place of Issue : Surat

For, Safe Enviro Private Limited

Director

SUBJECT TO SURAT JURISDICTION

Safe Enviro Private Limited

Survey No. 868, Village - Magnad, Tal. - Jambusar, Dist. - Bharuch - 392150 (Guj.) INDIA
Corporate Office : Detox House, Opp. Gujarat Samachar Press, Udhna Darwaja, Ring Road, Surat-395 002 (Guj.) INDIA
Ph. : +91 261 2351248, 2346181 | E-mail : info.safeenviro@veolia.com | CIN : US1101GJ2015PTC083237

Certificate



To whomsoever it may concern
This is to certify that

Certificate No : 410002257

AARTI INDUSTRIES LIMITED

PLOT NO-758/1-2-3,
GIDC ESTATE JHAGADIA,
JHAGADIA
Gujarat

is a valid member of

Recycling Solutions Private Limited Unit-II

for Alternate Fuel Resource Facility.

This membership is valid for a period of
10 Years

For, Recycling Solutions Private Limited Unit-II

Date of Issue : 20.11.2019

Date of expiration : 19.11.2029

Place of Issue : SURAT

Director/Authorised signatory

Waste Information

SrNo	Type Of Waste	Sign Qty(TPA)	SrNo	Type Of Waste	Sign Qty(TPA)
1	DISTILLATION RESIDUE.	240.000			0.000
Total Sign Qty (TPA)					240.000

SUBJECT TO JURISDICTION



महाराष्ट्र MAHARASHTRA

© 2022 ©

BX 509207

प्रधान मुद्रांक कार्यालय, मुंबई
प.म वि.क. १.००००१०
- 2 MAR 2023
सक्षम अधिकारी L

Service Agreement

This Service Agreement (hereinafter referred to as the "Agreement"), is made at Mumbai and entered into this 10th day of March, 2023

By and between

AARTI INDUSTRIES LTD, a Company incorporated under the Companies Act, 1956 and having its corporate office at 71, Udyog Kshetra, 2nd floor, Mulund Goregaon Link Road, Mulund (West), Mumbai-400080, Maharashtra, India (hereinafter referred to as "**First Party/AARTI INDUSTRIES LTD**"), which expression shall, unless repugnant to the context or meaning thereof, mean and include its legal representatives, successors & permitted assigns) of the One part.

And

Ambuja Cements Limited, a Company incorporated under the Companies Act, 1956 and having its registered Office at Adani Corporate House, Shantigram, Near Vaishnav Devi Circle, S.G.Highway, Khodiyar, Ahmedabad – 382421, Gujarat and Corporate office at Ambuja Cements Limited, Elegant Business Park, MIDC Cross Road 'B', Off Andheri Kurla Road, Andheri (E), Mumbai – 400059, Maharashtra, having its division/ unit/ section as "Geoclean" that provides specialized services for thermal destruction or recovery of hazardous/ non Hazardous waste material in cement kilns (hereinafter referred to as "**Second Party/ACL**"), which expression shall, unless repugnant to the context or meaning thereof, mean and include its legal representatives, administrators, executors, successors & permitted assigns) of the Other part.



जोडपत्र - २ Annexure - II

दस्ताचा प्रकार	AGREEMENT
दस्त नोंदणी करणार आहेत का ?	YES/NO
मिलकतीचे वर्णन -	
मुद्रांक विकत घेणाऱ्याचे नाव	
दुसऱ्या पक्षकाराचे नाव	Arcs Inds Ltd.
हस्ते असल्यास त्याचे नाव व पत्ता	
मुद्रांक शुल्क रक्कम	
मुद्रांक विकत नोंद घेणे अनु. क्रमांक/दिनांक -	227
मुद्रांक विकत घेणाऱ्याची सही	A.R. Kadam
मुद्रांक विक्रेत्याची सही	
परवाना क्रमांक : ८००००९०	
मुद्रांक विक्रेतेचे नाव/पत्ता : श्री. कल्पेश प्रेमजी गाला	
शांप नं. ४, भाण्योदय बिल्डिंग, ७९ मणीबदास बास्कर रोड, फोर्ट, मुंबई-४०० ००९	
ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी	
मुद्रांक खरेदी केल्यापासून ६ महिन्यांत कारणाची माहिती देणे आवश्यक आहे	

Ambuja Cements Ltd.
Elegant Business Park, 'D' Block,
MIDC Cross Road - B,
Off. Andheri-Kurla Road,
Andheri (East), Mumbai - 400 059, India.

- 8 MAR 2023

- 8 MAR 2023





महाराष्ट्र MAHARASHTRA

2022

36AA 750559



जिल्हा कोषागार कार्यालय, ठाणे

16 JAN 2023

Service Agreement

This Service Agreement (hereinafter referred to as the "Agreement"), is made at Mumbai and entered into this 10th day of March, 2023

By and between

AARTI INDUSTRIES LTD, a Company incorporated under the Companies Act, 1956 and having its corporate office at 71, Udyog Kshetra, 2nd floor, Mulund Goregaon Link Road, Mulund (West), Mumbai-400080, Maharashtra, India (hereinafter referred to as "**First Party/AARTI INDUSTRIES LTD**"), which expression shall, unless repugnant to the context or meaning thereof, mean and include its legal representatives, successors & permitted assigns) of the One part.

And

Ambuja Cements Limited, a Company incorporated under the Companies Act, 1956 and having its registered Office at Adani Corporate House, Shantigram, Near Vaishnav Devi Circle, S.G.Highway, Khodiyar, Ahmedabad – 382421, Gujarat and Corporate office at Ambuja Cements Limited, Elegant Business Park, MIDC Cross Road 'B', Off Andheri Kurla Road, Andheri (E), Mumbai – 400059, Maharashtra, having its division/ unit/ section as "Geocycle" that provides specialized services for thermal destruction or recovery of hazardous/ non Hazardous waste material in cement kilns (hereinafter referred to as "**Second Party/ACL**"), which expression shall, unless repugnant to the context or meaning thereof, mean and include its legal representatives, administrators, executors, successors & permitted assigns) of the Other part.



18 JAN, 2023

// श्री //

जोडपत्र-2 / Annexure - II

खालील शिक्का प्रतिज्ञापत्रा व्यतिरिक्त वापरण्यात येणा-या मुद्रांकावर उमटवावा /
(Except affidavit, this seal put for all documents)

18
JAN,
2023

1) मुद्रांक विक्री नोंदवही अनुक्रमांक / दिनांक
(Serial No./Date)

408945

2) दस्तावा प्रकार
(Name of Document)

3) दस्त नोंदणी करणार आहेत का ?
(Whether it is to be registered)

होय/नाही
Yes/No

4) मिळकतीचे थोडक्यात वर्णन

5) मुद्रांक विकत घेणा-याचे नाव व सही
(Stamp Purchaser's Name & Signature)

6) हस्ते असल्यास त्याचे नाव, पत्ता व सही
(If through other person then
Name, Address & Signature
Purchaser Sd/-

7) दुस-या पक्षकाराचे नाव
(Name of the other party)

8) मुद्रांक शुल्क रक्कम
(Stamp Duty Amount)

00/-

9) परवानाधारक / मुद्रांक विक्रेत्याची सही
परवाना क्रमांक जुना क्रमांक - 06/2003
(नविन परवाना क्रमांक - 1201015)
सौ. एच. डी. पाटील-वृध्दी टायपिंग अँड कम्प्युटर सेंटर,
मयुरेश बिल्डिंग, टेंभीनाका, ठाणे-प-400601

Sd/-

ज्या कारणासाठी ज्यांनी मुद्रांक खरेदी केला त्यांनी त्याच कारणासाठी मुद्रांक खरेदी केल्यापासून 6/सहा महिन्यात वापरणे बंधनकारक आहे.)



Both **First party** and **Second Party** shall be collectively addressed / referred to as "**the Parties**" and individually as "**Party**" hereinafter in this Agreement.

WHEREAS, **AARTI INDUSTRIES LTD** is engaged in the business of manufacturing specialty chemicals & intermediates and having its manufacturing plant situated at **Plot No 758/1-2-3, GIDC Estate, Jhagadia-393110, Dist.-Bharuch, Gujarat** (hereinafter referred to as "**Manufacturing Plant**") and is in search of a cost effective and environment- friendly method of disposing of **(1) Any process or Distillation residue (2) ETP/Silica Sludge (3) Mixed Solid Waste and (4) Spent Carbon Waste**, as mentioned in Annexure A (hereinafter referred to as the "**Waste Material**") which are categorized as **Hazardous Waste** as per **Hazardous and Other Wastes (Management and Trans boundary Movement) Rules 2016**.

AND WHEREAS, **ACL** is in the business of manufacture and sale of different types and grades of cement and has the capability to dispose the waste materials in an environment friendly manner in the cement kiln process having high temperature and long residence time (hereinafter referred to as "**Co-Processing**") while simultaneously producing cement of desired quality.

AND WHEREAS, **Geoclean** is a business unit of **ACL** that provides specialized services for thermal destruction or recovery of hazardous/non hazardous waste material in cement kilns.

AND WHEREAS **AARTI INDUSTRIES LTD** has approached **ACL** for evaluating the feasibility of safe disposal of the **Waste Material** which is generated at its **Manufacturing Plant**, in an environment-friendly manner and based on the evaluation report, **ACL** has offered to **Co-Process** the **Waste Material** generated by **AARTI INDUSTRIES LTD's Manufacturing Plant** in the **Cement Kiln** at **ACL's Ambujanagar Cement Works, Kodinar Survey No. 315-320, 351-352, 395-410, P.O. Ambujanagar, Taluka-Kodinar, District-Gir, Somanth, Gujarat-362715** (hereinafter referred to as the "**Cement Plant**").

AND WHEREAS, **AARTI INDUSTRIES LTD** and **ACL** have agreed that **ACL** shall provide the services of **Co-Processing** the **Waste Material** in the **Cement Kiln** at its **Cement Plant** (hereinafter referred to as the "**Services**"), subject to **AARTI INDUSTRIES LTD** and **ACL** obtaining all statutory clearances, consents, no objection certificate, writings and confirmations as may be applicable from various authorities and **Government Agencies** for the said purpose.

NOW, THEREFORE, for and in consideration of the forgoing premises and of the mutual covenant herein after stipulated, the Parties hereto, one with the other, do hereby agrees as follows:

1.0 Execution of Services

1.1 Scope

ACL shall during the Term of the Agreement (as set out in Clause 7 herein below), provide the **Services** i.e. **Co-Processing** of all the consignments of **Waste Material** of **AARTI INDUSTRIES LTD**, delivered to the **Cement Plant** of **ACL**, which conform to the specification set out in Annexure A attached to the Agreement and which does not contain any of the item listed in the banned item list as set out in Annexure B attached to the Agreement.

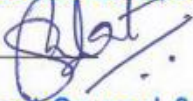


IN WITNESS WHEREOF this Agreement is executed in two counterparts on the day and year first above written. Each Party hereto shall preserve one counterpart of the Agreement.

SIGNED AND DELIVERED for and on behalf of

AARTI INDUSTRIES LTD, by the hand of its authorized signatory,

For Aarti Industries Limited



Ms. Sandhya Tolat, General Counsel

in the presence of:
General Counsel &
Authorized Signatory

1. 
Signature of Witness 1,

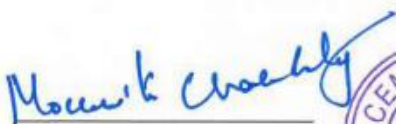
Shreya Mehta
(Name of Witness 1)

2. 
Signature of Witness 2,

Abhishek Toppo
(Name of Witness 2)

SIGNED AND DELIVERED for and on behalf of

Ambuja Cements Limited, by the hand of its authorized signatory,






MOUNITA CHAKRABORTY

in the presence of:

1. 
Signature of Witness 1,

GAURAV KUSHWAHA
(Name of Witness 1)

2. 
Signature of Witness 2,

RAKESH SINHA
(Name of Witness 2)



Shree Cement Ltd, Ras [1000023]

Manifest No:
2375755
01/02/2024

Copy 6

To be forwarded by To be returned by the Operator of the facility to the Occupier after treatment and disposal of hazardous material/waste.

Sender's Details					
Sender Name	Aarti Industries Ltd. [14855]				
Address	, Taluka :JHA Distict:ANK Pin no:393110				
Contact Details	8758496131 krishan.maurya@aarti-industries.com	GPS Coordinates	Lat :21.65688408759508 Long :73.12803384273812		
Receiver's Details					
State	Rajasthan	Type of Facility	Actual user (out state)		
Facility Details	Shree Cement Ltd, Ras [1000023]				
Contact Details	8209639383 arun.sharma2@shreecement.com	GPS Coordinates	Lat :26.270555 Long:74.190633		
Address	Shree Cement Ltd, Ras				
Waste Details					
Waste Details	II~B~B15~Inorganic Acids (Spent Acids)				
Waste Intended for	Recycling	Total Qty	43.690MT	Consistency	liquid
Transporter Details					
Name	PEREGRINE	Contact Details	9824544438 pathak2009@rediffmail.com		
Address	Peregrine House,Plot No- A1/110, Diamond Estate,B/H Mahadev Hotel NH No 08 MOTALI District :Bharuch Taluka :Bharuch				
Vehicle Details					
Vehicle no	GJ16AW1979 (IMEI No :869604061238597)	GPS Enabled	Yes	Type of Vehicle	Tanker
Driver name	JAVED	Driver Contact No	7977324589		
Waste Transportation Details					
Vehicle Depart.	01/02/2024 3:11PM	Number of Drums	0	Loose Waste	43.690
Remarks	SPENT SULPHURIC ACID		No of bags	0	
Sender's Declaration : 1. I hereby declare that contents of the consignment are fully and accurate described above by proper shipping name and are categorized , packed, marked , and labeled , and are all in all respects in proper condition for transport by road according to applicable national government regulations. 2. I hereby declare that we have obtained membership of common facility / carried out agreement with actual user for disposal/ actual use of hazardous waste.					
Aarti Industries Ltd. Plot No 758/1-2-3, G.I.D.C., Name and stamp of senders Dist. Bharuch-Gujarat		01 FEB 2024 Date:		Signature:	
Transporter's Acknowledgement of Receipt of waste Stamp:		01 FEB 2024 Date:		Signature:	
Receiver's Certification of Receipt of Hazardous waste					

In Principal Approval Details :Accepted - 01/02/2024 2:38PM - Remarks :Ok

Stamp:



Date:

03/02/2024

Signature:

By scanning QR code, copy of transporter will be display. (All copy has same information)



BEIL Infrastructure Ltd [40137]
(Hazardous Waste Manifest)

Manifest No:
2314532
21/12/2023

Copy 6

To be forwarded by To be returned by the Operator of the facility to the Occupier after treatment and disposal of hazardous material/waste.

Sender's Details					
Sender Name	Aarti Industries Ltd. [14855]				
Address	, Taluka :JHA Distict:ANK Pin no:393110				
Contact Details	8758496131 krishan.maurya@aarli-industries.com	GPS Coordinates	Lat :21.65688408759508 Long :73.12603364273612		
Receiver's Details					
State	Gujarat	Type of Facility	Actual user (within state)		
Facility Details	BEIL Infrastructure Ltd [40137]				
Contact Details	9099057365 mistryrg@bell.co.in	GPS Coordinates	Lat :21.7240193450719 Long:72.59621502850457		
Address	GIDC , DAHEJ, Taluka :VAG Distict:BHA Pin no:392130				
Waste Details					
Waste Details					
Waste Intended for	Recycling	Total Qty	0.790MT	Consistency	Solid
Transporter Details					
Name	Purbia Enterprise	Contact Details	9979290240 purbiaenterprise@gmail.com		
Address	A-25, Shri Hari Industrial Estate,Village: Dadhal District :Ankleshwar Taluka :Ankleshwar				
Vehicle Details					
Vehicle no	GJ16AW1729 (IMEI No :358980100860155)	GPS Enabled	Yes	Type of Vehicle	Tempo
Driver name	RAMKESH YADAV	Driver Contact No	9752886081		
Waste Transportation Details					
Vehicle Depart.	21/12/2023 4:15PM	Number of Drums	259	Loose Waste	0.790
Remarks	HDPE Drum (200L:21no, 50L:172no, 35L:59no, 25L:7no)		No of bags	0	
Sender's Declaration :					
1. I hereby declare that contents of the consignment are fully and accurate described above by proper shipping name and are categorized , packed, marked , and labeled , and are all in all respects in proper condition for transport by road according to applicable national government regulations.					
2. I hereby declare that we have obtained membership of common facility / carried out agreement with actual user for disposal/ actual use of hazardous waste.					
Name and stamp of sender:	AARTI INDUSTRIES LTD. Plot No.758/1,2,3, GIDC, Survey No. 359, 360, Jhagadia, Dist. Bharuch, Gujarat - 393 110.			Signature:	
Transporter's Acknowledgement of Receipt of waste Stamp:	Date:			Signature:	
Receiver's Certification of Receipt of Hazardous waste					

In Principal Approval Details :Accepted - 21/12/2023 4:16PM - Remarks :empty containers

Stamp:



Date:

Signature:



भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO)

9वीं मंजिल, पार्क पैराडाइज, वडसर

वडोदरा- 390012

9th Floor, Park Paradise, Vadsar,

Vadodara - 390012

E-mail : jtcce.vadodara@explosives.gov.in

Phone/Fax No : 0265 - 2361035

संख्या /No. : P/WC/GJ/15/2598 (P12353)

दिनांक /Dated : 31/10/2023

सेवा में
/To,

M/S. AARTI INDUSTRIES LTD.,
758/1-A GIDC Jhagadia,,
JHAGADIA,
GIDC Jhagadia,
Bharuch,
Taluka: Jhagadia,
District: BHARUCH,
State: Gujarat
PIN: 393110

विषय /Sub : Plot No, NA, JAGADIA, JAGADIA, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 में स्थित विद्यमान पेट्रोलियम वर्ग A अधिष्ठापन में अनुज्ञप्ति सं P/WC/GJ/15/2598 (P12353) के नवीकरण के संदर्भ में । Existing Petroleum Class A Installation at Plot No, NA, JAGADIA, JAGADIA, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 - Licence No. P/WC/GJ/15/2598 (P12353) - Renewal regarding.

महोदय
/Sir(s),

कृपया आपके पत्र क्रमांक OIN1507684 दिनांक 30/10/2023 का अवलोकन करें ।

Please refer to your letter No.: OIN1507684, dated 30/10/2023

अनुज्ञप्ति संख्या P/WC/GJ/15/2598 (P12353) दिनांक 21/02/2018 को दिनांक 31/12/2028 तक नवीनीकृत कर इस पत्र के साथ अग्रषित की जा रही है ।

Licence No. P/WC/GJ/15/2598 (P12353) dated 21/02/2018 is forwarded herewith duly renewed upto 31/12/2028.

2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कडाई से पालन करें । अनुज्ञप्ति के नवीकरण हेतु समस्त दस्तावेजों को अनुज्ञप्ति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व to Jt. Chief Controller of Explosives, Vadodara, so as to reach his कार्यालय में प्रस्तुत करें ।

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

कृपया पावती दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

((तेजवीर सिंह)

(Tejveer Singh))

उप विस्फोटक नियंत्रक

Dy. Controller of Explosives

कृते संयुक्त मुख्य विस्फोटक नियंत्रक

For Jt. Chief Controller of Explosives

वडोदरा/Vadodara

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : <http://peso.gov.in> देखें)

(For more information regarding status, fees and other details please visit our website: <http://peso.gov.in>)

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

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

अनुज्ञप्ति सं. (Licence No.) : **P/WC/GJ/15/2598(P12353)**

फीस रूप (Fee Rs.) **22700/-** per year

M/S. AARTI INDUSTRIES LTD., 758/1-A GIDC Jhagadia,, JHAGADIA, GIDC Jhagadia, Bharuch, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम **404.00 KL** आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या **P/WC/GJ/15/2598(P12353)** तारीख **07/09/2017** जो कि इससे उपाबद्ध है, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to **M/S. AARTI INDUSTRIES LTD., 758/1-A GIDC Jhagadia,, JHAGADIA, GIDC Jhagadia, Bharuch, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110** valid only for the importation and storage of **404.00 KL** Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No **P/WC/GJ/15/2598(P12353)** dated **07/09/2017** attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December **2028** तक प्रवृत्त रहेगी।
The Licence shall remain in force till the 31st day of December **2028**

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	404.00 KL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	404.00 KL

August 17, 2000

For Jt. Chief Controller of Explosives
WC, Mumbai

- 1). Amendment dated - 05/08/2009
- 2). Amendment dated - 18/02/2010
- 3). Amendment dated - 21/02/2018

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

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टयां संलग्न अनुमोदित नक्शों में दिखाई गई हैं **Plot No: NA, JAGADIA, JAGADIA, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110** स्थान पर अवस्थित है तथा उसमें निम्नलिखित **FOUR UNDERGROUND PETROLEUM CLASS A STORAGE TANK TOGETHER WITH CONNECTED FACILITIES.** सम्मिलित हैं।

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at **Plot No: NA, JAGADIA, JAGADIA, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110** and consists of **FOUR UNDERGROUND PETROLEUM CLASS A STORAGE TANK TOGETHER WITH CONNECTED FACILITIES.** together with connected facilities.

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signature.

अनुज्ञप्ति संख्या-(Licence No.) P/WC/GJ/15/2598 (P12353)

नवीनीकरण के पृष्ठांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञप्ति फिस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी। This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.	नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry of license	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority.
	09/01/2006	31/12/2008	Sd/- Rajnish Piplani
	19/11/2008	31/12/2009	Sd/- Ashendra Singh
	06/08/2009	31/12/2010	Sd/- Rajnish Piplani
	03/11/2010	31/12/2013	Sd/- Ashendra Singh
	21/10/2013	31/12/2023	Sd/- R.K.MAINDOLA Dy. Chief Controller of Explosives For Jt. Chief Controller of Explosives Mumbai
	31/10/2023	31/12/2028	Tejveer Singh Dy. Controller of Explosives For Jt. Chief Controller of Explosives Vadodara

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

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

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



भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO)

9वीं मंजिल, पार्क पैराडाइज, वडसर

वडोदरा- 390012

9th Floor, Park Paradise, Vadsar,

Vadodara - 390012

E-mail : jtce.vadodara@explosives.gov.in

Phone/Fax No : 0265 - 2361035

संख्यां /No. : P/WC/GJ/15/2715 (P404037)

दिनांक /Dated : 11/10/2023

सेवा में /To,

M/s. M/s. AARTI INDUSTRIES LIMITED,
PLOT NO. 756/4,5,6,7 & 779, GIDC Industrial Area,
GIDC Jhagadia,
Jhagadia,
Taluka: Jhagadia,
District: BHARUCH,
State: Gujarat
PIN: 393110

विषय /Sub : Survey No, 135, 136 & Plot No. 758/1-2-3, 779,756/2A/B, 756/3A/B,756/4A/B,756/5A/B,, GIDC JHAGADIA, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 में स्थित पेट्रोलियम वर्ग A अधिष्ठापन - पेट्रोलियम नियम 2002 के अंतर्गत प्ररूप XV में जारी अनुज्ञापि सं P/WC/GJ/15/2715 (P404037) - संशोधन के संदर्भ में ।
Existing Petroleum Class A Installation at Survey No, 135, 136 & Plot No. 758/1-2-3, 779,756/2A/B, 756/3A/B,756/4A/B,756/5A/B,, GIDC JHAGADIA, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110- Licence No. P/WC/GJ/15/2715 (P404037) - granted in form XV under Petroleum Rules 2002 - Amendment regarding

महोदय
/Sir(s),

कृपया आपके उपर्युक्त विषय से संबंधित पत्र संख्या OIN1465378 दिनांक 10/10/2023 का संदर्भ ग्रहण करें ।

Reference to your letter No. OIN1465378 dated 10/10/2023 on the above subject.

दिनांक 31/12/2025 तक वैध अनुज्ञापि संख्या P/WC/GJ/15/2715 (P404037) दिनांक 11/10/2023 निम्नलिखित वर्ग एवं मात्राओं में पेट्रोलियम भंडारण के लिए यथा संशोधित कर इस पत्र के साथ लौटाई जा रही है ।
Licence No. P/WC/GJ/15/2715 (P404037) dated 11/10/2023 valid upto 31/12/2025 is returned herewith duly amended with respect to Lay out Amendment, Capacity Amendment,

पेट्रोलियम का विवरण /Description of Petroleum	किलोलीटरों में अनुज्ञापि क्षमता /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A, in bulk	1764.00 KL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B, in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C, in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total	1764.00 KL

कृपया पावती दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

(तेजवीर सिंह)
(Tejveer Singh)
उप विस्फोटक नियंत्रक
Dy. Controller of Explosives
कृते संयुक्त मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
वडोदरा/Vadodara

Copy forwarded to :-

1. The Additional District Magistrate, BHARUCH(Gujarat) with reference to his NOC No MAG/NOC/WS/15081563/1564/2020 Dated 02/03/2020

For Jt. Chief Controller of Explosives
Vadodara

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

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

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

अनुज्ञप्ति सं. (Licence No.): P/WC/GJ/15/2715(P404037)

फीस रूप (Fee Rs.) 50000/- per year

M/s. M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/4,5,6,7 & 779, GIDC Industrial Area, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 1764.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/WC/GJ/15/2715(P404037) तारीख 17/03/2020 जो कि इससे उपाबद्ध है, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/4,5,6,7 & 779, GIDC Industrial Area, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 valid only for the importation and storage of 1764.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/WC/GJ/15/2715(P404037) dated 17/03/2020 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2025 तक प्रवृत्त रहेगी।
The Licence shall remain in force till the 31st day of December 2025

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	1764.00 KL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	1764.00 KL

March 17, 2020

For Jt. Chief Controller of Explosives
WC, Mumbai

1). Amendment dated - 11/10/2023

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

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टां संलग्न अनुमोदित नक्शों में दिखाई गई हैं Survey No: 135, 136 & Plot No. 758/1-2-3, 779,756/2A/B, 756/3A/B,756/4A/B,756/5A/B,, GIDC JHAGADIA, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 9 Under Ground tank(s) for CLASS A सम्मिलित हैं।

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Survey No: 135, 136 & Plot No. 758/1-2-3, 779,756/2A/B, 756/3A/B,756/4A/B,756/5A/B,, GIDC JHAGADIA, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 and consists of 9 Under Ground tank(s) for CLASS A together with connected facilities.

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

अनुज्ञप्ति संख्या-(Licence No.) P/WC/GJ/15/2715 (P404037)

नवीनीकरण के पृष्ठांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

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

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

1).

18/12/2020 31/12/2025

Sd/-

Mohanlal Jana
Dy. Controller of Explosives
For Jt. Chief Controller of
Explosives
Vadodara

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

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

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

(Unit-1)
class 'B' & 'C'
solvents.



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

E-mail : jtccemumbai@explosives.gov.in

Phone/Fax No : 022 - 27575946, 27573881

संख्या /No. : P/HQ/GJ/15/5018 (P168896)

सेवा में /To.

M/s. Aarti Industries Ltd.,
Plot No. 758/1,2 & 3,
P.B.No.23, GIDC,
Jhagadia,
District: BHARUCH,
State: Gujarat
PIN: 393110

1432 दिनांक /Dated : 14/11/2014

18 NOV 2014

विषय /Sub : Plot No, Plot No. 758/1-2-3, GIDC, NA, Jhagadia, District: BHARUCH, State: Gujarat, PIN: 999999 में स्थित विद्यमान पेट्रोलियम वर्ग B,C अधिष्ठापन में अनुज्ञप्ति सं P/HQ/GJ/15/5018 (P168896) के नवीकरण के संदर्भ में ।
Existing Petroleum Class B,C Installation at Plot No, Plot No. 758/1-2-3, GIDC, NA, Jhagadia, District: BHARUCH, State: Gujarat, PIN: 999999 - Licence No. P/HQ/GJ/15/5018 (P168896) - Renewal regarding.

महोदय /Sir
(s).

कृपया आपके पत्र क्रमांक NIL दिनांक 16/09/2014 का अवलोकन करें ।
Please refer to your letter No.: NIL, dated 16/09/2014

अनुज्ञप्ति संख्या P/HQ/GJ/15/5018 (P168896) दिनांक 28/07/2009 को दिनांक 31/12/2024 तक नवीनीकृत कर इस पत्र के साथ अद्यपित की जा रही है ।

Licence No. P/HQ/GJ/15/5018 (P168896) dated 28/07/2009 is forwarded herewith duly renewed upto 31/12/2024.

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

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

कृपया पावती दें।
Please acknowledge the receipt.

भवदीय /Yours faithfully.

(एस.के.शुक्ला)
(S K Shukla)

उप मुख्य विस्फोटक नियंत्रक
Dy. Chief Controller of Explosives
कृते संयुक्त मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
नवी मुंबई (महा.)
M

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

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

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

अनुज्ञति सं. (Licence No.): P/HQ/GJ/15/5018(P168896)

फीस रूप (Fee Rs.) 2090/- per year

M/s. Aarti Industries Ltd., Plot No. 758/1,2 & 3, P.B.No.23, GIDC, Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 84.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/HQ/GJ/15/5018(P168896) तारीख 28/07/2009 जो कि इससे उपायद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञति अनुदत्त की जाती है।

Licence is hereby granted to M/s. Aarti Industries Ltd., Plot No. 758/1,2 & 3, P.B.No.23, GIDC, Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 valid only for the importation and storage of 84.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/GJ/15/5018(P168896) dated 28/07/2009 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञति 31st day of December 2024 तक प्रवृत्त रहेगी।
The Licence shall remain in force till the 31st day of December 2024

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञत मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	28.00 KL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	56.00 KL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	84.00 KL

July 28, 2009


Chief Controller of Explosives

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

अनुज्ञत परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टयां संलग्न अनुमोदित नक्शों में दिखाई गई हैं Plot No: Plot No. 758/1-2-3, GIDC, NA, Jhagadia, District: BHARUCH, State: Gujarat, PIN: 999999 स्थान पर अवस्थित हैं तथा उसमें निम्नलिखित one aboveground Petroleum Class B and one aboveground Petroleum Class C storage tanks together with connected facilities. सम्मिलित हैं।
The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Plot No: Plot No. 758/1-2-3, GIDC, NA, Jhagadia, District: BHARUCH, State: Gujarat, PIN: 999999 and consists of one aboveground Petroleum Class B and one aboveground Petroleum Class C storage tanks together with connected facilities. together with connected facilities.

पेज सं. 2

अनुज्ञति संख्या-(Licence No.) P/HQ/GJ/15/5018 (P168896)

नवीनीकरण के पृष्ठांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रोलियम अधिनियम, 1934 के उपबन्धों या उनके अधीन बनाए गए नियमों या इस अनुज्ञति की शर्तों का उल्लंघन न होने की दशा में यह अनुज्ञति फ़िस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी।
This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.

	नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry of license	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature and office stamp of the licencing authority.
1).	22/11/2011	31/12/2014	Sd/- Dr. M.L.Z. Ansari
2).	14/11/2014	31/12/2024	Sd/- S.K. Shukla Dy. Chief Controller of Explosives For Jt. Chief Controller of Explosives Mumbai

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

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

**PUBLIC LIABILITY ACT POLICY
POLICY SCHEDULE**

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

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

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

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

Territorial limits: Anywhere in India

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

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

Service Tax Registration No:

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

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

Date of Proposal and declaration:09/01/2024

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

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

For Tata AIG General Insurance Company Limited



Authorized Signatory

Date :18/01/2024

Place :MUMBAI

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

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

Tata-AIG General Insurance Company Limited



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

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

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



For Tata AIG General Insurance Company Limited

Authorized Signatory



On-Site Emergency Plan

[Prepared as required by Schedule 8-A, Rule 68 – J (12) (1) of The GFR 1963
&

[The rule 13(1) of MSIHC Rules 1989 (Manufacture, Storage and Import of Hazardous chemicals Rule -1989)]

OF

M/s. Aarti Industries Ltd. (Unit - 1)

Jhagadia

April 2021

Address:

Plot No: 758/1,2&3,GIDC, PB
No.23,
Jhagadia,
Dist-Bharuch,
Gujarat - 393110

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Preface

Our First Emergency Plan was prepared many years ago and then after it will be updated as & when required; based on learning from various Mock drills and on account of expansion in the facility. Mock drills will be conducted to test the plan and to improve our emergency preparedness. The results of these mock drills, identification and assessment of all maximum credible scenarios, study of various Rules, Regulations and standards will be taken as basis for modifying the ON-SITE Emergency Plan along with classification of Emergencies & requirements of implementation of ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018. The goals and objectives of all these efforts are to improve quality of work and working life through dedicated concentrated efforts consistent with the requirement of safety, health and environment at workplace.

As emergencies arise suddenly; the necessity to remain always alert & ready with supporting facilities to face them effectively; is of paramount importance. This document cannot be said to be complete as it only sets broad guidelines for emergency preparedness. Well planned and well rehearsed Emergency Plan will help organizations to mitigate / control emergency situations in minimum time and also to restart operation with minimum losses.

All the key personnel are requested to study the document and become familiar with the contents and disseminate information to those working with them.

Mr. Kirit Mehta
Occupier

Purpose

Major accidents may cause an emergency and it may lead to disaster, which may cause heavy damage to plant, property and harm to persons and create adverse effects on production.

Many disasters like Bhopal gas tragedy, Chernobyl Nuclear Disaster etc. have occurred at many places in the world causing heavy loss of life and property.

Emergency situation arises all of a sudden and creates havoc and damage to property, production and environment and harm to human beings.

Therefore, such situations and risks should be thought of, visualized and assessed in advance and it should be planned beforehand to tackle them immediately and control them within the shortest time.

We handle various hazardous chemicals & processes involving pressure and temperature. In spite of precautions and safety measures we take, an incidence of potential damage may arise occasionally. Such incidents if effectively handled by the Department Heads/ Shift-in-Charges / Shift Engineers would cease to be a potential hazard thereafter. However, in case the situation demands for greater assistance, the mitigation measures are not enough to control or when the Shift-in-Charge / Shift Engineer is in doubt of combating and controlling the situations with resources at his command, he will initiate the emergency procedure. "The purpose of this plan is to lay down guidelines to handle such emergencies."

Under the provision of Sec 41B (4) of the Factories Act 1948, every occupier shall draw up an On-site Emergency Plan and detailed disaster control measures for his factory and make known to the workers employed therein and to the general public living in the vicinity of the factory the safety measures required to be taken in the event of an accident taking place.

Similarly, Schedule 8-A of Sub rule 68-J-(12) (1) of Gujarat Factory Rule 1963, requires that every occupier of a hazardous factory shall prepare an ON-SITE emergency plan & The rule 13(1) of MSIHC Rules 1989 (Manufacture, storage and Import of Hazardous chemicals Rule, 1989) requires the Occupier of any Major Accident Hazards (MAH) installation to prepare and an On-site Emergency Plan and detailed disaster control measures including linkage with off Site Emergency Management for the factory. Accordingly, the ON-SITE and OFF-SITE emergency plan with details of disaster control measures has been prepared for the employees and general public living in the vicinity of the factory. This plan gives the safety measures to be taken in the event of any accident or disaster happening at the plant.

The provisions of the following guidelines are kept in mind while preparing this plan.

- Status relating to risk assessment and environment impact in case of Fire, Explosion and the measures taken for prevention of such accident.
- Probabilities of possible hazard due to the failure of provided control measures and equipment such as safety valve, pressure gauge, temperature indicator etc. at different stages of process.
- Provisions for all facilities and procedures for immediate control to minimize the effect of such probabilities.
- Arrangement with mutual aid agencies.

- Arrangement for informing workers through emergency alarm and public in vicinity and surrounding factories through telephone
- Arrangement for evacuation of persons likely to be affected due to emergency.
- Arrangement for transporting affected persons to the hospital and medical center through Car/Ambulance.
- Arrangement for necessary treatment and availability of antidotes at hospitals and at medical centers.
- Organization Chart for fixation of responsibilities of managers, officers, workers at different stages for handling emergencies due to fire, explosion etc.
- Details regarding alert systems like emergency detection and alarm.
- Notification of the place of gathering of workers and staff at the time of emergency.
- Information in detail, regarding any disaster, which might have occurred in the factory.
- Provisions of main control for 24 hours to use at the time of emergency.
- Arrangement regarding maintenance of different equipment, control measures and safe procedure of work so that they shall work effectively.
- A statement of all possible sources of accidents involving fire, explosion, and plan of showing the place of above accidents with the facilities to control the emergency near the place and at the control place.
- OFF-SITE emergency services that is a link between ON-SITE and OFF-SITE Emergency Plan. While preparing this plan, the following documents have been referred and thankful to those for their contribution.
- As per Gujarat Disaster Management Act, as requested shall assist the State Government, the Commissioner and the Collector in all disaster management activities and should prepare a disaster management plan in conformity with the other disaster management plans of local authorities, departments of Government having regard to the guidelines laid down in this behalf by the Authority.
- Each factory shall be responsible for effective implementation of the plan drawn up by it on this behalf. Each private and public sector entity shall provide assistance to the Authority, the Commissioner, the Collector and take such other steps as may be necessary for disaster management.

Objectives

To define and assess emergencies, including risk and environment impact assessment.

- To control and contain incidents.
- To safeguard employees and people in the vicinity.
- To minimize damage to property or/and the environment.
- To inform employees, the general public and the authority about the hazards/risks assessed, safeguards provided, residual risk if any and the role to be played by them in the event of emergency.
- To be ready for 'mutual aid' if need arises to help neighbouring units. Normal jurisdiction of an OEP is limited to the own premises only, but looking at the time factor in arriving at the external help or off-site plan agency, the jurisdiction must be extended outside to the extent possible in case of an emergency occurring outside.
- To inform authorities and mutual aid centres to come for help.
- To effect rescue and treatment of casualties. To count injured.
- To identify and list any dead.
- To inform and help relatives.
- To secure the safe rehabilitation of affected areas and to restore normalcy.
- To provide authoritative information to the news media.
- To preserve records, equipment etc, and to organise investigation into the cause of the emergency and suggest preventive measures to stop its recurrence.
- To ensure safety of the workers before personnel re-enter and resume duty.
- To work out a plan with all provisions to handle emergencies and to provide necessary inputs for emergency preparedness and the periodical rehearsal.

Definitions

Some definitions used in on-site emergency plan are given below:

Accident

An accident is an unplanned event, which has a probability of causing personal injury or property damage or both. It may result in physical harm (injury or disease) to a person, damage to property, loss to the company, a nearby area or any combination of these effects.

Major Accident

A major accident is a sudden, unexpected, unplanned event, resulting from uncontrolled developments during an industrial activity, which causes, or has the potential to cause-

- i) Serious adverse effects immediate or delayed (death, injuries, poisoning or hospitalization) to a number of people inside the installation and/or to persons outside the establishment, or
- ii) Significant damage to crops, plants or animals or significant contamination of land, water or air, or,
- iii) An emergency intervention outside the establishment (ex. evacuation of local population, stopping of local traffic) or,
- iv) Significant changes in the process operating conditions, such as stoppage or suspension of normal work in the concerned plant for a significant period, or
- v) Any combination of above effects

The definition is changed under the Manufacture, Storage and Import of Hazardous chemicals (Amendment) Rules 2000 as loss of life inside or outside the plant or ten injuries outside or on-site or off-site emergency or damages to equipment or adverse effects to environment due to toxic release, fire, explosion or spillage of hazardous chemical.

An Incident:

Undesired event giving rise to death, ill health, injury, damage or other loss.

An Emergency:

An emergency is an abnormal event, which could result in danger to personnel, property and environment. It could be due to fire, Explosion, Heavy spillage of hazardous liquid, toxic gas release etc.

A Major Emergency:

Is one that may affect several departments within it and/or may cause serious injuries, loss of life, and extensive damage to property or serious disruption outside the works? It will require the use of outside resources to handle it effectively.

Note: Emergency due to operating conditions, uncontrolled reaction, small fire, small gas leak, spill, failure of power, water, air, steam, cooling media, scrubbing media etc. and which can be locally handled by plant personnel alone (without outside help) is not considered a major emergency.

Mode of Emergency

Man Made	Natural Calamities	Extraneous
<ul style="list-style-type: none"> ● Heavy Toxic Leakage/ Spillage 	<ul style="list-style-type: none"> ● Flood 	<ul style="list-style-type: none"> ● Riots/Civil Disorder/Mob Attack
<ul style="list-style-type: none"> ● Fire 	<ul style="list-style-type: none"> ● Earthquake, 	<ul style="list-style-type: none"> ● Terrorism
<ul style="list-style-type: none"> ● Explosion 	<ul style="list-style-type: none"> ● Cyclone 	<ul style="list-style-type: none"> ● Sabotage
<ul style="list-style-type: none"> ● Failure of Critical Control system 	<ul style="list-style-type: none"> ● Outbreak of Disease 	<ul style="list-style-type: none"> ● Bomb Threat
<ul style="list-style-type: none"> ● Design deficiency 	<ul style="list-style-type: none"> ● Tsunami 	<ul style="list-style-type: none"> ● War/Hit by missiles
<ul style="list-style-type: none"> ● Unsafe acts 	<ul style="list-style-type: none"> ● Lightning 	<ul style="list-style-type: none"> ● Abduction
<ul style="list-style-type: none"> ● In-adequate maintenance 		<ul style="list-style-type: none"> ● Food Poisoning/Water Poisoning

Disaster

Is a catastrophic situation in which the day-to-day life patterns are, in many instances, suddenly disrupted and people are plunged into helplessness and suffering and as a result need protection, clothing, shelter, medical and social care other necessities of life, such as: Disasters resulting from natural phenomena like earthquakes, volcanic eruptions, storm surges, cyclones, tropical storms, floods, landslides, fierce fires and massive insect infestation. Also in this group, violent drought which will cause a creeping disaster leading to famine, disease and death must be included.

Second group includes disastrous events occasioned by man, or by man's impact on the environment, such as armed conflict, industrial accidents, factory fires, explosions and escape of toxic releases of chemical substances, river pollution, mining or other structural collapses, air, sea, rail and road transport accidents, aircraft crashed, chopper crashed, collisions of vehicles carrying inflammable liquids, oil spills at sea and dam failures.

Environment

Environment as defined u/s 2(a) of the Environment Protection Act includes water, air and land and the inter relationship which exists among and between water, air and land and human beings, other living creatures, plants, micro-organism and property.

Environment Pollutant

Environment pollutants defined by the same Act as any solid, liquid or gaseous substance present in such concentration as may be or tend to be injurious to the environment.

Hazard:

Source or situation with a potential for harm in terms of injury or ill health, damage to property, damage to the workplace environment or a combination of these.

Chemical Hazard:

Chemical Hazard is a hazard due to chemicals (including its storage, process, handling etc.) and it is realized by fire, explosion, toxicity, corrosion, radiation etc.

Risk:

Risk is the likelihood of an undesired event (i.e. accident, injury or death) occurring within a specified period or under specified circumstances. It may be either a frequency or a probability depending on the circumstances.

Individual Risk:

Individual risk is the frequency at which an individual may be expected to sustain a given level of harm from the realization of specific hazards.

Societal Risk:

Societal risk is a measure of the chances of a number of people being affected by a single event or set of events and is often presented as f/n curves (i.e. frequency v/s number of people affected).

On-Site Emergency:

The on-site emergency plan deals with measures to prevent and control emergencies within the factory and not affect the outside public or environment.

Off-Site Emergency:

If an accident takes place in a dairy / chemical installation and its effects are felt outside its premises, the situation thus created is called an off-site emergency.

Off-site Emergency Plan means – the off-site emergency plan prepared under rule 14 of the Manufacture, Storage and Import of Hazardous Chemicals Rules.

Classification of Emergency:-

Level – 1 (Minor Emergency):-

The emergency situation arising in one plant / area with no potential to cause human injury or moderate damage to plant & can be controlled by plant personnel without requirement of site emergency services.

Level 1 emergencies do not require partial or full evacuation of plants.

Any incident, potential or actual, which will not seriously affect the overall functional capacity of the institution. Examples: a minor one-room fire contained immediately, a minor laboratory spill confined to a small area, minor leakage of solvent or gases.

Type of emergency of Level -1:

Localized Plant Emergency

- Emergency which can be controlled by the respective plant/ area team only.
- ERT team from other plants not required. No evacuation required.
- Emergency will be communicated through the respective plant public address system.
- Examples (Minor spills, minor fires which are controlled locally by using fire extinguishers and are confined to small areas/ rooms, Small leaks not requiring ERT response or evacuation etc).

Communication:-

Communication only on Plant public address system walkie talkie, mobile phones and intercom.

Level – 2 (Major Emergency):-

The emergency situation arising in the plant / areas which has the potential to cause human injury or damage to the plant & cannot be controlled by plant and operations team help from other emergency responders from site or outside. Also the toxic gas leak and emergencies requiring full or partial evacuation shall be considered as major emergencies.

Type of emergency of Level -2:

Emergency which need involvement of site emergency response team, mutual aid group or external agencies. It may involve building or plant or site evacuation.

- Fire other than minor fire
- Toxic chemicals are required for full or partial evacuation of buildings.
- Emergency will be communicated by emergency siren and PA system.
- Examples (Fire scenarios, major chemical spill, gas leak, mass medical emergency etc).

Communication:-

- Fire – Wailing siren (20 second on 10 second off 4 times in series).
- Toxic gas release - Wailing siren (20 second on 6 times in series).

Level – 3 (Off-Site emergency):-

Incidents in plant facilities involving large-scale injury, death or damage-beyond resources of site emergency services. Involvement of a mutual aid group, local crisis group, fire brigade etc & threatening civilian population which warrants mobilizing the necessary resources available with the government to mitigate the emergency, is called **Off-site emergency**.

Such situations shall be controlled as per Off-site emergency plan prepared by district authorities.

Transport Emergency (Off site)

If any incident occurs outside the factory premises during the transportation of hazardous chemicals (inside/outside India), the after effects of it can spread in nearby areas resulting in adverse effects on the environment and/or nearby community, it is called Transport Emergency

Type of emergency of Level -3:

Emergencies which have an impact outside the plant premises are termed as off-site emergencies.

→ Examples (Toxic Gas leak, Explosion, Major fire affecting nearby industry or community).

Communication:-

→ Communication to local crisis groups and mutual aid groups by SMC through phone.

Note: Level-I and Level- II shall normally be grouped as onsite emergency and Level- III as off- site emergency.

ANNEXURE 18

Compliance of Risk Assessment & Disaster Management Plan

Sr. No.	CONDITIONS	COMPLIANCE
I	On-site Emergency Planning	Complied Onsite emergency plan is prepared as per DISH, Govt. of Gujarat guidelines & followed. Cover page and index of the on-site emergency plan is enclosed as Annexure 17
1	Preventive and predictive systems a. Protective systems b. Personal protective equipment	Complied a. Unit adheres to protective systems such as Safe Operating Procedure, Permit to work, Process Safety Interlocks, Training & Competency building, standard maintenance practices, HIRA/JSA, etc.. b. Unit ensures the use of Mandatory PPEs like Helmet safety Shoes, Safety goggles, face mask & Job specific PPEs like Cartridge gas mask, Breathing air, PVC Suit Etc.
2	Mock drill and simulation exercises	Complied Mock drills are being conducted as per the defined schedule considering the recommendations from Gujarat factory rules.
3	Mutual aid scheme	Complied The Mutual Aid Scheme is in place and operational & the same is enclosed herewith as Annexure-18A
4	Communication medical facilities	Complied. Well equipped OHC is functioning under the supervision of qualified Factory Medical Officers.
5	Reporting to external agencies	Complied Unit is reporting to DISH as per the requirement stipulated in Gujarat Factory Rules.
II	Off-site Emergency Planning	
1	Educating the people around	Complied Unit is participating in the Off site Emergency planning and drill to educate people. Coordination and communication as and when required is also ensured.
2	Mock drills	Complied Unit is participating in the mock drill conducted by District Authorities.

ANNEXURE 18

Compliance of Risk Assessment & Disaster Management Plan

3	Communication	Complied Unit ensures adequate communication to all applicable authorities & as and when required.
4	Transport	Complied Unit has an adequate and dedicated emergency transport facility.
5	Medical facilities	Complied, Unit has tied up with Hospitals to cater off-site medical emergencies.
6	Coordination	Complied Unit has formulated a Task force including experts from all disciplines to handle any off-site emergencies with better coordination.
7	Evacuation	Complied Evacuation will be ensured as per the off-site emergency plan.
8	Mutual aid scheme	Complied The Mutual Aid Scheme is in place and operational & the same is enclosed herewith as Annexure-18A

AGREEMENT FOR MUTUAL AID

This agreement is made at Jhagadia industrial estate, Jhagadia, Dist.: Bharuch on 1st September 2018 between the following companies.

Sr No	Name of the company	Address for communication
1	UPL Ltd.(Unit 5)	UPL Ltd Plot no 746 / 750 ,GIDC , Jhagadia Dist. :Bharuch ,State: Gujarat
2	DCM SHRIRAM Ltd. (Unit: Shriram Alkali & Chemicals)	DCM SHRIRAM LTD. (unit: Shriram Alkali & Chemicals) Plot no: 749, GIDC Industrial Estate, Jhagadia, Dist Bharuch State: Gujarat
3	LAKSHESS INDIA PVT. LTD.	PLOT NO. 748/2A, 3, 4A, 4B GIDC MEGA ESTATE JHAGADIA-393110 DIST BHARUCH
4	Vandhaman Azrylics Ltd.,	755, GIDC, Jhagadia Bharuch - 393110 asunbhasadi@vandhaman.com
5	SAINT GOBAIN INDIA PVT LTD	PLOT No 36, GIAC JHAGADIA BHARUCH - 393110
7	EVONIK SPECIALTY SILICA INDIA PVT. LTD	PLOT No-754, GIDC JHAGADIA DIST - BHARUCH STATE - GUJARAT
8	KOHLER INDIA PVT. LTD.	PLOT NO. 828, GIDC MEGA JHAGADIA-393110, DIST BHARUCH
9	Pepsi Co India Holding prf Ltd., Jhagadia.	plot NO. 97, GIDC Jhagadia, Dist. Bharuch state - Gujarat
10	AARTI INDUSTRIES LTD	PLOT No. 758-1/2/3 & 758/2A- 3A-13, 4A-13, 5A-13, 67 & 77 GIDC MEGA ESTATE JHAGADIA-393110, DIST BHARUCH

MUTUAL AID AGREEMENTS

AS PER GUIDELINES OF FACTORIES ACT AND DIRECTOR OF INDUSTRIAL SAFETY AND HEALTH, WE SIGNATORIES OF THIS LETTER AGREE TO EXTEND MUTUAL HELP TO EACH OTHER AMONG THE GROUP AT THE TIME OF EMERGENCY ARISING DUE TO FIRE, GAS LEAK, EXPLOSION AND NATURAL CALAMITIES.

WE AGREE TO PROVIDE EQUIPMENT AND MANPOWER FOR CONTROLLING FIRE AND GAS LEAK AND ALSO TO SPARE RESOURCES FOR FIRST AID, RESCUE TRANSPORT, EVACUATION, COMMUNICATION AND SHELTER. THE COST OF CONSUMABLE WILL BE PAID BY AID DEMANDING INDUSTRY AS PER ACTUAL.

WE ALSO AGREE TO REVIEW AND UPDATE INFORMATION RELATED TO EMERGENCY PREPAREDNESS IN ANNEXURE -A ON A QUATERLY BASIS.

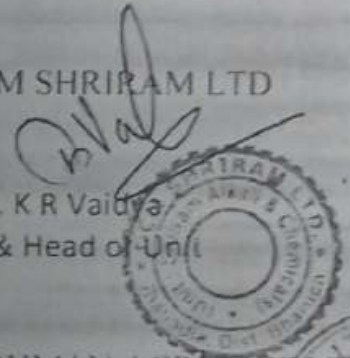
FOR UPL-5

Mr. Subhat Kumar Jhagadia
Unit Head



FOR DCM SHRIRAM LTD

Mr. K R Vaidya
Sr. VP & Head of Unit



FOR LANXESS INDIA P. LTD

(D.G. Dattaprasad Talekar
FOR SAINT GOBIN
S SELVAKUMAR)
PLANT HEAD.



FOR VARDHMAN ACRYLICS LTD

Mr. Arun Bhandari
Unit Head



FOR EVONIK SPECIALTY SILICA INDIA PVT. LTD.

Mr. Pramod Lokhande
FOR AARTI INDUSTRIES LTD



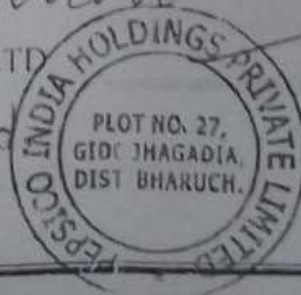
FOR KOHLER INDIA P. LTD

Mr. Vipinkumar



FOR PEPSICO HOLDING INDIA PVT. LTD

Mr. C. S. Guruprasad
Unit Head



(Sandeep Chakrawar)



VISION POWER FACTx

POWER QUALITY – ENERGY AUDITS – SAFETY AUDITS – POWER SYSTEM STUDIES

AREA CLASSIFICATION REPORT

Client: Aarti Industries

Location: Jhgadia – Gujarat Plant

Unit 1 & Unit 2



VISION POWER FACTx

POWER QUALITY – ENERGY AUDITS – SAFETY AUDITS – POWER SYSTEM STUDIES

PROLOGUE

Area Classification Review or Hazardous Area Classification Review audit was conducted at Aarti Industries Ltd., Jhagadia GIDC in Gujarat. Aarti Industries Ltd. has two Units (Unit 1 & Unit 2) and both the units were covered in the Audit.

Area Classification Review involves in principle, a survey of electrical apparatus operating in plant where the process involves use of chemicals in liquid, gaseous, or powder form and reactions are brought about on large scale. The energy used in the process is largely deployed through apparatus/machinery using electrical power through electric motors and other electrical apparatus. Also, power electronic and automation devices operating under the environment come under the scope of review.

This report includes begins with basics of Area Classification, approach and methodology taken during Area classification Review, and finally area wise observations and finally recommendations for enhancing safety measures.

Audit was completed by the team members mentioned below in three visits to the plant.

Pradip Thakur

Prashant Samant

Tushar Jagdale

Dipti Dhakan

Rakesh Chouhan

Prasahnt Savant

It is hoped that the contents of the reports, suggestions and findings will be appreciated.

The filed team thanks all concerned engineers and managers for extending best of their cooperation and also sharing necessary information to the field team during the area classification review at the site.

For Vision Power Factx

Authorized Signatory



VISION POWER FACTx

POWER QUALITY – ENERGY AUDITS – SAFETY AUDITS – POWER SYSTEM STUDIES

1.0 BASICS OF AREA CLASSIFICATION

EXPLOSION DUE TO FLAMMABLE GASES & VAPOURS:

The chemicals being used enter the surrounding (in the form of vapours, mist or gas) OR may be present in the powder form. If inflammable, these gases, vapours, mist or suspended particles may reach concentration levels good enough to cause explosion if the operating electrical apparatus lets out spark. Also, should the surface temperature of electrical apparatus reach the point where given concentration above LEL (Lower Explosive Limit) of flammable gases, vapours reach Auto Ignition point there can be an explosion.

EXPLOSION DUE TO FLAMMABLE DUST:

Five elements are necessary to initiate a dust explosion, often referred to as the “Dust Explosion Pentagon”.

1. Combustible dust (fuel);
2. Ignition source (heat); and,
3. Oxygen in air (oxidizer).

An additional two elements must be present for a combustible dust explosion:

4. Dispersion of dust particles in sufficient quantity and concentration; and,
5. Confinement of the dust cloud.

Area Classification as per IEC has Zone 0, Zone 1 & Zone 2 for protection against flammable volatile liquids, Mist, Gases and Vapours.

Area Classification as per IEC has Zone 20, Zone 21 & Zone 22 for protection against flammable dust particles.

The zone classification is based on the likelihood and the duration of an explosive atmosphere.

It is all about ensuring that electrical and power electronic equipment or apparatus or system design as well as installation meets with the criteria of Zone classifications.

Zone 0:

Is where, flammable substances in the form of gas, vapour or mist can remain present continuously or frequently. Such areas for example could be: Most often closed process vessels, closed storage tanks and closed containers IP 15 stipulates presence of flammable gases, vapours or mists for more than 1000 hours per Annum.

Zone 1:

Is where, flammable substances in the form of gas, vapour or mist are likely to occur in normal operation occasionally. Gas generator rooms inadequately ventilated pump rooms for flammable gases or for



VISION POWER FACTx

POWER QUALITY – ENERGY AUDITS – SAFETY AUDITS – POWER SYSTEM STUDIES

volatile flammable liquids IP 15 stipulates between presence of flammable gases, vapours or mists between 10 hours to 1000 hours per Annum.

Zone 2:

Is where explosive atmosphere consisting of air mixed with flammable substances in the form of gas, vapour or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

For an area to qualify as Zone 2 the following are the requirements.

1. The area is so well ventilated that if an abnormal conditions arises, ignitable concentrations of the gas or vapour are rapidly dispersed.
2. And complete segregation from Zone 1 locations is ensured.

IP 15 stipulates: flammable vapours or gases of less than 10 hours per annum

GAS GROUP & TEMPERATURE CLASS:

When performing Hazardous area zoning and compliances it necessary to look into **Two More** aspects.

1. Gas Group of flammable Atmosphere
2. Temperature Class for flammable Atmosphere

Explosion protected apparatus suitable for a Zone 1 area such as Flameproof (Ex d) apparatus is automatically suitable for all Zone 1 locations. This is misconception. The gas group of the environment also needs to be considered.

- a) **Group I** : Electrical equipment for mines susceptible to methane, &
- b) **Group II** : Electrical equipment for all places with an explosive gas atmosphere, other than mines susceptible to methane.

Group II is then further divided into subgroups II A, II B or II C.

If any equipment is certified for use in Gas Group IIC, it can be used for Gas Groups II B and II A.

If any equipment is certified for use in Gas Group IIB, it can be used for Gas Groups II A.

If any equipment is certified for use in Gas Group IIA, it cannot be used for Gas Groups II B and II C.

FORM NO. 33
(Prescribed under Rule 68-T and 102)

Certificate of Fitness of employment in hazardous process and operations.

(TO BE ISSUED BY FACTORY MEDICAL OFFICER)

- | | | | |
|----|--|---|--|
| 1. | Serial number in the register of adult workers | : | 57005414 |
| 2. | Name of the person examined | : | VIPULKUMAR PRAVINSINH GHARIYA |
| 3. | Father's Name | : | PRAVINSINH GEMALSINH GHARIYA |
| 4. | Sex | : | MALE |
| 5. | Residence | : | AT PO: KUNVARADA, TA: MANGROL, DI: SURAT |
| 6. | Date of birth, if available | : | 07/08/1986 |
| 7. | Name & address of the factory | : | AARTI INDUSTRIES LIMITED, JHAGADIA |
| 8. | The worker is employed/proposed | : | |
| | (a) Hazardous process | : | |
| | (b) Dangerous operation | : | |

I certify that I have personally examined the above named person whose identification marks are MALE NEAR THE NOSE.....and who is desirous of being employed in above mentioned process/operation and that his/her, age, as can be ascertained from my examination, is 37 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 reasonHe/She is referred for further examination to the Certifying Surgeon.

The serial number of previous certificate is

Nipat
Signature or left hand thumb impression of the person examined:

Signature of the Factory Medical Officer

Stamp of factory Medical Officer with Name of the Factory :

04/03/24
DR. P. S. SHARDA
MBBS, CH
G-54854

I certify that I examined the person mentioned above on (date of Examination)	I extend this certificate unfit (if certificate is not extended, the period for which the worker is considered unfit for work is to be mentioned)	Signs and symptoms observed During examination	Signature of the Factory medical Officer with date.
04/03/2024			 <i>04/03/24</i> DR. P. S. SHARDA MBBS, CH G-54854

Notes :

1. If declared unfit, reference should be made immediately to the Certifying Surgeon.
2. Certifying Surgeon should communicate his findings to the occupier with 30 days of the receipt of this reference.]

Annexure-21

CSR/CER Activities from Oct'23 to Mar'24

Sr No.	Plant Location	Name of Associated NGO	Nature of Work	Expended Amount (INR)	Beneficiary Students / Peoples	Impact on People's Life
1	AIL Jhagadia	Dhara Electrical Service	303 Nos Solar lights installation in Surrounding 06 Villages of Jhagadia GIDC	7377950	10000	Raising Standard of Living
2	AIL Jhagadia	My Livable Bharuch & Ankleshwar	CER Initiative by Collector Bharuch work like Swachh Bharuch, Bharuch Thaila Bank, Happy Street, Bharuch Marathon etc....	2130000	677000	Swachh Suraksha (Waste to Wealth)
3	AIL Jhagadia	R.K HIV Aids Research & Care Centres	Donation Towards Mega Health Mela @ Tribal Area	1500000	50000	Free Treatment for Malnutrition, TB & Anemia
4	AIL Jhagadia	Viraj Infotech	5 nos PC's & 5 nos UPS installation @ SP Office, Bharuch	230100	20	Development of IT Infrastructure @ SP Office, Bharuch
5	AIL Jhagadia	Kumarpal Gandhi Blood Bank	Blood Donation Camp	344383	336	Nobal Cause
6	AIL Jhagadia	Farmbridge	Farmer's Awareness & Training	2400000	500 Farmers per Month 6000 Farmers per year for a period of 3 years	1. Increase in Farmer's Income 2. Decrease in Input Cost 3. Climate Change Adoption in Agriculture 4. Soil Health Improvement
7	AIL Jhagadia	Gram Vikas Trust	Vidhya Sathi Project at 69 Govt. schools of Bharuch district Total 78 teachers & 3 project co-ordinators	3400000		To enhance double student level in Education to Govt. Schools
Total				17382433		



**TEST REPORT
AMBIENT NOISE LEVEL MONITORING REPORT**

ULR - TC77532400003846F			
Test Report No.:	URA/24/03/AIL-J/AN-001	Date Of Report:	03/04/2024
Name & Add. of Industries	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Sampling Method	IS : 9989 : 1981		

➤ **Details of Instrument Used for Monitoring.**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	02/02/2024	01/02/2025

Date and Time of Monitoring : 11 & 13/02/2024


Result

DISCIPLINE – CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION			
Sr. No.	Location	Noise Level dB(A)		Permissible Limit CPCB	
		Day Time (6:00 – 22:00)	Night Time (22:00 – 6:00)	Day Time	Night Time
1.	Near VIP Gate	64.0	61.0	75 dB (A)	70 dB (A)
2.	Near Material Gate	65.7	58.9	75 dB (A)	70 dB (A)
3.	Near CN1 2 3 Nox Scrubber Area	70.4	65.5	75 dB (A)	70 dB (A)
4.	Near U/G Benzene Storage Area	67.1	61.8	75 dB (A)	70 dB (A)
5.	Near Gate No 2	71.0	65.7	75 dB (A)	70 dB (A)
6.	Near 30 TPH Boiler Area	68.3	64.5	75 dB (A)	70 dB (A)
7.	Near Acid Tank Farm Loading/Unloading Area	70.6	65.3	75 dB (A)	70 dB (A)
8.	150 KLD SBT Area	66.5	53.5	75 dB (A)	70 dB (A)
9.	Near NT Tank Farm	58.4	59.3	75 dB (A)	70 dB (A)
10.	Near MBR STP	68.3	63.0	75 dB (A)	70 dB (A)

Remarks:
Opinion & Interpretation (if required):

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jaivik S. Tandel
(Manager - Operations)



TEST REPORT
AMBIENT NOISE LEVEL MONITORING REPORT

ULR - TC77532400003846F			
Test Report No.:	URA/24/03/AIL-J/AN-001	Date Of Report:	03/04/2024
Name & Add. of Industries	M/s. Aarti Industries Limited. Plot No. 758/1-2-3, GIDC Estate, Jhagadia, Taluka - Jhagadia Dist. Bharuch (393110), Gujarat, India.		
Sampling Method	IS : 9989 : 1981		

➤ **Details of Instrument Used for Monitoring.**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	02/02/2024	01/02/2025

Date and Time of Monitoring : 11 & 13/02/2024

Result

DISCIPLINE – CHEMICAL TESTING		NAME OF GROUP – ATMOSPHERIC POLLUTION			
Sr. No.	Location	Noise Level dB(A)		Permissible Limit CPCB	
		Day Time (6:00 – 22:00)	Night Time (22:00 – 6:00)	Day Time	Night Time
11.	Near Ash Silo (CPP Plant)	54.1	67.4	75 dB (A)	70 dB (A)
12.	Near ETP Expansion	59.7	56.0	75 dB (A)	70 dB (A)
13.	Near Utility DM Plant	72.9	68.8	75 dB (A)	70 dB (A)
14.	Near NEW ETP	73.6	69.1	75 dB (A)	70 dB (A)
15.	Near Utility RO Section	65.1	61.7	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

Remarks:
Opinion & Interpretation (if required):

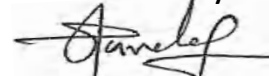
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



No. DyCEI/VDR/EAR/ 570 /2022-23

(0265) 2436270

Dtd: 16/3/2023

LETTER OF ACCEPTANCE OF ENERGY AUDIT REPORT

The Following Energy Audit report has been submitted to this office.

Name & Address of the Consumer : Aarti Industries Limited, plot. No.758/1,2,& 3, 576 /2& 3(A &B) 756/4(A&B)756/5(A&B)756/6, 756/7,756/8,756/9,778,779,GIDC Jhagadia, Dist. Bharuch -393110

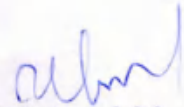
Name & Address of the Auditor : Devaki Energy Consultancy PVT.LTD ,405 " IVORY TERRACE "R.C. Datt Road Vadodara 390007

Consumer No. : **39652**

Date of Submission : 13-12-2022

Contract Demand : 12500 KVA

This is to informed that the above audit report has been found as per the format prescribed by this department and hence the same has been accepted subject to condition that the Energy Auditor shall submit two follow up reports, each at an interval of six months, within one year from the date of submission of this report to this office. After submission of two follow up reports, required certificate will be issued.


(V K Purohit)
Dy.-Chief Electrical Inspector,
South Zone, Vadodara

To,

- (1) Aarti Industries Limited, plot. No 758/1,2,& 3, 576 /2& 3(A &B) 756/4(A&B)756/5(A&B)756/6,756/7, 756/8,756/9,778,779,GIDC Jhagadia, Dist. Bharuch -393110
- (2) Devaki Energy Consultancy PVT.LTD ,405 " IVORY TERRACE "R.C. Datt Road Vadodara 390007
- (3) Office Copy

ENERGY AUDIT REPORT

**AARTI INDUSTRIES LIMITED,
Jhagadia, Gujarat**

Consumer no. 39652

Conducted by



DEVKI ENERGY CONSULTANCY PVT. LTD.
VADODARA, INDIA
www.devkienergy.com

2022

ACKNOWLEDGEMENTS

We thank the management of Aarti Industries, Jhagadia for entrusting the Energy Audit study to us. Our special thanks are due to the following persons for the co-operation extended to the energy audit team during the Energy Audit Study.

Mr. Ronak Kabra
Mr. Shailesh Aghera
Mr. Manish Pavasiya
Mr. Chatur Sambhoji
Mr. Vaseem Gazi
Mr. Smit Chauhan
Mr. Dipal Desai
Mr. Sankha Choudhury
Mr. Manjay Sharma
Mr. S S Devkar
Mr. Anudeep Thorat
Mr. Chetan Lad
Mr. Mohsin Dange
Mr. Rahul Bansal
Mr. Prashant Zala
Mr. Aamir Rangrej
Mr. Ankit Tiwari
Mr. Prem Mohite
Mr. Yogesh Goti
Mr. Kuldeep Parmar
Mr. Archan Patel
Mr. Chintan Jethva
Mr. Vaibhav Patel
Mr. Randhir Rana
Mr. Vinod Patel
Mr. Vipul Modi

We also thank all members in Production and Maintenance departments for assisting us in measurements and data collection.

Energy Audit Team

Mr. R. Paraman (Accredited Energy Auditor)
Ms. Ashwini Malvaniya
Mr. Prashant Jha
Mr. Kishan Parmar
Mr. Vijay Singh Patel
Mr. Vrittansh Srivastava




Government of Gujarat
Forests & Environment Department

GUJARAT CLEANER PRODUCTION AWARD 2014-15


This is to certify that

M/s. Marti Industries Limited (Unit-3), Thagadia

*is conferred upon the Gujarat Cleaner Production Award in Large Scale Sector
for outstanding achievement in implementing the Cleaner Production Practices.*


Smt. D. Tharva, IAS
Chairperson

Gujarat Cleaner Production Centre


Arvind Agarwal, IAS
Additional Chief Secretary
Forests & Environment Department, GoG





GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS

Registrar of Companies, Ahmedabad
RoC Bhavan , Opp Rupal Park Society , Behind Ankur Bus Stop , Naranpura
Ahmedabad - 380013

Corporate Identity Number: L24110GJ1984PLC007301

(SECTION 66(5) OF THE COMPANIES ACT, 2013)

CERTIFICATE OF REGISTRATION OF ORDER CONFIRMING REDUCTION OF CAPITAL

M/s AARTI INDUSTRIES LTD having by special resolution passed on 13/02/2015 reduced its capital, and such reduction having been confirmed by an order dated 31/07/2015 of the Hon'ble HIGH COURT OF GUJARAT, HIGH COURT OF GUJARAT AT AHMEDABAD passed in Petition number 116 of 2015. I hereby certify that a copy of the said order and Minutes approved by the Hon'ble High Court of HIGH COURT OF GUJARAT AT AHMEDABAD showing the particulars of the capital and shares of the company as altered by the said order have this day been registered.
Given under my hand at Ahmedabad this Eighteenth day of September Two Thousand Fifteen.

Signature
valid

Digitally signed
by Registrar of
Companies
Date: 2015.09.18
11:49:50
GMT+05:30

Rathod Kamleshkumar Gangjibhai
Assistant Registrar of Companies
Registrar of Companies
Ahmedabad

Mailing Address as per record available in Registrar of Companies office:
AARTI INDUSTRIES LTD
PLOT NO 801/23 GIDC ESTATEPHASE III, VAPI - 396195,
Gujarat, INDIA



OFFICE OF THE REGISTRAR OF COMPANIES, GUJARAT.

FORM - II

[See Regulation 20]

Memorandum Acknowledging Receipt of Documents

Co. No. 04-7301

The Registrar of companies acknowledges the receipt of the
undermentioned document relating to AARTI INDUSTRIES

LIMITED.

Private Limited / Limited.

Description of Document :- Form No 23 alongwith special Resolution passed
on 28/8/2002 U/S 17 of the Companies Act, 1956
for alteration in ~~name~~/other clause of the
Memorandum of Association is taken on this office
record on 26/9/2002.



(Signature)
(U.S.PATCLE)

ASSTT. REGISTRAR OF COMPANIES,

GUJARAT

Date 26/9/2002.

प्रारूप II
FORM II

[विनियम 20 देखिए]
[See Regulation 20]

दस्तावेजों की प्राप्ति अभिस्वीकृत करने वाला ज्ञापन
Memorandum acknowledging receipt of documents



संख्या

No. 04-7301

कम्पनियों के रजिस्ट्रार कार्यालय
OFFICE OF THE REGISTRAR OF COMPANIES

कम्पनियों का रजिस्ट्रार

..... परिसीमित से सम्बन्धित निम्नलिखित दस्तावेज की प्राप्ति अभिस्वीकार करता है।

The Registrar of companies acknowledges the receipt of the undermentioned document relating to.....

M/S. ~~.....~~ AARTE INDUSTRIES LIMITED ~~.....~~

दस्तावेज का वर्णन: Form No. 23, alongwith Special Resolution passed

Description of document

स्टेशन: 16.6.2000, U/s. 17 of the Companies Act

Station: 1956, for alteration in main object clause of

सारांश: Memorandum of Association of the company is taken on

Date: record by this office on 27.6.2000.

जें० एस० सी-2.

J. S. C-2.

Dt. 27-6-2000

ASSTT.

कम्पनियों का रजिस्ट्रार
REGISTRAR OF COMPANIES

प्रभासमटेक-75 सिविल/88-89-भासमटेक(सी-124)-24-8-89-5,000.

महापेट-75 CIVIL/88-89-DAPTC-(C-124)-24-8-89-5,000.

gujarat

प्राकृप II
FORM II

[विनियम 20 देखिए]
[See Regulation 20]

दस्तावेजों को प्राप्त अभिस्वीकृत करने वाला प्रापन
Memorandum acknowledging receipt of documents



04-7301
संख्या
No.

कम्पनियों के रजिस्ट्रार का कार्यालय
OFFICE OF THE REGISTRAR OF COMPANIES

कम्पनियों का रजिस्ट्रार

..... परिष्ठीकृत से सम्बन्धित निम्नलिखित दस्तावेज को प्राप्त अभिस्वीकार करता है।

The Registrar of companies acknowledges the receipt of the undermentioned document relating to.....
..... **AARTI INDUSTRIES LIMITED**..... Limited.

दस्तावेज का वर्णन।

Description of document.

स्थान

Station

तारीख

Date

12/02/98

जे० एल० सी-2.

. S. C-2.

भासमुटेक-75 सिविस/88-89-भासमुटेक(सी-124)-24-8-89-5,000.

~~मदाप्ट-75 टावा/88-89-टाप्ट-(ट-124)-24-8-89-5,000.~~

The Form No.23 alongwith special Resolution
passed u/s.17 of the Companies Act,1956 on
26/08/97 has been taken on record on 12/2/98.

(O. N. PANDE)

Asstt. REGISTRAR OF COMPANIES



S. B. LUBRICANTS [67090]
(Hazardous Waste Manifest)

Manifest No:
2397561
02/02/2024

Copy 6

To be forwarded by To be returned by the Operator of the facility to the Occupier after treatment and disposal of hazardous material/waste.

Sender's Details					
Sender Name	Aarti Industries Ltd. [14855]				
Address	, Taluka :JHA Distict:ANK Pin no:393110				
Contact Details	8758496131 krishan.maurya@aarti-industries.com	GPS Coordinates	Lat :21.65688408759508 Long :73.12603364273612		
Receiver's Details					
State	Gujarat	Type of Facility	Actual user (within state)		
Facility Details	S. B. LUBRICANTS [67090]				
Contact Details	9825441327 sbilubricants123@gmail.com	GPS Coordinates	Lat :21.455432685840965 Long:72.89754395182648		
Address	Survey No. 90, Plot No. 1 to 6,Panjroli, Birla Road, Tal. Hansot Taluka :HAN Distict:ANK Pin no:394120				
Waste Details					
Waste Details	I~5~5.1~Used or Spent Oil				
Waste Intended for	Recycling	Total Qty	7.180MT	Consistency	liquid
Transporter Details					
Name	Self	Contact Details	9825441327 abcorganicschemicals@yahoo.com		
Address	plot no.- 605, GIDC Estate,Panoll District :Ankleshwar Taluka :Ankleshwar				
Vehicle Details					
Vehicle no	GJ05AZ0367 (IMEI No :867556043879017)	GPS Enabled	Yes	Type of Vehicle	Truck
Driver name	Rameshwer yadav	Driver Contact No	9276104115		
Waste Transportation Details					
Vehicle Depart.	02/02/2024 6:00PM	Number of Drums	35	Loose Waste	7.180
Remarks	Used Oil	No of bags	0		
Sender's Declaration :					
1. I hereby declare that contents of the consignment are fully and accurate described above by proper shipping name and are categorized , packed, marked , and labeled , and are all in all respects in proper condition for transport by road according to applicable national government regulations.					
2. I hereby declare that we have obtained membership of common facility / carried out agreement with actual user for disposal/ actual use of hazardous waste.					
<p>AARTI INDUSTRIES LTD. Plot No. 758/1, 2, 3, - GIDC, Dist. Bharuch, Gujarat - 393110.</p>					
Name and stamp of sender:		Date:	02/02/2024		Signature:
Transporter's Acknowledgement of Receipt of waste					
Stamp: S. B. LUBRICANTS Survey No 90, Plot No.1 To 6, Panjroli, Birla		Date:			Signature:
Receiver's Certification of Receipt of Hazardous waste					

In Principal Approval Details :Accepted - 02/02/2024 5:52PM - Remarks :used oil

S. B. LUBRICANTS
Stamp: Survey No.90, Plot No. 1 To 6,
Panjroli, Birla Road, Tal. Hansot,
Dist. Bharuch, (Guj) 394120

Date: 02-2-2024

Signature:

By scanning QR code, copy of transporter will be display. (All copy has same information)

