

12th November 2024
AIL/JH/2024/ENV/118

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

Subject : Half-yearly compliance report to the conditions of Environment Clearance for the period of April 2024 to September 2024.

Reference : SEIAA/GUJ/EC/5(f)/1470/2022, dated: 30/05/2022

Respected Sir,

With reference to the above mentioned subject, the unit is enclosing herewith the Environmental Clearance compliance report for the period of **April 2024 to September 2024** for the above mentioned reference of Environment Clearance obtained for the "Production of Synthetic Organic Chemicals" at Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC Notified Industrial Estate Jhagadia, District: Bharuch, Gujarat.

The compliance report is supported with required documents.

Thanking you,

Yours faithfully,

For, Aarti Industries Limited (Unit-II)


Authorized Signatory



Encl : EC Compliance Report along with Annexures

Copy to:

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

www.aarti-industries.com | CIN : L24110GJ1984PLC007301

Regd. Office : Plot No. 801, 801/23, IIIrd Phase, GIDC Vapi - 396 195, Dist. Valsad. INDIA. T : 0260-2400366.

Factory : Plot No. 756/2A & B, 756/3A & B, 756/4A & B, 756/5A & B, 756/6, 756/7, 779 + 778 + 756/8 & 9, Survey No. 122, GIDC Estate, Jhagadia, Taluka. Jhagadia, Dist. Bharuch, Gujarat - 393110. INDIA.

Phone No. : 9537011611, 9537011711, 9537011811

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

EC No.: SEIAA/GUJ/EC/5(f)/1470/2022, dated: 30/05/2022

Half-Yearly Environmental Clearance Compliance Report

April 2024 to September 2024



Aarti Industries Limited (Unit-II)

Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7,
756/8+9, 778 & 779

GIDC Industrial Estate, Jhagadia 393110

Dist: Bharuch, Gujarat

Environment Compliance Report of
EC File No. SEIAA/GUJ/EC/5(f)/1470/2022
Dated 30/05/2022

EC Compliance Report for period April-2024 to September-2024
File No: SEIAA/GUJ/EC/5(f)/1470/2022, Date of issue:- 30/05/2022

Sr. No.	Name of the Product	CAS No.	Capacity in MT/Annum			Compliance																
			Unit-II (Existing)	Unit-III (Existing)	After amendment & transfer on Unit II	Production																
UNIT-II PRODUCT LIST																						
1	Hydrogen Gas	1333-74-0	3000 Nm ³ /Hr	0	3000 Nm ³ /Hr	<div>Complied. Production quantity is under permitted capacity.</div> <table><tr><th>Month</th><th>Production (Nm³/Hr)</th></tr><tr><td>Apr'24</td><td>0.000</td></tr><tr><td>May'24</td><td>0.000</td></tr><tr><td>Jun'24</td><td>0.000</td></tr><tr><td>Jul'24</td><td>0.000</td></tr><tr><td>Aug'24</td><td>0.000</td></tr><tr><td>Sep'24</td><td>0.000</td></tr></table>	Month	Production (Nm ³ /Hr)	Apr'24	0.000	May'24	0.000	Jun'24	0.000	Jul'24	0.000	Aug'24	0.000	Sep'24	0.000		
Month	Production (Nm ³ /Hr)																					
Apr'24	0.000																					
May'24	0.000																					
Jun'24	0.000																					
Jul'24	0.000																					
Aug'24	0.000																					
Sep'24	0.000																					
2	Purification of O/P/M Phenylene Di Amine	-	18000	0	18000	<div>Complied. Production quantity is under permitted capacity.</div> <table><tr><th>Month</th><th>Production, MT</th></tr><tr><td>Apr'24</td><td>28.400</td></tr><tr><td>May'24</td><td>24.300</td></tr><tr><td>Jun'24</td><td>34.450</td></tr><tr><td>Jul'24</td><td>44.250</td></tr><tr><td>Aug'24</td><td>61.000</td></tr><tr><td>Sep'24</td><td>12.000</td></tr><tr><td>Total</td><td>204.400</td></tr></table>	Month	Production, MT	Apr'24	28.400	May'24	24.300	Jun'24	34.450	Jul'24	44.250	Aug'24	61.000	Sep'24	12.000	Total	204.400
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Total	204.400																					
3	Calcium Chloride (Solid)	10043-52-4	120000	0	120000	<div>Complied. Production quantity is under permitted capacity.</div> <table><tr><th>Month</th><th>Production, MT</th></tr><tr><td>Apr'24</td><td>2450.000</td></tr><tr><td>May'24</td><td>3138.000</td></tr><tr><td>Jun'24</td><td>2925.000</td></tr><tr><td>Jul'24</td><td>2106.000</td></tr></table>	Month	Production, MT	Apr'24	2450.000	May'24	3138.000	Jun'24	2925.000	Jul'24	2106.000						
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Aug'24	2799.000																					
Sep'24	2499.000																					
Total	15917.000																					
I. A	Group IA-Chlorination Products and Its Derivatives: 90000 MT/Annum																					
1	Mono Chloro Benzene (MCB) Either/OR	108-90-7	90000	0	90000	<div>Complied.</div> <div>Production quantity is under permitted capacity.</div> <table><tr><td>Month</td><td>Production, MT</td></tr><tr><td>Apr'24</td><td>3413.462</td></tr><tr><td>May'24</td><td>5198.707</td></tr><tr><td>Jun'24</td><td>4994.470</td></tr><tr><td>Jul'24</td><td>3634.093</td></tr><tr><td>Aug'24</td><td>5312.967</td></tr><tr><td>Sep'24</td><td>4469.891</td></tr><tr><td>Total</td><td>27023.590</td></tr></table>	Month	Production, MT	Apr'24	3413.462	May'24	5198.707	Jun'24	4994.470	Jul'24	3634.093	Aug'24	5312.967	Sep'24	4469.891	Total	27023.590
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Sep'24	4469.891																					
Total	27023.590																					
2	Ortho Di Chloro Benzene (ODCB)/ Para Di Chloro Benzene (PDCB)/ Meta Di Chloro Benzene (MDCB) Either/OR	95-50-1 /106-46 7/541-73-1																				
3	123/124 Tri Chloro Benzene (TCB) Either/OR	87-61-6/ 120-82-1																				
4	Ortho chloro toluene (OCT)/ Para chloro toluene (PCT) Either/OR	95-49-8 / 106-43-4																				
5	2- Chloro 4-Nitro Toluene Either/OR	121-86-8																				
6	6-Chloro 2 -Nitro toluene / 4-Chloro 2-Nitro Toluene Either/OR	83-42-1/ 89-59-8																				
7	Crude of All above Group I. A (Sr. No.1-6 Chlorination products)	--																				
I. B	Group IB-Chlorination Products and Its Derivatives: 7200 MT/Annum																					
1	2,4,6 Tri Chloro Aniline (TCAN) Either/OR	634-93-5	7200	0	7200	<div>Complied.</div> <div>Production quantity is under permitted capacity.</div> <table><tr><td>Month</td><td>Production, MT</td></tr><tr><td>Apr'24</td><td>18.750</td></tr><tr><td>May'24</td><td>31.500</td></tr><tr><td>Jun'24</td><td>25.200</td></tr><tr><td>Jul'24</td><td>43.350</td></tr><tr><td>Aug'24</td><td>55.500</td></tr><tr><td>Sep'24</td><td>45.651</td></tr><tr><td>Total</td><td>219.951</td></tr></table> <div>Presently the unit is having partial CCA. The unit has applied for CCA Amendment inward no. 276574 dated 15.03.2023.</div>	Month	Production, MT	Apr'24	18.750	May'24	31.500	Jun'24	25.200	Jul'24	43.350	Aug'24	55.500	Sep'24	45.651	Total	219.951
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Jun'24	25.200																					
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Aug'24	55.500																					
Sep'24	45.651																					
Total	219.951																					
2	2,6 Di Chloro Para Nitro Aniline (2,6 DCPNA) Either/OR	99-30-9																				
3	2,4 Di Chloro Ortho Nitro Aniline (2,4 DCONA) Either/OR	2683-43-4																				
4	2 4 Di Chloro Aniline Either/OR	554-00-7																				
5	Crude of All above Group I. B (Sr. No. 1-4 Chlorination products)	--																				
II. A	Group IIA- Hydrogenated Products and Its Derivatives: 60000 MT/Annum																					
1	Ortho Toluidine/ Para Toluidine/ MetaToluidine Either/OR	95-53-4/ 106-49-0/ 108-44-1	60000	0	60000	<div>Complied.</div> <div>Production quantity is under permitted capacity.</div>																
2	Meta Chloro Aniline / Ortho	108-42-9/																				

	Chloro Aniline / Para Chloro Aniline Either/OR	95-51-2 / 106-47-8				<table><tr><th>Month</th><th>Production, MT</th></tr><tr><td>Apr'24</td><td>704.381</td></tr><tr><td>May'24</td><td>1249.608</td></tr><tr><td>Jun'24</td><td>1175.814</td></tr><tr><td>Jul'24</td><td>1150.919</td></tr><tr><td>Aug'24</td><td>911.693</td></tr><tr><td>Sep'24</td><td>860.189</td></tr><tr><td>Total</td><td>6052.604</td></tr></table>	Month	Production, MT	Apr'24	704.381	May'24	1249.608	Jun'24	1175.814	Jul'24	1150.919	Aug'24	911.693	Sep'24	860.189	Total	6052.604
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Total	6052.604																					
3	3,4 Di Chloro Aniline / 2,3 Di Chloro Aniline / 2,5 Di Chloro Aniline Either/OR	95-76-1/ 608-27-5 / 95-82-9																				
4	2,4 Di Chloro Aniline / 2,6 Di Chloro Aniline / 3,5 Di chloro Aniline Either/OR	554-00-7/ 608-31-1/ 626-43-7																				
5	3,4 Di Amino Di Phenyl Ether / 4,4 Di amino Di phenyl Ether Either/OR	2657-87-6/ 101-80-4																				
6	Ortho Anisidine/ Para Anisidine/ Meta Anisidine Either/OR	90-04-0/ 104-94-9/ 536-90-3																				
7	Chloro Fluoro Aniline Either/OR	367-21-5																				
8	Ortho Cumidine / Para Cumidine / Meta Cumidine Either/OR	643-28-7/ 99-88-7/ 5369-16-4																				
9	Toluidines Either/OR	95-53-4																				
10	Aniline Either/OR	62-53-3																				
11	Para Fluoro Aniline / Meta Fluoro Aniline / Ortho Fluoro Aniline Either/OR	371-40-4/ 372-19-0/ 348-54-9																				
12	1, 3 Di Fluoro Aniline/ 2, 4 Di Fluoro Aniline Either/OR	367-25-9																				
13	1,3 Di Fluoro Benzene Either/OR	372-18-9																				
14	4-Fluoro-N- Isopropyl Aniline Either/OR	70441-63-3																				
15	4-Chloro-N- Isopropyl Aniline Either/OR	770-40-1																				
16	2,3,4 Tri Fluoro Aniline Either/OR	3862-73-5																				
17	Crude of All above Group II. A (Sr. No. 1-16 Hydrogenation products)	--																				
II.B	Group IIB- Hydrogenated Products and Its Derivatives: 36000 MT/Annum																					
1	2,4,5 Tri Chloro Aniline Either/OR	636-30-6	36000	0	36000	Complied. Production quantity is under permitted capacity. <table><tr><th>Month</th><th>Production, MT</th></tr><tr><td>Apr'24</td><td>197.905</td></tr><tr><td>May'24</td><td>316.2</td></tr></table>	Month	Production, MT	Apr'24	197.905	May'24	316.2										
Month	Production, MT																					
Apr'24	197.905																					
May'24	316.2																					
2	Meta Phenylene Di Amine/ Ortho Phenylene Di Amine/ Para Phenylene Di Amine Either/OR	108-45-2/ 95-54-5/ 106-50-3																				
3	Para Amino Phenol/ Meta Amino Phenol Either/OR	123-30-8/ 591-27-5																				

							Jun'24	156.500
							Jul'24	92.387
							Aug'24	235.500
4	Crude of All above Group II. B (Sr. No.1-3 Hydrogenation products)	--					Sep'24	607.350
							Total	1605.842
III	Nitration Products and Its Derivatives: 24000 MT/Annum (except 4NPI-12000 MT/Annum)							
1	3,4 Di Chloro Nitro Benzene/ 2,5 Di Chloro Nitro Benzene/ 2,3 Di Chloro Nitro Benzene Either/OR	99-54-7/ 89-61-2/ 3209-22-1	24000	0	24000	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.		
2	2,4,5 Tri Chloro Nitro Benzene/ 2,3,4 Tri Chloro Nitro Benzene Either/OR	89-69-0/ 17700-09-3						
3	Crude of All above Group III. (1-2 Nitration products)	--						
4	4-Nitro N-methyl Phthalimide (4NPI) Either/OR	41663-84-7	12000		12000	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.		
5	Crude of 4-Nitro N-methyl Phthalimide (4NPI)	--						
IV	Nitro Anisoles Products and Its Derivatives: 14400 MT/Annum							
1	Ortho Nitro Anisole Either/OR	91-23-6	14400	0	14400	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.		
2	Para Nitro Anisole Either/OR	100-17-4						
3	Crude of All above Group IV. (1-2 Nitro Anisol products)	--						
V	De-Nitro Chlorination Products and Its Derivatives :14400 MT/Annum							
1	2,6 Di Chloro fluoro Benzene Either/OR	2268-05-5	14400	0	14400	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.		
2	2,6 Di Chloro Benzo Nitrile Either/OR	1194-65-6						
3	Meta Di chloro Benzene Either/OR	541-73-1						
4	2,4 Di fluoro Chloro Benzene Either/OR	1435-44-5						
5	2,4 Di chloro Fluoro Benzene Either/OR	1435-48-9						
6	1.3 Dichloro 4,6 Difluoro Benzene/ 1,5 Dichloro 2,4 Difluoro Benzene Either/OR	2253-30-7						
7	Crude of All above Group V (Sr. No. 1-6 De Nitro Chlorination products)	--						
VI	DAPBI 2. (4-amino phenyl) - 1H-benzo (d) imidazol -5- amine	7621-86-5	756	0	756	Complied. Production quantity is under permitted capacity.		

						<table><tr><th>Month</th><th>Production, MT</th></tr><tr><td>Apr'24</td><td>4.713</td></tr><tr><td>May'24</td><td>2.798</td></tr><tr><td>Jun'24</td><td>0.450</td></tr><tr><td>Jul'24</td><td>0.000</td></tr><tr><td>Aug'24</td><td>1.719</td></tr><tr><td>Sep'24</td><td>5.757</td></tr><tr><td>Total</td><td>15.437</td></tr></table>	Month	Production, MT	Apr'24	4.713	May'24	2.798	Jun'24	0.450	Jul'24	0.000	Aug'24	1.719	Sep'24	5.757	Total	15.437
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Total	15.437																					
VII	Concentrated Nitric Acid from Dilute Nitric Acid (CNA from DNA)	7697-37-2	108000	0	108000	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.																
UNIT-III PRODUCT LIST																						
VIII	Nitration : 84000 MT/Annum																					
1	2,4/2,3/2,5/3,4 Di Chloro Nitro Benzene Either/Or	611-06-3/ 3209-22-1/ 89-61-2/ 99-54-7	0	84000	84000	Complied. Production quantity is under permitted capacity. <table><tr><th>Month</th><th>Production, MT</th></tr><tr><td>Apr'24</td><td>290.113</td></tr><tr><td>May'24</td><td>422.000</td></tr><tr><td>Jun'24</td><td>830.034</td></tr><tr><td>Jul'24</td><td>530.080</td></tr><tr><td>Aug'24</td><td>1101.425</td></tr><tr><td>Sep'24</td><td>1260.231</td></tr><tr><td>Total</td><td>4433.883</td></tr></table> Presently the unit is having partial CCA. The unit has applied for CCA Amendment inward no. 276574 dated 15.03.2023 for 2,4/2,3/2,5/3,4 Di Chloro Nitro Benzene. Unit is yet to apply for CC&A Amendment for the rest of the products.	Month	Production, MT	Apr'24	290.113	May'24	422.000	Jun'24	830.034	Jul'24	530.080	Aug'24	1101.425	Sep'24	1260.231	Total	4433.883
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Total	4433.883																					
2	2,3,4/2,3,5 Tri Chloro Nitro Benzene Either/Or	17700-09-3/ 34283-94-8																				
3	2,4,5/2,3,6 Tri Chloro Nitro Benzene Either/Or	89-69-0/ 27864-13-7																				
IX Chlorination : 24000 MT/Annum																						
1	1,2,4 Tri Chloro Benzene Either/Or	120-82-1	0	24000	24000	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.																
2	1,2,3 Tri Chloro Benzene Either/Or	87-61-6																				
3	Para Chloro Toluene (PCT) Either/Or	106-43-4																				
4	Ortho Chloro Toluene (OCT)	95-49-8																				


	Either/Or																					
5	2 Chloro 4 Nitro Toluene Either/Or	121-86-8																				
6	6 Chloro 2 Nitro Toluene Either/Or	83-42-1																				
7	4 Chloro 2 Nitro Toluene Either/Or	89-59-8																				
X	Physical Separations: 25200 MT/Annum																					
1	Ortho Di chloro Benzene (only Physical Separation)	95-50-1	0	10800	10800	<div>Complied. Production quantity is under permitted capacity.</div> <table><tr><th>Month</th><th>Production, MT</th></tr><tr><td>Apr'24</td><td>895.189</td></tr><tr><td>May'24</td><td>880.749</td></tr><tr><td>Jun'24</td><td>766.972</td></tr><tr><td>Jul'24</td><td>793.619</td></tr><tr><td>Aug'24</td><td>875.374</td></tr><tr><td>Sep'24</td><td>913.569</td></tr><tr><td>Total</td><td>5125.472</td></tr></table> <div>Presently the unit is having partial CCA. The unit has applied for CCA Amendment inward no. 276574 dated 15.03.2023.</div>	Month	Production, MT	Apr'24	895.189	May'24	880.749	Jun'24	766.972	Jul'24	793.619	Aug'24	875.374	Sep'24	913.569	Total	5125.472
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Total	5125.472																					
2	Para Di chloro Benzene (only Physical Separation)	106-46-7	0	12000	12000	<div>Complied. Production quantity is under permitted capacity.</div> <table><tr><th>Month</th><th>Production, MT</th></tr><tr><td>Apr'24</td><td>251.896</td></tr><tr><td>May'24</td><td>453.746</td></tr><tr><td>Jun'24</td><td>414.132</td></tr><tr><td>Jul'24</td><td>342.144</td></tr><tr><td>Aug'24</td><td>416.653</td></tr><tr><td>Sep'24</td><td>438.959</td></tr><tr><td>Total</td><td>2317.53</td></tr></table> <div>Presently the unit is having partial CCA. The unit has applied for CCA Amendment inward no. 276574 dated 15.03.2023.</div>	Month	Production, MT	Apr'24	251.896	May'24	453.746	Jun'24	414.132	Jul'24	342.144	Aug'24	416.653	Sep'24	438.959	Total	2317.53
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Total	2317.53																					
3	Meta Di chloro Benzene (only Physical Separation)	541-73-1	0	2400	2400	<div>Complied. Production quantity is under permitted capacity.</div>																

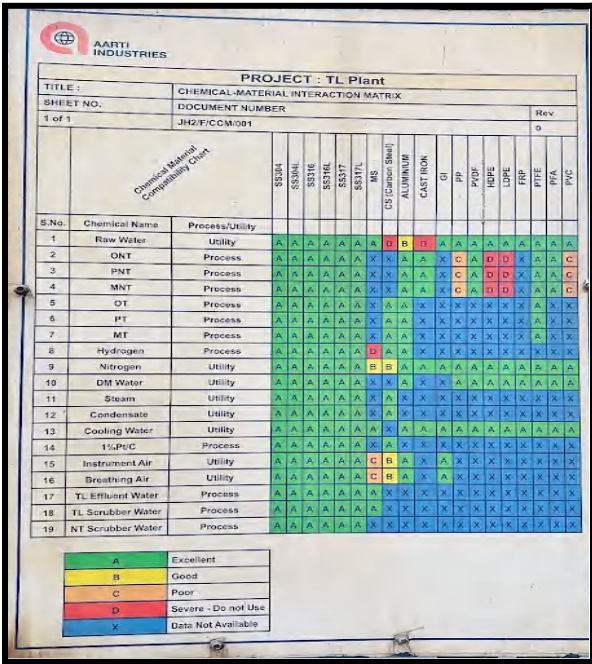
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Total	0.000																					
XI	Inorganic Products: 3000 Nm³/Hr																					
1	Hydrogen, Nm3/hr	1333-74-0	0	3000	3000	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for this product.																
Inorganic Product																						
1	Steam (By product)	-	135.56 KL/Day	00	135.56 KL/Day	<p>Complied. Production quantity is under permitted capacity.</p> <table><tr><th>Month</th><th>Steam Production (KL/Day)</th></tr><tr><td>Apr'24</td><td>0.000</td></tr><tr><td>May'24</td><td>0.000</td></tr><tr><td>Jun'24</td><td>0.000</td></tr><tr><td>Jul'24</td><td>0.000</td></tr><tr><td>Aug'24</td><td>0.000</td></tr><tr><td>Sep'24</td><td>0.000</td></tr></table>	Month	Steam Production (KL/Day)	Apr'24	0.000	May'24	0.000	Jun'24	0.000	Jul'24	0.000	Aug'24	0.000	Sep'24	0.000		
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Sr. No.	CONDITIONS	COMPLIANCE
A.	CONDITIONS:	
A.1 SPECIFIC CONDITION:		
1.	Unit shall strictly comply with each and every condition accorded by SEIAA vide letter no. SEIAA/GUJ/EC/5(f)/1161/2021 dated 02-07-2021, SEIAA/GUJ/EC/5(f)/1412/2019 dated 04-11-2019 and SEIAA/GUJ/EC/5(f)/101/2020 dated 05-02-2020 by new management as per details submitted by PP.	<p>Noted.</p> <p>Unit is complying with every condition accorded by SEIAA in SEIAA vide letter no. SEIAA/GUJ/EC/5(f)/1161/2021 dated 02-07-2021, SEIAA/GUJ/EC/5(f)/1412/2019 dated 04-11-2019 and SEIAA/GUJ/EC/5(f)/101/2020 dated 05-02-2020.</p> <p>Compliance reports of the previous accorded EC are attached as <u>Annexure-1</u>.</p>
2.	Unit shall strictly adhere with notarized undertaking submitted by PP stating that there shall be no change in plant machinery, pollution load and product list after merger of both units.	<p>Complied.</p> <p>Unit is strictly complying with the notarized undertaking for no change in plant machinery, pollution load and product list after merger of both units.</p>
3.	PP shall develop greenbelt 31,831.14 sqm (14.13%) within the premises + 45,212 sq.m (20.07%) at plot having survey no: 122 GIDC Jhagadia & adjacent boundary side of the premises, (total 77,043.14 sq.m i.e. 34.21 % of the total plot area) as committed before SEAC. Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.	<p>Complied.</p> <p>Presently the unit has developed Green Belt of approx. 14778 m² within the premises & approx 40428 m² is developed at revenue survey plot No. 122 with varieties of indigenous trees. Total 55206 m² i.e. 24.51% green belt area has been developed till date</p> <p>Unit has started developing the remaining green belt at revenue survey plot No. 123 & 109 (approx 22055 m²). After development of the remaining green belt, total green belt area would be 77261 m². i.e 34.30% of the total plot area.</p> <p>Photographs of the existing greenbelt are attached as <u>Annexure-2</u>.</p>
4.	Close loop solvent recovery system with adequate condenser system shall be provided to recover solvent vapors in such a manner that recovery shall be maximum and recovered solvent shall be reused in the process within premises.	<p>Complied.</p> <p>Close loop solvent recovery system with an adequate condenser system is provided and recovered solvent is being used in the same process within the premises.</p>
5.	Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines. LDAR Logbooks shall be maintained.	<p>Complied.</p> <p>Unit is adhering to internal guidelines for LDAR prepared based on the MoEF notification G.S.R.186 (E): Fugitive emission. Unit is carrying out quarterly LDAR</p>

		<p>monitoring.</p> <p>LDAR Monitoring Logsheet along with report for the said period is attached as <u>Annexure-3</u>.</p>
6.	<p>Unit shall install CEMS continuous Emission Monitoring System in line to CPCB directions to all SPCB vide letter no. 8-29016/04/06PCL-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's server. which can be assessable by the GPCB/CPCB on real time basis. [For Small/Large/Medium (Red Category) & Whichever (Air emission & Effluent discharge) is applicable.</p>	<p>Complied.</p> <p>The unit has installed and connected required OCEMS to CPCB & GPCB for continuous monitoring of effluent discharge.</p> <p>Screenshots of the CPCB & GPCB portal are attached as <u>Annexure-4</u>.</p>
7.	<p>The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No 826 (E) dated 16th November, 2009 shall be complied with.</p>	<p>Complied.</p> <p>Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEF&CC approved and NABL Accredited laboratory. All results are well within the prescribed limits.</p> <p>Month-wise results of the various parameters are provided in the <u>Annexure-5</u>.</p> <p>Ambient Air Monitoring Report of Aug '24 is attached as <u>Annexure-6</u> for reference.</p>
8.	<p>National Emission Standards For Organic Chemicals Manufacturing industry issued by the Ministry vide G. S. R 608 (E) dated 21/07/2010 and amended from time to time shall be followed.</p>	<p>Complied.</p> <p>The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37 and the copy of the same is attached as <u>Annexure-7</u> for your reference.</p>
9.	<p>Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants, and shall carry out the project development in accordance & consistency with the same.</p>	<p>Complied.</p> <p>Unit is complying with the area specific policies of GPCB with respect to the discharge of pollutants.</p>
10.	<p>All measures shall be taken to avoid soil and groundwater contamination within premises.</p>	<p>Complied.</p> <p>Following measures have been taken to prevent soil and groundwater contamination:</p> <ul style="list-style-type: none"> • Pucca flooring is provided inside plant, raw material/product storage area • Concrete/ Bituminous roads are provided. • Bunding/dyke to chemical storage areas with collection and transferring facilities.

		<ul style="list-style-type: none"> • Closed loop transfer system provided for effluent, raw materials, products and other chemicals. • Separate Storm Water and process drains facility • Checklist for leakage monitoring & compliance. • Routine Soil monitoring, • Adequate effluent treatment facility, • Dedicated hazardous waste storage area having pucca flooring, • Acid proof tiling in the spent acid storage area. • Membership obtained from a common waste disposal facility for treatment and disposal of generated hazardous waste.
11.	Project proponent (PP) shall maintain complete ZLD all the time and there shall be no GIDC Drainage connection within premise and no waste water discharge outside premises by any means.	<p>Complied.</p> <p>As per the condition no. 17 of A.2, unit has permission to discharge treated effluent into the NCT-JPP pipeline. Accordingly, the unit has obtained CC&A amendment No. AWH-126636 dated 28.06.2023 for discharge of treated effluent after achieving the prescribed norms as mentioned in CC&A.</p>
12.	Safety & Health	
a.	PP shall obtain PESO permission for the storage and handling of hazardous chemicals.	<p>Complied.</p> <p>Necessary permission has been obtained from PESO.</p> <ul style="list-style-type: none"> • P/WC/GJ/15/2715 (P404037) dated 17/03/2020 which is valid upto 31/12/2025. • P/WB/GJ/15/2862 (P526017) dated 12/10/2022 which is valid upto 31/12/2024. <p>Both licenses are attached as <u>Annexure-8</u> for reference.</p>
b.	PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U.	<p>Complied.</p> <p>Unit has provided an Occupational Health center within the site as per the provision under the Gujarat Factories Rule 68-U and the same is being operated under the supervision of a qualified Factory Medical Officer (FMO) and nurses.</p>

		
c.	PP shall obtain fire safety certificate / Fire No-Objection certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.	Complied. Unit has obtained a valid Factory License (License No. 15402, valid upto 31 st December, 2025). Factory License is attached as <u>Annexure-9</u> for reference.
d.	Unit shall adopt functional operations/process automation system including emergency response to eliminate risk associated with the hazardous processes.	Complied. Unit has adopted an operational process automation system like DCS for operation, monitoring and control. Other auxiliary systems are also controlled through PLC & SCADA (wherever required). Additionally, process safety devices like PSVs (Pressure safety valves), safety interlocks, emergency on/off buttons, LEL detectors, automatic sprinkler systems etc are integral part of automation systems for early detection of emergency and eliminating the risk.
e.	PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident.	Complied. Unit regularly conducts mock drills within the premises. Last Mock drill was conducted on 28.08.2024 and a report of the same was submitted to DISH on 03.10.2024, Bharuch which is attached as <u>Annexure-10</u> .
f.	PP shall install adequate fire hydrant system with foam trolley within premises and separate storage of water for the same shall be ensured by PP.	Complied. Unit has adequately provided fire hydrant system with dedicated Fire Water Storage of capacity 6070 KL. Details of the fire water Storage and pump details are attached as <u>Annexure-11</u> . Unit has also provided fire tender for emergency handling.
g.	PP shall take all the necessary steps for control of storage	Complied.

	<p>hazards within premises ensuring incompatibility of storage raw material and ensure the storage keeping safe distance as per the prevailing guidelines of the concerned authority.</p>	<p>All materials are stored as per approved compatibility matrix and are displayed at prominent locations.</p>  <p>Moreover, dedicated storage facility of flammable chemicals & hazardous chemicals provided at safer distance from production area as per PESO approval.</p>
h.	<p>PP shall take all the necessary steps for human safety within premises to ensure that no any harm is caused to any worker/employee or Labor within premises.</p>	<p>Complied.</p> <p>All measures are being taken to avoid any accidents. Mandatory use of appropriate PPEs like Safety shoes, Safety goggles, Helmet, gloves, cartridge mask, ear plug/muff etc. is ensured so that no harm is caused to any worker/employee.</p>
i.	<p>Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.</p>	<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. The cover page of the same is attached as <u>Annexure-12</u></p>
j.	<p>PP shall provide double earthing to solvent storage tanks</p>	<p>Complied.</p> <p>We have provided double earthing to reactors, receivers, and solvent piping. Also proper earthing is provided to all electrical motors/ MCC/ Push button etc. as per Electricity Act 2003.</p>

k.	Unit shall never store drum/tarrels/carboys of incompatible material/chemical together.	Complied. All materials are stored as per approved compatibility matrix. Please refer to point no. 12 (g) of A.1.														
l.	Unit shall provide effective isolation for Process area and storage of hazardous chemicals.	Complied. Dedicated storage facility of flammable chemicals & hazardous chemicals provided at safer distance from production area as per PESO approval.														
A.2	WATER															
13.	Total water consumption for proposed expansion shall not exceed 8250.28 KL/day (Fresh+Recycle). Unil will reuse 2259.28 KL/day of treated industrial effluent within premises. Hence, fresh Water requirement for the proposed expansion shall not exceed 5991 KL/day and it shall be met through GIDC water supply only. Prior permission from concerned authority shall be obtained for withdrawal of water.	Complied. Unit receives water from the GIDC water supply only. No ground water is extracted. Unit has taken permission from GIDC for water supply which is attached as <u>Annexure-13</u> . Fresh water consumption is well within the permissible limit (i.e. 4878.28 KLD) as per CC&A Amendment No. AWH-126636 dated 28.06.2023. Kindly refer to the attached CC&A as <u>Annexure-14</u> . <table><tr><th>Month</th><th>Quantity (KLD)</th></tr><tr><td>Apr'24</td><td>1567</td></tr><tr><td>May'24</td><td>1920</td></tr><tr><td>Jun'24</td><td>1549</td></tr><tr><td>Jul'24</td><td>1659</td></tr><tr><td>Aug'24</td><td>1417</td></tr><tr><td>Sep'24</td><td>1744</td></tr></table>	Month	Quantity (KLD)	Apr'24	1567	May'24	1920	Jun'24	1549	Jul'24	1659	Aug'24	1417	Sep'24	1744
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Aug'24	1417															
Sep'24	1744															
14.	No ground water shall be tapped for the project requirement.	Complied. No groundwater is being tapped for utilization. The unit is only using water from GIDC.														

15.	<p>The industrial wastewater generation for proposed expansion shall not exceed 2260 KLD.</p>	<p>Complied.</p> <p>Industrial wastewater generation is well within the permissible limit (i.e. 555.84 KLD) as per CC&A Amendment No. AWH-126636 dated 28.06.2023.</p> <p>Kindly refer below table for the wastewater generation details.</p> <table><tr><th>Month</th><th>Quantity (KLD)</th></tr><tr><td>Apr'24</td><td>149</td></tr><tr><td>May'24</td><td>162</td></tr><tr><td>Jun'24</td><td>237</td></tr><tr><td>Jul'24</td><td>347</td></tr><tr><td>Aug'24</td><td>325</td></tr><tr><td>Sep'24</td><td>273</td></tr></table>	Month	Quantity (KLD)	Apr'24	149	May'24	162	Jun'24	237	Jul'24	347	Aug'24	325	Sep'24	273																		
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16.	<p>Industrial effluent shall be segregated into two streams</p> <p>(1) High COD and TDS effluent</p> <p>(2) Low COD and TDS effluent</p> <p>and it shall be manages as below:</p> <p><u>High COD and TDS effluent 1244 KLD:</u></p> <p>1073 KLD, High COD and TDS effluent from process, washing, scrubber and reaction and 171 KLD, industrial effluent from M/s. Aarti Industries Ltd. (Unit-III) shall be treated ETP consist of primary treatment units. Out of 1243 KLD treated effluent, 540 KLD shall be discharge in NCT, pipeline and 703 KLD shall be further treated within premises.</p> <p><u>Low COD and TDS effluent 1719 KLD):</u></p> <p>703 KLD, treated effluent, 956 KLD, low COD effluent from utilities and 60 KLD. Industrial effluent from M/s. Aarti industries (Unit-III) shall be treated in RO. 1375 KLD, RO permeate shall be reused within premises and 344 KLD, RO reject shall be treated in MEE. 318 KLD, MEE condensate shall be reused within premises.</p>	<p>Complied.</p> <p>Currently, the unit is managing industrial effluent as per condition no. 3.3 (a & b) of CC&A Amendment No. AWH-126636 dated 28.06.2023.</p> <p>The unit has provided adequate treatment facilities including ETP (primary, secondary and tertiary), MEE-ATFD and RO system.</p> <p>Effluent meeting the discharge norms sent to NCT for further treatment and discharge into deep sea.</p> <table><tr><th colspan="4">Effluent Disposal (KLD)</th></tr><tr><th>Month</th><th>Total</th><th>Discharge to NCT-Pipeline</th><th>CMEE</th></tr><tr><td>Apr'24</td><td>142</td><td>142</td><td>0</td></tr><tr><td>May'24</td><td>177</td><td>177</td><td>0</td></tr><tr><td>Jun'24</td><td>245</td><td>245</td><td>0</td></tr><tr><td>Jul'24</td><td>322</td><td>322</td><td>0</td></tr><tr><td>Aug'24</td><td>313</td><td>313</td><td>0</td></tr><tr><td>Sep'24</td><td>257</td><td>249</td><td>8</td></tr></table>	Effluent Disposal (KLD)				Month	Total	Discharge to NCT-Pipeline	CMEE	Apr'24	142	142	0	May'24	177	177	0	Jun'24	245	245	0	Jul'24	322	322	0	Aug'24	313	313	0	Sep'24	257	249	8
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17.	<p>Treated wastewater shall be sent to M/s. NCT, pipeline only after complying with the inlet norms of common facilities prescribed by GPCB to ensure no adverse impact on Human health and environment.</p>	<p>Complied.</p> <p>The unit has installed and connected required OCEMS to CPCB & GPCB for continuous monitoring of effluent discharge.</p>																																


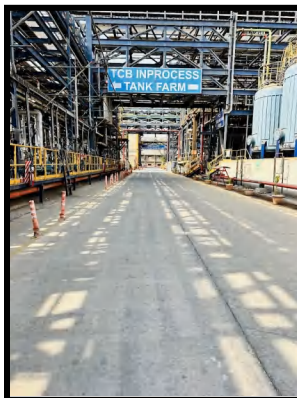
		<p>To make sure that discharge parameters are being followed, we have set up an interlock system that is connected to a TOC meter. The DSC system also has an alarm for this purpose. The treated effluent meeting the discharge norms sent to NCT-JPP pipeline for deep sea discharge.</p> <p>Apart from that, M/s. NCT is regularly sampling and monitoring treated effluent.</p> <p>Furthermore, monthly monitoring of treated effluent is being carried out by external NABL accredited and MoEF&CC approved lab.</p>														
18.	Unit shall provide adequate treatment to industrial effluent in such a way that feed wastewater to inhouse MEE only after ensuring content to effluent for COD/VOC so as not to get the air borne during evaporation in order to achieve no adverse impact on Environment and Human Health.	<p>Complied.</p> <p>Currently, the unit is managing industrial effluent as per condition no. 3.3 (a & b) of CC&A Amendment No. AWH-126636 dated 28.06.2023.</p> <p>The unit has provided primary, secondary & tertiary treatment & Ammonia stripping unit for industrial effluent to control COD/VOC so that no airborne emissions is generated during evaporation.</p>														
19.	Domestic wastewater generation shall not exceed 178 KL/Day for proposed project and it shall be treated in STP. It shall not be disposed off through soak pit septic tank. Treated sewage be utilized for gardening and plantation purpose within premises after achieving onland discharge norms prescribed by the GPCB or reused in process & cooling water.	<p>Complied.</p> <p>Unit has a proper Sewage treatment facility - STP to treat domestic effluent. Treated domestic wastewater is utilized in gardening/plantation and cooling towers within own premises.</p> <p>Domestic wastewater generation is well within the CC&A limit i.e 120 KLD (AWH-126636)</p> <table><tr><th>Month</th><th>Quantity (KLD)</th></tr><tr><td>Apr'24</td><td>35</td></tr><tr><td>May'24</td><td>28</td></tr><tr><td>Jun'24</td><td>37</td></tr><tr><td>Jul'24</td><td>42</td></tr><tr><td>Aug'24</td><td>44</td></tr><tr><td>Sep'24</td><td>37</td></tr></table>	Month	Quantity (KLD)	Apr'24	35	May'24	28	Jun'24	37	Jul'24	42	Aug'24	44	Sep'24	37
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20.	During monsoon season when treated sewage may not be required for the plantation/gardening/greenbelt purpose. It shall be reused within process and cooling tower. There shall be no discharge of waste water outside the premises in any case.	<p>Complied.</p> <p>During the rainy season sewage generated from the domestic activities are treated in STP & used in cooling towers as a makeup water.</p>														


21.	The unit shall provide metering facility at the inlet and outlet of the fenton treatment, effluent treatment plant, RO system, MEE plant & STP, and maintain the record of the same.							Complied. Flowmeters are provided at inlet and outlet of treatment facilities. Photographs of Flowmeters are attached as <u>Annexure-15</u> for your ready reference.																																																																																			
22.	Proper Logbook of the ETP, RO, MEE & STP operation, effluent quality and quantity, chemical & power consumption treated effluent reused in process & gardening/plantation, chemical & power consumption etc. shall be maintained and shall be furnished to GPCB from time to time.							Complied. Unit is maintaining proper logbooks of ETP, MEE, STP recycle/ reuse of treated/ untreated effluent, chemical consumption in effluent treatment, quantity & quality of treated effluent, power consumption. Photographs of logbooks are attached as <u>Annexure-16</u> for your ready reference.																																																																																			
A.3 AIR																																																																																											
23	Unit shall not exceed fuel consumption for boilers, TFHs, HAGs and oxidizers and D G Set as mentioned below:																																																																																										
<table><tr><td colspan="7"><table><tr><th>Sr. No.</th><th>Source of emission with capacity</th><th>Stack Height (m)</th><th>Type of Fuel</th><th>Quantity of Fuel (MT/Day)</th><th>Type of emission i.e. Air Pollutants</th><th>Air Pollution Control Measures (APCM)</th></tr><tr><td>1</td><td>DG Set 650 KVA (2 Nos.)</td><td>11</td><td>HSD</td><td rowspan="5">7086 Lit/Hr.</td><td rowspan="4">Particulate matter SO2 NOx</td><td>Acoustic Enclosure</td></tr><tr><td>2</td><td>DG Set 1010 KVA (7 Nos.)</td><td>11</td><td>HSD</td><td>Acoustic Enclosure</td></tr><tr><td>3</td><td>DG Set 2500 KVA (4 Nos.)</td><td>11</td><td>HSD</td><td>Acoustic Enclosure</td></tr><tr><td>4</td><td>DG Set 750 KVA (3 Nos. Existing)</td><td>11</td><td>HSD</td><td>Acoustic Enclosure</td></tr><tr><td>5</td><td>DG Set 1500 KVA (2 Nos. 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For proposed facilities, the unit shall comply with the condition after installation and obtaining CC&A amendment.</p><p>Unit has provided adequate APCMs in the existing flue gas generation sources & is achieving the norms as per GPCB/CPCB/MoEF&CC standards.</p><p>Flue gas emissions are well within the limit. Month-wise results of the flue gas emission are provided in the <u>Annexure-17</u>.</p><p>Analysis report of Flue gas emission for Aug'24 are attached as <u>Annexure-18</u>.</p></td></tr></table>											<table><tr><th>Sr. No.</th><th>Source of emission with capacity</th><th>Stack Height (m)</th><th>Type of Fuel</th><th>Quantity of Fuel (MT/Day)</th><th>Type of emission i.e. Air Pollutants</th><th>Air Pollution Control Measures (APCM)</th></tr><tr><td>1</td><td>DG Set 650 KVA (2 Nos.)</td><td>11</td><td>HSD</td><td rowspan="5">7086 Lit/Hr.</td><td rowspan="4">Particulate matter SO2 NOx</td><td>Acoustic Enclosure</td></tr><tr><td>2</td><td>DG Set 1010 KVA (7 Nos.)</td><td>11</td><td>HSD</td><td>Acoustic Enclosure</td></tr><tr><td>3</td><td>DG Set 2500 KVA (4 Nos.)</td><td>11</td><td>HSD</td><td>Acoustic Enclosure</td></tr><tr><td>4</td><td>DG Set 750 KVA (3 Nos. Existing)</td><td>11</td><td>HSD</td><td>Acoustic Enclosure</td></tr><tr><td>5</td><td>DG Set 1500 KVA (2 Nos. 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Fuel consumption is well within the given limit. <table><tr><th>Sr No.</th><th>Month</th><th>HSD (L/Hr)*</th><th>Coal (MT/Hr)*</th></tr><tr><td>1</td><td>Apr'24</td><td>0.000</td><td>1.617</td></tr><tr><td>2</td><td>May'24</td><td>0.925</td><td>2.303</td></tr><tr><td>3</td><td>Jun'24</td><td>3.344</td><td>1.990</td></tr><tr><td>4</td><td>Jul'24</td><td>3.731</td><td>1.559</td></tr><tr><td>5</td><td>Aug'24</td><td>1.849</td><td>1.893</td></tr><tr><td>6</td><td>Sep'24</td><td>7.167</td><td>2.181</td></tr></table> <p>*The above mentioned data is for existing facilities only. For proposed facilities, the unit shall comply with the condition after installation and obtaining CC&A amendment.</p> <p>Unit has provided adequate APCMs in the existing flue gas generation sources & is achieving the norms as per GPCB/CPCB/MoEF&CC standards.</p> <p>Flue gas emissions are well within the limit. 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				For each Boiler	
7	Boiler 150 TPH (1 Nos.)	83	Coal	37.5 MT/Hr.	Lime addition along with coal +ESP
8	Thermic Fluid Heater (Thermopack) 4 Lakh Kcal/Hr (1 No.)	20 (For Coal) & 15 (For Natural Gas)	Coal/NG	0.2 MT/Hr/ 6 Nm3/Hr	Dust Collector, Cyclone Separator (For Coal)
9	Thermic Fluid Heater (Thermopack) 40 Lakh Kcal/Hr (2 Nos.)	34 m each	Coal	1.95 MT/Hr for Each	Bag Filter
10	Hot Air Generator (For Calcium Chloride Dryer) - (1 No.)	33	Coal	8 MT/Hr.	Cyclone Separator , Bag filter & Water Scrubber
11	Vent gas oxidizer - 1 No. (Proposed)	30	Natural gas	41 Nm3/Hr.	--
12	D.G Set 1500 kVA (2 Nos.)	33	Diesel	660 L/Hr.	Adequate stack height + Acoustic barrier
<p>Note: Steam will be supplied to Aarti industries Limited (Unit-I), Plot No. 758/ 1-2-3 @ 30 TPH & Aarti industries Limited (Unit-III), Plot No. 778 @ 30 TPH. (After amalgamation Unit-III will be part of Unit II) from 150 TPH Boiler proposed in this Aarti Industries Limited Unit-II .</p>					

	Steam condensate will be received back to the AIL Unit-II. The Chilling water/coolant will be supplied to M/s. Aarti industries Limited (Unit-I) @500 TR.					
24.	Unit shall provide adequate APCM with flue gas generation sources as mentioned above.					<p>Complied.</p> <p>Unit has provided adequate APCMs in the existing flue gas generation sources & is achieving the norms as per standards mentioned in CC&A.</p>
25.	Unit shall provide adequate APCM with process gas generation sources as mention below:					<p>Complied.</p> <p>Unit has provided adequate APCMs in the existing process gas generation sources & is achieving norms as per standards mentioned in CC&A.</p> <p>Process gas emissions are well within the limit. Month-wise results of the process gas emission are provided in the <u>Annexure-19</u>.</p> <p>Analysis report of process gas emission for Aug'24 are attached as <u>Annexure-18</u>.</p> <p>The above mentioned data is for existing facilities only. For remaining facilities, the unit shall comply with the condition after installation and obtaining CC&A amendment.</p>
	Sr. No:	Specific Source of emission (Name of the product & process)	Type of emission	Permissible Limits	Stack / Vent Height (m)	Air Pollution Control Measures (APCM)
	1	Reformer	CO	150 mg/N m3	26	-
	2	CaCO3 Reactor	HCl	20 mg/N m3	23	Alkali Scrubber
	3	CaCl2 Dryer vent	Particulate Matter	150 mg/N m3	20	Cyclone separators & Wet Scrubber
	4	Chlorinator Reactor vent	HCl Chlorine	20 mg/N m3 09 mg/N m3	15	Falling film absorber followed by Alkali Scrubber
	5	Nitration Vessels	NOx	25 mg/N m3	15	Acidic Scrubber
	6	CLB- Cl2 scrubber	Cl2	09 mg/N m3	15	Single Stage, 10% NaOH
	7	CLB - PDCB Scrubbers	VOC	-	15	Single Stage, ODCB

8	CLB - HCL Scrubber-	HCl	20 mg/N m3	15	HCl absorber followed by caustic scrubber
9	CLB - HCL Scrubber	HCl	20 mg/N m3	15	HCl absorber followed by caustic scrubber
10	TCB - HCL Scrubber	HCl	20 mg/N m3	15	HCl absorber followed by caustic scrubber
11	TCB - Cl2 Scrubber	Cl2	09 mg/N m3	15	Single Stage, 10% NaOH
12	TCB - ODCB Scrubber	VOC	-	15	Single Stage, ODCB
13	DCPNA - HCL Scrubber	HCl	20 mg/N m3	15	HCl absorber followed by caustic scrubber
14	DCPNA - Cl2 Scrubber	Cl2	09 mg/N m3	15	Single Stage, 10% NaOH
15	DAPBI Process	HCl	20 mg/N m3	15	Water Scrubber followed by Alkali Scrubber
16	DAPBI Process	NH3	175 mg/N m3	15	Acidic Scrubber
17	ETP Scrubber	NH3	175 mg/N m3	15	Acidic Scrubber

	<table><tr><td>18</td><td>Scrubber connected to Nitration Reactors.</td><td>NOx</td><td>25 mg/N m3</td><td>11</td><td>2-stage Alkali Scrubber</td></tr><tr><td>19</td><td>Scrubber connected to Chlorination Reactor</td><td>HCL</td><td>25 mg/N m3</td><td>11</td><td>Water scrubber followed by Alkali Scrubber</td></tr><tr><td>20</td><td>PSA Absorber</td><td>VOC</td><td>-</td><td>26</td><td>Water scrubber</td></tr></table>	18	Scrubber connected to Nitration Reactors.	NOx	25 mg/N m3	11	2-stage Alkali Scrubber	19	Scrubber connected to Chlorination Reactor	HCL	25 mg/N m3	11	Water scrubber followed by Alkali Scrubber	20	PSA Absorber	VOC	-	26	Water scrubber	
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19	Scrubber connected to Chlorination Reactor	HCL	25 mg/N m3	11	Water scrubber followed by Alkali Scrubber															
20	PSA Absorber	VOC	-	26	Water scrubber															
26.	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. The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37 and the copy of the same is attached as <u>Annexure-7</u> for your reference.																		
➤	internal roads shall be either concentrated or asphalted or paved properly to reduce the fugitive emission during vehicular movement.	Complied. All internal roads are asphalted or paved properly and cleaned on a regular basis. The entire site is either asphalted or paved area or green area. <div></div>																		
➤	Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.	Complied. Water sprinklers have been provided in the coal and ash handling area to reduce fugitive emission.																		

		
	➤ A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.	Complied. Green-Belt developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.
27.	Regular monitoring of Volatile Organic Compounds (VOCS) shall be carried out in the work zone and ambient air.	Complied. The unit is carrying out regular monitoring of Volatile Organic Compounds in the work zone and ambient air. Kindly refer <u>Annexure-7</u> & <u>Annexure-5</u> respectively.
28.	For control of fugitive emission, VOCs, following steps shall be followed:	
a.	Closed handling and charging systems shall be provided for chemicals.	Complied. Closed handling and charging systems are provided for chemicals.
b.	Reflux condenser shall be provided over reactors/ vessels.	Complied.
c.	Pumps shall be provided with mechanical seals to prevent leakages	Complied. Mechanical seals pumps are provided in the unit to prevent the leakage.
d.	Air borne dust at all transfers operations/points shall be controlled either by spraying water or providing enclosures.	Complied. No such aspect (air borne dusty operation) is there in our plant. All the processes are being carried out in closed vessels only. The unit is taking adequate measures to control the air borne dust from the plant.
29.	Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx, HCl, Cl2, CO, NH3 and VOC shall be carried out in the impact zone and its records shall be	Complied. Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS)

	<p>maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.</p>	<p>covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEF&CC approved and NABL Accredited laboratory. All results are well within the prescribed limits. The results of the analysis are provided in the following table.</p> <p>Month-wise results of the various parameters are provided in the <u>Annexure-5</u>.</p> <p>Ambient Air Monitoring Report of Aug '24 is attached as <u>Annexure-6</u> for reference.</p>
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A. 4	SOLID/HAZARDOUS WASTE													
30.	All the hazardous/ solid waste management shall be taken care as mentioned below ;													
S. No.	Type of Hazardous Waste	Source of Generation				Hazardous Waste Category No.	Mode of Disposal	Compliance Status						
			Unit-II	Unit-II I	Total After Amendme nt on Unit II									
1	MEE/ evaporation Salt	ETP Plant	9490	1825	11315	35.3	Collection , Storage, Transportation & disposal to TSDF site/Co-pr ocessing	Complied. Hazardous waste disposal quantity is well within the given limit.						
	ETP Waste	ETP Waste	9807	0	12910									
		ETP Waste from Unit-III	3103	0										
								Silica	CaCl ₂ Process	19512	0	19512		
Complied. Hazardous waste disposal quantity is well within the given limit.														
<table><tr><th colspan="4">Silica Sludge</th></tr><tr><th>Month</th><th>Co-proce ssing</th><th>Landfilli ng</th><th>Total Quantity (MT)</th></tr><tr><td></td><td></td><td></td><td></td></tr></table>			Silica Sludge				Month	Co-proce ssing	Landfilli ng	Total Quantity (MT)				
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								<table><tr><td>Apr'24</td><td>20.9</td><td>347.71</td><td>368.61</td></tr><tr><td>May'24</td><td>0.00</td><td>392.45</td><td>392.45</td></tr><tr><td>Jun'24</td><td>0.00</td><td>0.00</td><td>0</td></tr><tr><td>Jul'24</td><td>0.00</td><td>0.00</td><td>0</td></tr><tr><td>Aug'24</td><td>0.00</td><td>0.00</td><td>0</td></tr><tr><td>Sep'24</td><td>0.00</td><td>22.10</td><td>22.1</td></tr><tr><td>Total</td><td>20.9</td><td>762.260</td><td>783.16</td></tr></table>	Apr'24	20.9	347.71	368.61	May'24	0.00	392.45	392.45	Jun'24	0.00	0.00	0	Jul'24	0.00	0.00	0	Aug'24	0.00	0.00	0	Sep'24	0.00	22.10	22.1	Total	20.9	762.260	783.16
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2	Used oil	Utility	40	6	46	5.1	Collection , Storage, Transportation, & Disposal by selling to registered re-processors.	<p>Complied. Hazardous waste disposal quantity is well within the given limit.</p> <table><tr><th colspan="2">Used Oil</th></tr><tr><th>Month</th><th>Quantity (MT)</th></tr><tr><td>Apr'24</td><td>0.00</td></tr><tr><td>May'24</td><td>3.29</td></tr><tr><td>Jun'24</td><td>0.00</td></tr><tr><td>Jul'24</td><td>0.00</td></tr><tr><td>Aug'24</td><td>0.00</td></tr><tr><td>Sep'24</td><td>0.00</td></tr><tr><td>Total</td><td>3.29</td></tr></table>	Used Oil		Month	Quantity (MT)	Apr'24	0.00	May'24	3.29	Jun'24	0.00	Jul'24	0.00	Aug'24	0.00	Sep'24	0.00	Total	3.29										
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3	Empty Barrels & Empty HDPE bags	R.M storage area	200	0	200	33.1	Collection , storage, transportation, decontamination & Disposal to Recycler/ TSDF/ sending back to raw material supplier/ Co-processing.	<p>Complied. Hazardous waste disposal quantity is well within the given limit.</p> <table><tr><th colspan="2">Empty Barrels & Empty HDPE bags, Discarded Containers /Bags</th></tr><tr><th>Month</th><th>Quantity (MT)</th></tr><tr><td>Apr'24</td><td>4.260</td></tr><tr><td>May'24</td><td>23.300</td></tr><tr><td>Jun'24</td><td>8.740</td></tr><tr><td>Jul'24</td><td>13.780</td></tr><tr><td>Aug'24</td><td>10.980</td></tr><tr><td>Sep'24</td><td>22.380</td></tr><tr><td>Total</td><td>83.44</td></tr></table>	Empty Barrels & Empty HDPE bags, Discarded Containers /Bags		Month	Quantity (MT)	Apr'24	4.260	May'24	23.300	Jun'24	8.740	Jul'24	13.780	Aug'24	10.980	Sep'24	22.380	Total	83.44										
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	Discarded Containers /Bags		100	240	340		Collection , storage, transportation, decontamination & Disposal to Recycler/ TSDF/ sending back to raw material supplier.																			
4	Distillation residue & waste	Process	1404	2700	4104	26.1	Collection , storage, transportation & disposal to incineration /Co-processing.	Complied. Hazardous waste disposal quantity is well within the given limit. <table><tr><th colspan="2">Distillation/Process Residue</th></tr><tr><th>Month</th><th>Quantity (MT)</th></tr><tr><td>Apr'24</td><td>340.660</td></tr><tr><td>May'24</td><td>317.730</td></tr><tr><td>Jun'24</td><td>717.000</td></tr><tr><td>Jul'24</td><td>309.250</td></tr><tr><td>Aug'24</td><td>268.870</td></tr><tr><td>Sep'24</td><td>123.370</td></tr><tr><td>Total</td><td>2076.88</td></tr></table>	Distillation/Process Residue		Month	Quantity (MT)	Apr'24	340.660	May'24	317.730	Jun'24	717.000	Jul'24	309.250	Aug'24	268.870	Sep'24	123.370	Total	2076.88
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5	Process residue	Process	12480	0	12480																					
6	Spent Catalyst	Hydrogenation process	444	54	498	26.5	Collection , storage, transportation & disposal to registered re-generator s/ TSDF site & (reuse for U-III)	Complied. Hazardous waste disposal quantity is well within the given limit. <table><tr><th colspan="2">Spent Catalyst</th></tr><tr><th>Month</th><th>Quantity (MT)</th></tr><tr><td>Apr'24</td><td>2.957</td></tr><tr><td>May'24</td><td>3.261</td></tr><tr><td>Jun'24</td><td>0.000</td></tr><tr><td>Jul'24</td><td>0.000</td></tr><tr><td>Aug'24</td><td>2.521</td></tr><tr><td>Sep'24</td><td>8.546</td></tr><tr><td>Total</td><td>17.29</td></tr></table>	Spent Catalyst		Month	Quantity (MT)	Apr'24	2.957	May'24	3.261	Jun'24	0.000	Jul'24	0.000	Aug'24	2.521	Sep'24	8.546	Total	17.29
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Sep'24	8.546																									
Total	17.29																									
7	Hydrochloric acid (HCl)	Scrubber	205620	23276	228896	B15 of Schedu.	Collection , storage,																			

						le-II	transportation & reused in manufacturing of CaCl2. OR sold to authorize actual end users having Rule 9 permission or (it will be neutralized and send for treatment to ETP, for U-III)	Hazardous waste disposal quantity is well within the given limit. <table><tr><th colspan="4">Hydrochloric acid (HCl)</th></tr><tr><th>Month</th><th>In-house utilization for manufacturing of CaCl2</th><th>Dispatched to actual end-user</th><th>Total Quantity (MT)</th></tr><tr><td>Apr'24</td><td>4676.620</td><td>805.870</td><td>5482.490</td></tr><tr><td>May'24</td><td>6899.959</td><td>325.470</td><td>7225.429</td></tr><tr><td>Jun'24</td><td>7858.637</td><td>533.830</td><td>8392.467</td></tr><tr><td>Jul'24</td><td>4712.686</td><td>1455.740</td><td>6168.426</td></tr><tr><td>Aug'24</td><td>6823.960</td><td>1590.460</td><td>8414.420</td></tr><tr><td>Sep'24</td><td>6384.770</td><td>655.880</td><td>7040.650</td></tr><tr><td>Total</td><td>37356.63</td><td>5367.25</td><td>42723.882</td></tr></table>	Hydrochloric acid (HCl)				Month	In-house utilization for manufacturing of CaCl2	Dispatched to actual end-user	Total Quantity (MT)	Apr'24	4676.620	805.870	5482.490	May'24	6899.959	325.470	7225.429	Jun'24	7858.637	533.830	8392.467	Jul'24	4712.686	1455.740	6168.426	Aug'24	6823.960	1590.460	8414.420	Sep'24	6384.770	655.880	7040.650	Total	37356.63	5367.25	42723.882
Hydrochloric acid (HCl)																																												
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Sep'24	6384.770	655.880	7040.650																																									
Total	37356.63	5367.25	42723.882																																									
8	Spent Sulphuric acid (H ₂ SO ₄)	Process	20856	56700	77556	B15 of Schedule-II	Collection, storage, transportation & sold to authorized actual end users having Rule 9 permission.	Complied. Spent Sulphuric acid waste is not generated & disposed off during the reporting period. Presently the unit is having partial CCA. The unit has applied for CCA Amendment inward no. 276574 dated 15.03.2023.																																				
9	Sodium Hydrochlorite (NaOCl)	Process	45084	0	45084	B15 of Schedule-II	Collection, storage, transportation & sold to authorized actual end users having Rule 9 permission.	Complied. Sodium Hypochlorite is not being generated during the reporting period.																																				
10	Sodium Chloride (NaCl)	Process	44160	0	44160	B15 of Schedule-II	Collection, storage, transportation & sold to authorized actual	Complied. Presently the Unit is having Partial CCA. NaCl is not being generated during the reporting period.																																				

							end users having Rule 9 permission/ TSDF site for landfill							
11	Ortho Nitro Phenol (ONP/ Para Nitro Phenol (PNP)	Process	492	0	492	--	Collection, storage, transportation & sold to authorized actual end users having Rule 9 permission.	Complied. Presently the Unit is having Partial CCA. Ortho Nitro Phenol (ONP/ Para Nitro Phenol (PNP) is not being generated during the reporting period.						
12	Nitrosyl Sulphuric Acid (NSA)	Process	17652	0	17652	B15 of Schedule-II	Collection, storage, transportation & sold to authorized actual end users having Rule 9 permission.	Complied. Presently the Unit is having Partial CCA. Nitrosyl Sulphuric Acid (NSA) is not being generated during the reporting period.						
13	Calcium Chloride Solution as brine	Process	120000	0	120000	Class C2 of Schedule-II	Collection, storage, transportation & sold to authorized actual end users having Rule 9 permission.	Complied. Calcium Chloride Solution as brine is not being generated during the reporting period.						
14	Spent Carbon	Process and ETP	1020	60	1080	36.2	Collection, Storage, transportation, sent for co-processing/ incineration	Complied. Hazardous waste disposal quantity is well within the given limit. <table><tr><th colspan="2">Spent Carbon</th></tr><tr><th>Month</th><th>Quantity (MT)</th></tr><tr><td>Apr'24</td><td>8.140</td></tr></table>	Spent Carbon		Month	Quantity (MT)	Apr'24	8.140
Spent Carbon														
Month	Quantity (MT)													
Apr'24	8.140													

								<table><tr><td>May'24</td><td>0.000</td></tr><tr><td>Jun'24</td><td>8.420</td></tr><tr><td>Jul'24</td><td>0.000</td></tr><tr><td>Aug'24</td><td>0.000</td></tr><tr><td>Sep'24</td><td>8.560</td></tr><tr><td>Total</td><td>25.12</td></tr></table>	May'24	0.000	Jun'24	8.420	Jul'24	0.000	Aug'24	0.000	Sep'24	8.560	Total	25.12
May'24	0.000																			
Jun'24	8.420																			
Jul'24	0.000																			
Aug'24	0.000																			
Sep'24	8.560																			
Total	25.12																			
15	Off-specification product	Process	25	120	145	26.1	Collection, Storage, Transportation disposal to Co-processing/ Incineration (Disposal at Co-processing is not for U-III)	Complied There is no generation and disposal of off-specification products during the reporting period.												
16	PPE's Waste, non-recyclable plastic waste	Operation waste	200	0	200	33.1	Collection, Storage, Transportation disposal to Land filling	Complied.												
17	Contaminated Cotton Waste, Paper Waste, Contaminated Woods	Operation Waste	150	4	154	26.1	Collection, Storage, Transportation disposal to incineration	Complied.												
18	Stripper TOP containing organic content	Stripper	1095	0	1095	26.1	Collection, Storage, Transportation disposal to incineration/ Co-Processing	Complied. Stripper TOP containing organic content is not being generated during the reporting period.												
19	Spent solvent	Process	35	0	35	26.1	Collection, Storage,	Complied.												

							Transportation disposal to incineration/Co-Processing or Approved Recycler.	Spent solvent is not being generated during the reporting period.																		
20	Scrub Liquid	From NOx Scrubber	0	350 KL/Year	350 KL/Year	--	Collection, Storage and treated at in-house ETP.	Complied. Presently the Unit is having Partial CCA. Scrub Liquid is not being generated during the reporting period.																		
21	Insulation Waste	Maintenance	0	24	24	-	Collection, Storage, Transportation disposal by at TSDF Site	Complied. Insulation waste disposal quantity is well within the given limit. <table><tr><th colspan="2">Insulation Waste</th></tr><tr><th>Month</th><th>Quantity (MT)</th></tr><tr><td>Apr'24</td><td>4.86</td></tr><tr><td>May'24</td><td>4.05</td></tr><tr><td>Jun'24</td><td>2.44</td></tr><tr><td>Jul'24</td><td>0.00</td></tr><tr><td>Aug'24</td><td>0.00</td></tr><tr><td>Sep'24</td><td>0.00</td></tr><tr><td>Total</td><td>11.35</td></tr></table>	Insulation Waste		Month	Quantity (MT)	Apr'24	4.86	May'24	4.05	Jun'24	2.44	Jul'24	0.00	Aug'24	0.00	Sep'24	0.00	Total	11.35
Insulation Waste																										
Month	Quantity (MT)																									
Apr'24	4.86																									
May'24	4.05																									
Jun'24	2.44																									
Jul'24	0.00																									
Aug'24	0.00																									
Sep'24	0.00																									
Total	11.35																									
22	Recycle Solvent	Process	212368	0	212368	26.1	Collection, Storage and utilized internal recovery in same process	Complied. Presently the Unit is having Partial CCA. Recycle Solvent is not being generated during the reporting period.																		
Details of Non-Hazardous waste & it's disposal (MSW and others):																										
1	Fly Ash	Use of Coal	56590	0	56590	Sale to Brick Manufacturers, Construction activities and other end users.	Complied. Fly Ash disposal quantity is well within the given limit. <table><tr><th colspan="2">Fly Ash</th></tr><tr><th>Month</th><th>Quantity (MT)</th></tr><tr><td>Apr'24</td><td>102.220</td></tr><tr><td>May'24</td><td>121.720</td></tr><tr><td>Jun'24</td><td>109.000</td></tr></table>		Fly Ash		Month	Quantity (MT)	Apr'24	102.220	May'24	121.720	Jun'24	109.000								
Fly Ash																										
Month	Quantity (MT)																									
Apr'24	102.220																									
May'24	121.720																									
Jun'24	109.000																									

							<table><tr><td>Jul'24</td><td>85.850</td></tr><tr><td>Aug'24</td><td>124.110</td></tr><tr><td>Sep'24</td><td>78.570</td></tr><tr><td>Total</td><td>621.47</td></tr></table>	Jul'24	85.850	Aug'24	124.110	Sep'24	78.570	Total	621.47										
Jul'24	85.850																								
Aug'24	124.110																								
Sep'24	78.570																								
Total	621.47																								
2	Office Waste	Admin/ Office	30	0	30	Collection, Storage, Transportation, Registered recyclers	Complied. Office waste is being disposed of along with Mix waste for co-processing to cement industries.																		
3	Insulation Waste	Plant and machinery	150	24	174	Collection, Storage, Transportation disposal by at TSDF Site.	Complied. Insulation waste disposal is given in Sr. no. 21 of condition no. 30 of A.4 section.																		
4	E-waste/ Electrical waste	Plant and machinery	25	1	26	Collection, Storage, Transportation, Disposal by selling to authorized recyclers	Complied. E-waste disposal quantity is well within the given limit. <table><tr><th colspan="2">E-waste</th></tr><tr><th>Month</th><th>Quantity (MT) sent to authorized recycler</th></tr><tr><td>Apr'24</td><td>0.00</td></tr><tr><td>May'24</td><td>0.00</td></tr><tr><td>Jun'24</td><td>0.00</td></tr><tr><td>Jul'24</td><td>0.00</td></tr><tr><td>Aug'24</td><td>0.00</td></tr><tr><td>Sep'24</td><td>5.53</td></tr><tr><td>Total</td><td>5.53</td></tr></table>	E-waste		Month	Quantity (MT) sent to authorized recycler	Apr'24	0.00	May'24	0.00	Jun'24	0.00	Jul'24	0.00	Aug'24	0.00	Sep'24	5.53	Total	5.53
E-waste																									
Month	Quantity (MT) sent to authorized recycler																								
Apr'24	0.00																								
May'24	0.00																								
Jun'24	0.00																								
Jul'24	0.00																								
Aug'24	0.00																								
Sep'24	5.53																								
Total	5.53																								
5	Battery waste	Plant and machinery	100 Nos.	0	100 Nos.	Collection, Storage, Transportation, Disposal by selling to authorized recyclers	Complied. Battery waste disposal quantity is well within the given limit. <table><tr><th colspan="2">Battery waste</th></tr><tr><th>Month</th><th>Quantity (MT) sent to authorized recycler</th></tr><tr><td>Apr'24</td><td>0.00</td></tr><tr><td>May'24</td><td>0.00</td></tr><tr><td>Jun'24</td><td>0.00</td></tr><tr><td>Jul'24</td><td>9.01</td></tr><tr><td>Aug'24</td><td>0.00</td></tr><tr><td>Sep'24</td><td>0.00</td></tr><tr><td>Total</td><td>9.01</td></tr></table>	Battery waste		Month	Quantity (MT) sent to authorized recycler	Apr'24	0.00	May'24	0.00	Jun'24	0.00	Jul'24	9.01	Aug'24	0.00	Sep'24	0.00	Total	9.01
Battery waste																									
Month	Quantity (MT) sent to authorized recycler																								
Apr'24	0.00																								
May'24	0.00																								
Jun'24	0.00																								
Jul'24	9.01																								
Aug'24	0.00																								
Sep'24	0.00																								
Total	9.01																								

6	Bio-medical waste	Occupational health center	1	0.5	1.5	Collection, Storage, Transportation, Disposal CBWTF-Incineration to	<div>Complied. Bio-medical waste disposal quantity is well within the given limit.<table><tr><th colspan="2">Bio-medical waste</th></tr><tr><th>Month</th><th>Quantity (Kg)</th></tr><tr><td>Apr'24</td><td>0.30</td></tr><tr><td>May'24</td><td>0.10</td></tr><tr><td>Jun'24</td><td>0.50</td></tr><tr><td>Jul'24</td><td>0.35</td></tr><tr><td>Aug'24</td><td>0.30</td></tr><tr><td>Sep'24</td><td>0.25</td></tr><tr><td>Total</td><td>1.80</td></tr></table></div>	Bio-medical waste		Month	Quantity (Kg)	Apr'24	0.30	May'24	0.10	Jun'24	0.50	Jul'24	0.35	Aug'24	0.30	Sep'24	0.25	Total	1.80
Bio-medical waste																									
Month	Quantity (Kg)																								
Apr'24	0.30																								
May'24	0.10																								
Jun'24	0.50																								
Jul'24	0.35																								
Aug'24	0.30																								
Sep'24	0.25																								
Total	1.80																								
7	Glass Waste	Plant/lab/Buildings	12	2	14	Collection, Storage, Transportation, disposal /sold to scrap processors	Complied. Glass waste is not generated during the reporting period.																		
8	STP Waste (Sludge)	STP	120	0	120	Collection, Storage, Transportation, Disposal as manure.	Complied. STP waste is being utilized internally as manure in horticulture.																		
31.	Authorized end-users shall have permissions from the concerned authorities under Rule 9 of Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016						Complied. Presently the Unit is generating HCl and internally utilizing the same for manufacturing of Calcium Chloride. In case of any breakdown in CaCl2 plant, unit is also selling it out to actual end-users having valid permissions from the concerned authorities under the Rule 9 and after executing MoU. Refer Annexure-20 for list of authorized end-users and MoU executed with them. Unit is also abiding by all the requirements prescribed in Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016. Presently the unit is having Partial CCA. Unit will also follow the same guidelines for other Hazardous waste as and when generated.																		

32.	Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of incinerable & landfill wastes before sending to CHWIF & TSDF site respectively.	Complied. Unit is already following the co-processing of hazardous waste as the most preferred mode of disposal wherever possible.
33.	The unit shall submit the list of authorized end user of hazardous waste along with MoU signed with them at least two months in advance prior to the commencement of production. In the absence of potential buyers of these items, the unit shall restrict the production of the respective items.	Complied. Presently the Unit is generating HCl and internally utilizing the same for manufacturing of Calcium Chloride. In case of any breakdown in CaCl ₂ plant, unit is also selling it out to actual end-users having valid permissions from the concerned authorities under the Rule 9 and after executing MoU. Refer Annexure-20 for list of authorized end-users and MoU executed with them. Unit is also abiding by all the requirements prescribed in Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016. Presently the unit is having Partial CCA. Unit will also follow the same guidelines for other Hazardous waste as and when generated.


A. 5	OTHER	
34	The project proponent shall allocate the separate fund of 2.5 Crore as committed before SEAC. The entire activities proposed under CER shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's no. F. No. 2265/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.	Complied. Kindly refer Annexure-21 for CSR/CER Activities carried out from Apr'24 to Sept'24.
35.	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s Jyoti Om Chemical Research Centre Pvt. Ltd. and submitted by project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.	Complied. All the recommendations / commitments made in the EIA report are being implemented.

B	GENERAL CONDITIONS
B.1	CONSTRUCTION PHASE

36.	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.	Complied. Unit has adopted best construction practices to safeguard the water consumption & reduce the demand.
37.	Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.	Complied. All construction materials are transported through tarpaulin covered trucks only. Regular water sprinkling is being done to control fugitive emission of dust.
38.	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	Complied. Adequate sanitary and hygienic measures has been provided at the site and will be maintained throughout the construction phase as per below: <ul style="list-style-type: none"> • Clean up of jobsite after major tasks or at least daily; • Avoiding the build-up of hazardous, flammable, or combustible materials. Keeping walkways, stairs, and work areas clear. • Separate bathroom facilities are provided for male and female workers on a job site. Washing facilities on the site are provided for workers to wash their hands and avoid cross-contamination before eating, drinking or heading home for the day. Hence, workers can wash away harmful substances and use the washing area to service and decontaminate personal protective equipment (PPE).
39.	First Aid Box shall be made readily available in adequate quantity at all the times.	Complied. First Aid Boxes are available at prominent locations in adequate quantity.
40.	The project proponent shall strictly comply with the Building and other Construction Workers (Regulation of Employment & Conditions of Service) Act,1996 and Gujarat rules made there and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.	Complied. The unit is strictly complying with the Building and other Construction Workers (Regulation of Employment & Conditions of Service) Act,1996 and Gujarat rules made there and their subsequent amendments.
41.	Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during the construction phase.	Complied. Monthly Ambient Noise monitoring is being conducted by a MoEFF&CC recognized and NABL accredited laboratory.


		Month-wise results of ambient noise monitoring are provided in the <u>Annexure-22</u> . Ambient Noise Monitoring Report of Aug'24 is attached as <u>Annexure-23</u> for reference.
42.	Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.	Complied. All the DG are provided with Acoustic Enclosures. Monthly Noise monitoring is being conducted by a MoEFF&CC recognized and NABL accredited laboratory. Month-wise results of the DG Set monitoring are provided in the <u>Annexure-17</u> . The results of the DG Set monitoring for Aug'24 are attached as <u>Annexure-24</u> .
43.	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.	Complied. Unit is sending all the generated domestic effluent to a dedicated sewage treatment plant located in the unit for proper treatment and solid waste is being properly collected, segregated and disposed of on regular frequency.
44.	All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.	Complied. All the top soil excavated during construction work is utilized in horticulture/ landscape development within the premises.
45.	Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during the construction phase shall not create adverse effect on neighbouring communities.	Complied. All the top soil excavated during construction work is utilized in horticulture/ landscape development within the premises.
46.	Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete (RMC) and lead free paints in the project.	Complied. Unit is using fly ash bricks, fly ash paver blocks for the construction purpose.
47.	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.	Complied. Unit is sending 100 % of fly ash generated from the plant to brick manufacturers. Fly Ash Return 23-24 & MOU with the brick manufacturer is attached as <u>Annexure-25</u> .


48.	"Wind - breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided. Individual building within the project site shall also be provided with barricades.	Complied. Temporary wind shielding along with barricades of adequate height had been provided along the periphery of the project site.
49.	"No uncovered vehicles carrying construction material and waste shall be permitted."	Complied. All construction materials are transported through tarpaulin covered trucks only. No uncovered vehicles carrying the construction material and waste are permitted in the plant.
50.	"No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left uncovered. Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."	Complied. All construction materials are transported through tarpaulin covered trucks only. No uncovered vehicles carrying the construction material and waste are permitted in the plant.
51.	Roads leading to or at construction site must be paved and blacktopped (i.e. - metallic roads).	Complied
52.	No excavation of soil shall be carried out without adequate dust mitigation measures in place.	Complied. No excavation of soil is being carried out without adequate dust mitigation measures in place. Utmost measures are being adopted to prevent dust at our construction sites before carrying out any excavation activity.
53.	Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.	Complied.
54.	Grinding and cutting of building materials in open area shall be prohibited.	Complied.
55.	Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.	Complied.
56.	Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).	Complied.
B.2	OPERATION PHASE	
B.2.1	WATER	
57.	Industry should provide separate dedicated washing area for hand washing/bathing of worker and the wastewater generated from the same should-be taken into ETP.	Complied. Industry has provided a separate dedicated washing area for hand washing/bathing of worker and the wastewater generated from the same is being taken into ETP.

58.	The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	<p>Complied.</p> <p>Unit receives water from the GIDC water supply. Water meters are installed and records are maintained.</p> 
59.	All efforts shall be made to optimize water consumption by exploring Best Available Technology(BAT). The unit shall continuously strive to reduce, recycle and reuse the treated effluent.	Complied.
B.2.2 AIR		
60.	In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with the spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.	<p>Not Applicable as the unit has not installed any spray dryer.</p> <p>The Unit has installed adequate & efficient air pollution control systems at other process vent & utility stack outlets to achieve the norms prescribed in the CC&A.</p>
61.	Acoustic enclosure shall be provided to the D.G. sets(If applicable) to mitigate the noise pollution and conform to the EPA Rules for air and noise emission standards.	<p>Complied.</p> <p>The unit has provided acoustic enclosure to all the DG Set to mitigate the noise pollution.</p>
62.	Stacks/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.	<p>Complied.</p> <p>The Unit has installed adequate & efficient air pollution control systems at other process vent & utility stack outlets to achieve the norms prescribed in the CC&A.</p>
63.	Flue gas emission & Process gas emission (If any) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&cc. At no time, emission level should go beyond the stipulated standards.	<p>Complied.</p> <p>Unit is following the norms for flue gas & process gas emission as per the norms</p>

		prescribed in the CC&A. The unit is carrying out stack analysis by a MoEF&CC recognised & NABL accredited laboratory. Refer compliance of condition 23 and 25 of A.3.
64.	All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	Complied. The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37 and the copy of the same is attached as <u>Annexure-7</u> for your reference.
65.	Adequate Air Pollution Control Measures [APCM] shall be provided.	Complied. Adequate APCM is provided to all process and flue gas stacks as recommended by GPCB.
66.	The unit shall adhere to Sector specific guidelines/ SOP published by GPCB / CPCB from time to time for effective fugitive emission control. The Project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	Complied. The unit will adhere to Sector specific guidelines/ SOP published by GPCB / CPCB from time to time for effective fugitive emission control.
67.	Unit shall take adequate measures to control odor nuisance from the industrial activities which may include measures like-use of masking agent with atomizer system (waler curtain), closed / automatic material handling system, containment of the odor vulnerable areas etc.	Complied. Odor control measures are in place to control odor nuisance from specific activities.
68.	Unit shall provide wall to wall carpeting in vehicle movement areas within premises to avoid dusting.	Complied.
B.2.3 HAZARDOUS/SOLID WASTE		
69.	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.	Complied. Unit is strictly complying with the regulatory norms & maintaining the records with regards to handling and disposal of Hazardous waste in accordance with the Hazardous & Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Unit is strictly complying with all the conditions stipulated in our CC&A No. AWH-119949, date of issue: 05/07/2022 and CC&A amendment no. H-119950, date of issue: 05/08/2022, CCA amendment AWH-126636 dated 28/06/2023 valid till 30/04/2029.
70.	Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	Complied.

		All the hazardous waste is stored in the designated storage area with a pucca bottom and proper leachate collection facility.
71.	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)	Complied. Unit has taken necessary permission from the nearby TSDF site and CHWIF. Membership Certificates are attached as <u>Annexure-26</u> .
72.	Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.	Complied. Unit is following the Motor Vehicle Act, 1988 and rules for the vehicles transporting hazardous waste. Waste is sent by Manifest System through Dedicated Hazardous waste vehicle with an active AIS-140 GPS system.
73.	The design of the Trucks/tankers shall be such that there is no spillage during transportation.	Complied.
74.	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	Complied. Unit is already following the co-processing of hazardous waste as a mode of disposal wherever possible.
75.	Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment from time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	Complied. Unit is sending 100 % of fly ash generated from the plant to brick manufacturers. Fly Ash Return 23-24 & MOU with the brick manufacturer is attached as <u>Annexure-25</u> .
76.	unit shall carry out transportation of hazardous wastes through GPS mounted vehicles only for disposal at TSDF/CHWIF, co-processing and end-users having Rule-9 permission.	Complied. Unit is sending the Hazardous waste in a vehicle which has an AIS 140 GPS system.
77.	The by-products which fall under the purview of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 shall be handled as per the said rules and necessary permissions from the concern authority shall be obtained.	Complied.
78.	Unit shall submit the list of authorized end users of above mentioned wastes along with MoU Signed With them at least two months in advance prior to commencement of production. In absence of potential buyers of these items, the unit shall restrict the production of respective item.	Complied. Unit has submitted the list of authorized end user of hazardous waste along with MoU signed with them to the board on XGN portal.
79.	Industry shall dispose its hazardous wastes through co-processing, pre-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement)	Complied.

	Rules, 2016.	Unit is already following the co-processing of hazardous waste as a mode of disposal wherever possible.
B.2.4	SAFETY	
80.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.	Complied. Unit has obtained a valid Factory License (License No. 15402, valid upto 31 st December, 2025). Factory License is attached as <u>Annexure-9</u> for reference.
81.	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.	Complied. The company is strictly complying with the rules and regulations under Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended. Following measures are taken: <ul style="list-style-type: none"> ● PESO License obtained from DISH ● Plan approval from DISH ● Factory license obtained from DISH ● MSDS for all chemicals ● A mutual aid agreement to render all emergency services. ● On site emergency plan (attached as <u>Annexure-27</u>) and offsite mutual aid. (attached as <u>Annexure-28</u>) ● PLI Policy (attached as <u>Annexure-29</u>)
82.	Main entry and exit shall be separate and clearly marked in the facility.	Complied. Main entry and exit of plant premises are separate.  <p style="text-align: center;">Manpower Entry/Exit Gate</p>

		 <p style="text-align: center;">Vehicle Entry/Exit Gate</p>
83.	Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.	<p>Complied.</p> <p>A clear margin excluding greenbelt has been provided for free movement of fire tender/ emergency vehicles around the premises.</p>
84.	Storage of flammable chemicals shall be sufficiently away from the production area.	<p>Complied.</p> <p>Dedicated storage facility of flammable chemicals provided at safer distance from production area as per PESO approval.</p>
85.	Sufficient number of fire extinguishers shall be provided near the plant and storage area.	<p>Complied.</p> <p>Sufficient no. of fire extinguishers are provided near the plant and storage area.</p>
86.	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 necessary precautionary measures are taken to avoid any kind of accident during storage and handling of toxic/hazardous chemicals. HAZOP and Risk assessment system is in place. Induction/Refresher/specific training system is carried out on a regular basis for all employees.</p> <p>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.</p>
87.	All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	<p>Complied.</p> <p>All the toxic/hazardous chemicals are stored in optimum quantity and all necessary permissions in this regard are obtained before</p>

		commencing the expansion activities. Maintaining the storage concept.
88.	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	Complied. Unit is strictly complying with all the mitigation measures and safeguards that are suggested in the Risk Assessment report.
89.	Only flame proof electrical fittings shall be provided in the plant premises.	Complied. Only flameproof electrical fittings are provided in the plant premises. Unit has carried out Hazardous area classification through an external competent agency i.e Vision Power Facts, Mumbai. The cover page of the same is attached as <u>Annexure-12</u>
90.	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.	Complied. Unit is ensuring minimum storage of hazardous chemicals. Most of our raw materials are handled through small capacity tanks/containers.
91.	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.	Complied. <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.
92.	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	Complied. Unit strictly follows all the standards for handling and pumping or vacuum transfer of chemicals for reduction of human exposure.
93.	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	Complied Unit has tie up with nearby health care units. (Jayaben Modi Hospital, 32 Kms)

		<p>Furthermore, Mutual Aid Agreement is done with neighboring industries for mutual help in the case of emergency.</p> <div><div><p>AGREEMENT FOR MUTUAL AID</p><p>This agreement is made at Jhagadia industrial estate, Jhagadia, Dist. Bhadrach on 1st November 2018 between the following companies.</p><table><thead><tr><th>Sr No.</th><th>Name of the company</th><th>Address for communication</th></tr></thead><tbody><tr><td>1</td><td>UPLIM (INDIA) LTD.</td><td>UPL LTD. Plot no. 145, P.O. GIDC, Jhagadia Dist. Bhadrach State Gujarat</td></tr><tr><td>2</td><td>DCM SHIRAM LTD.</td><td>DCM SHIRAM LTD. Unit Bhuvan Arora & Chemicals Plot no. 145, GIDC Industrial Estate, Jhagadia Dist Bhadrach State Gujarat</td></tr><tr><td>3</td><td>LAUREUS INDUSTRIES PVT. LTD.</td><td>Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat</td></tr><tr><td>4</td><td>Vadhaman Regalia Ltd.</td><td>Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat</td></tr><tr><td>5</td><td>CAJUT CHUBANI INDUSTRIES LTD.</td><td>Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat</td></tr><tr><td>6</td><td>SHARDA SPECIALITY INDUSTRIES LTD.</td><td>Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat</td></tr><tr><td>7</td><td>LAUREUS INDUSTRIES PVT. LTD.</td><td>Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat</td></tr><tr><td>8</td><td>Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat</td><td>Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat</td></tr><tr><td>9</td><td>Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat</td><td>Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat</td></tr><tr><td>10</td><td>ANANT INDUSTRIES LTD.</td><td>Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat</td></tr></tbody></table></div><div><p>MUTUAL AID AGREEMENTS</p><p>AS PER GUIDELINES OF FACTORIES ACT AND RULES OF INDUSTRIAL SAFETY AND HEALTH, THE SIGNATORIES OF THIS LETTER AGREE TO EXTEND MUTUAL HELP TO EACH OTHER DURING THE PERIOD OF THE TIME OF EMERGENCY ARISING DUE TO FIRE, GAS LEAK, EQUIPMENT AND NATURAL CALAMITIES.</p><p>WE AGREE TO PROVIDE EQUIPMENT AND MANPOWER FOR EMERGENCY AND FIRST AID AND ALSO TO SHARE RESOURCES FOR FIRST AID, MEDICAL TREATMENT, INVESTIGATION, CONFINEMENT AND CLEANUP. THE COST OF SUPPLYING AND FIRST AID, AND CONFINEMENT SHALL BE SHARED EQUALLY BY ALL THE SIGNATORIES.</p><p>WE AGREE TO PROVIDE FIRST AID AND OTHER INFORMATION RELATED TO EMERGENCY PREPAREDNESS TO EACH OTHER IN A QUARTERLY BASIS.</p><p>FOR UPLIM (INDIA) LTD.</p><p>FOR DCM SHIRAM LTD.</p><p>FOR LAUREUS INDUSTRIES PVT. LTD.</p><p>FOR VADHAMAN REGALIA LTD.</p><p>FOR CAJUT CHUBANI INDUSTRIES LTD.</p><p>FOR SHARDA SPECIALITY INDUSTRIES LTD.</p><p>FOR LAUREUS INDUSTRIES PVT. 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company	Address for communication	1	UPLIM (INDIA) LTD.	UPL LTD. Plot no. 145, P.O. GIDC, Jhagadia Dist. Bhadrach State Gujarat	2	DCM SHIRAM LTD.	DCM SHIRAM LTD. Unit Bhuvan Arora & Chemicals Plot no. 145, GIDC Industrial Estate, Jhagadia Dist Bhadrach State Gujarat	3	LAUREUS INDUSTRIES PVT. LTD.	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat	4	Vadhaman Regalia Ltd.	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat	5	CAJUT CHUBANI INDUSTRIES LTD.	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat	6	SHARDA SPECIALITY INDUSTRIES LTD.	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat	7	LAUREUS INDUSTRIES PVT. LTD.	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat	8	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat	9	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat	10	ANANT INDUSTRIES LTD.	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat
Sr No.	Name of the company	Address for communication																																	
1	UPLIM (INDIA) LTD.	UPL LTD. Plot no. 145, P.O. GIDC, Jhagadia Dist. Bhadrach State Gujarat																																	
2	DCM SHIRAM LTD.	DCM SHIRAM LTD. Unit Bhuvan Arora & Chemicals Plot no. 145, GIDC Industrial Estate, Jhagadia Dist Bhadrach State Gujarat																																	
3	LAUREUS INDUSTRIES PVT. LTD.	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat																																	
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6	SHARDA SPECIALITY INDUSTRIES LTD.	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat																																	
7	LAUREUS INDUSTRIES PVT. LTD.	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat																																	
8	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat																																	
9	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat																																	
10	ANANT INDUSTRIES LTD.	Plot no. 145, GIDC, Jhagadia Dist. Bhadrach State Gujarat																																	

		<p>of Form-32 & 33 as prescribed in Gujarat Factory Rules are enclosed as an <u>Annexure-30</u>.</p> <p>Medical Examination of all company employees and contractual Employees was carried out in March 2024. including following medical tests.</p> <ul style="list-style-type: none">• General checkup (height, weight, pulse, BP etc)• Blood test (RBC, WBS, hemoglobin, platelets, blood group, differential count etc)• Urine test (physical, chemical and microbial examination etc)• Vision test• Pulmonary function test, etc. <p>Details of periodical health surveillance of the workers is given below:</p> <table><tr><th>Month of surveillance</th><th>Total no. of Person Examined</th></tr><tr><td>Apr'24</td><td>1487 (Employee) + 555 (Contract)</td></tr></table> <p>Records of Medical Check up are maintained.</p>	Month of surveillance	Total no. of Person Examined	Apr'24	1487 (Employee) + 555 (Contract)
Month of surveillance	Total no. of Person Examined					
Apr'24	1487 (Employee) + 555 (Contract)					
99.	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	Complied. Transportation of hazardous chemicals is being done as per the provisions of the Motor Vehicle Act.				
100.	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	Complied. Unit has implemented all the mitigation and recommendations mentioned in the EIA report.				
101.	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	Complied. Necessary permission has been taken from PESO. Factory Licence has been obtained from Factory Inspectorate (DISH), Govt. of Gujarat.				
102.	Effective safety precaution shall be taken for chemical storage, process handling and transportation hazard.	Complied Effective safety precautions are being taken for chemical storage, process handling and transportation hazards.				
103.	Unit shall prepare and implement SOP for safe operation of the works.	Complied				
104.	Comply the statutory provision of safety audit & its compliance report	Complied.				

		Safety audit report along with its compliance is being submitted to the DISH office regularly. The last safety report was submitted on 09.08.2024 which is attached as <u>Annexure-31</u> .
105.	Effective step shall be taken for prevention of fire, explosion & toxic release.	Complied Effective steps are being taken for prevention of fire, explosion & toxic release.
B.2.5 NOISE		
106.	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	Complied. Adequate measure are being taken to keep ambient noise well within the prescribed limits. Monthly Ambient Noise monitoring is being conducted by a MoEFF&CC recognized and NABL accredited laboratory. Month-wise results of ambient noise monitoring are provided in the <u>Annexure-22</u> . Ambient Noise Monitoring Report of Mar '24 is attached as <u>Annexure-23</u> for reference.
B.2.6 CLEANER PRODUCTION AND WASTE MINIMISATION		
107.	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.	Noted and will be complied

108.	<p>The company shall undertake various waste minimization measures such as :</p> <p>a. Metering and control of quantities of active ingredients to minimize waste.</p> <p>b. Reuse of by-products from the process as raw materials or as raw materials substitutes.</p> <p>c. Use of automated and close filling to minimize spillages.</p> <p>d. Use of close feed system into batch reactors.</p> <p>e. Venting equipment through vapour recovery system.</p> <p>f. Use of high pressure hoses for cleaning to reduce wastewater generation.</p> <p>g. Recycling of washes to subsequent batches.</p> <p>h Recycling of steam condensate.</p> <p>i. Sweeping / mopping of floor instead of floor washing to avoid effluent generation.</p> <p>j. Regular preventive maintenance for avoiding leakage, spillage etc.</p>	<p>Complied.</p> <p>Unit is undertaking all the measures for waste minimization.</p> <ul style="list-style-type: none"> • All the liquid ingredients are being charged through measure vessels and/or flow meters to control on quantity as per the stoichiometry. All the solid ingredients are charged after proper weighment only. All these meters and weighing machines are calibrated and records are maintained. • Recovered solvents are being used as raw material in further steps. • Filling is done on weighing balance manually but in controlled manner to minimize spillage. • All reactors are in close loop and connected with condensers. • All the reactors are equipped with vents/stacks, which are connected to either vapor recovery system consisting of condensers, ejector/vacuum pumps and/or scrubbers • Many equipment like reactors, condensers wherever necessary are being cleaned with high pressure sparger/jet to reduce waste water generation. • Preventive Maintenance of Equipment is being carried out as per Standard Operating Procedure.
B.2.7 GREEN BELT AND OTHER PLANTATION		
109.	<p>The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.</p>	<p>Complied.</p> <p>Presently the unit has developed Green Belt of approx. 14778 m² within the premises & approx 40428 m² is developed at revenue survey plot No. 122 with varieties of indigenous trees. Total 55206 m² i.e. 24.51% green belt area has been developed till date</p> <p>Unit has started developing the remaining green belt at revenue survey plot No. 123 & 109 (approx 22055 m²). After development of the remaining green belt, total green belt area would be 77261 m² . i.e 34.30% of the total plot area.</p>
110.	<p>Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.</p>	<p>Complied.</p>

		We are using a low-volume, low-angle sprinkler system for the green belt development within the premises.
B.3	OTHER CONDITIONS	
111.	SEAC has accepted that there will not be any additional pollution load after merger of the ECs.	Noted.
112.	New EC order should be based on the total combined statement with implementable conditions superseding the old ECs.	Noted.
113.	Wherever waste water or chemical water to be collected by tankers and transported to CETP etc. any diversion and disposal in open drainage (nallah) etc. causing human and environmental damage or loss will make it liable for action under the law.	Noted.
114.	All transport movement by tankers etc has to be done with maintenance of gate pass and logbook it should be verified by the inspection authorities.	Noted & Complied. All transport movement by tankers etc is done with maintenance of gate pass and logbook.
115.	Non-hazardous waste data shall be informed to GPCB time to time so as to make an assessment and tie-up with industry for generating sustainable power from the waste.	Complied.
116.	All chemical pharma industry etc. should ensure predictive and preventive maintenance of factory / boiler and reactive show as lo avoid incident bf fire and safety hazards	Complied.
117.	EMP should include STP and detail cost including maintenance, transportation of waste water to CETP / CMEE etc as well as transportation cost or transit cost.	Noted & Complied.
118.	In LDAR preventive and predictive maintenance plan.	Complied. Unit is adhering to internal guidelines for LDAR prepared based on the MoEF notification G.S.R.186 (E): Fugitive emission.
119.	In LDAR leakage component, source of equipment leak, detention method should be given in table form.	Complied. Unit is adhering to internal guidelines for LDAR prepared based on the MoEF notification G.S.R.186 (E): Fugitive emission.
120.	In storage, component should be shown separately in terms whether inflammable, toxic, corrosive, reactive etc.	Complied.
121.	In case of Fly Ash generation its management and disposal should be as per Government of india Notification and 100% utilization should be ensured.	Complied. Unit is sending 100 % of fly ash generated from the plant to brick manufacturers. Fly Ash Return 23-24 & MOU with the brick manufacturer is attached as <u>Annexure-25</u> .

122.	Project proponent (PP) shall install CEMS continuous Emission Monitoring System in line to CPCB directions to all SPCB vide letter no. & 29016/04/06PCl-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB/CPCB on real time bases. [For small/Large/Medium (Red category) & whichever (Air emission & Effluent discharge) is applicable.	Complied. The unit has installed and connected required OCEMS to CPCB & GPCB for continuous monitoring of effluent discharge. Screenshots of the CPCB & GPCB portal are attached as <u>Annexure-4</u>
123.	Project proponent shall install all environment management systems as per the CPCB/GPCB directives regarding the effluent discharge and air emission in working condition.	Complied. All environment management systems are installed as per the CPCB/GPCB directives regarding the effluent discharge and air emission in working condition.
124.	Project proponent shall display the copy of Environment Clearance at the site prominently.	Complied.
125.	Project proponent shall prepare and follow regular and preventive maintenance plan. The copy of same shall be submitted to SEIAA.	Complied.
126.	Project Proponent will have to display the safety procedure in working area.	Complied.
127.	The project proponent shall obtain all required permissions for safety, health and fire from competent authorities like PESO/Fire Authority etc. and intimate SEIAA.	Complied.
128.	Project Proponent will intimate SEIAA/SEAC/GPCB after obtaining the membership of common facilities like CETP /TSDF / CHWIF / CMEE / Common Spray Dryer as the case may be.	Complied.
129.	Extra care will be taken by PP to avoid any accidental blast in boiler, reactor or any machinery in the plant.	Complied.
130.	Environment monitoring, training and disaster management plan should be undertaken and complied at regular interval.	Complied. Environment monitoring, training and disaster management plan is being undertaken and implementation is ensured at regular intervals.
131.	Integrated Regional Office of MoEF&CC,Gandhinagar and GPCB will monitor all environment, safety & health norms as per the prevailing rules.	Noted.
132.	The PP has to maintain the logsheets / registers / manifest / gate pass for discharge through tankers and SCADA system for pipeline discharge for the waste water generation and its disposal data and submit to the GPCB every quarter. quarter. GPCB shall verify the same on regular basis and inform SEIAA and take legal action in case of non compliance.	Complied.

133.	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum published by MoEF&CC	Noted
133.	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF& CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no XX)	Complied.
134.	The provisions of the Solid Waste Management Rules 2016, e waste (management) Rules, 2016, the Construction and Demolition Waste management Rules, 2016 and the Plastics Waste management Rules, 2016 shall be followed.	Complied.
135.	Rainwater harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.	Complied. Unit assures to provide rain water harvesting at all possible locations & shall reuse the water after pre-treatment.
136.	The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.	Complied. Unit will 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 Government / GIDC.
137.	Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.	Complied. Unit has installed Solar panels at appropriate locations within the premises.
138.	The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.	Complied. Dedicated green belt area is embarked for plantation.
139.	All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.	Complied. Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
140.	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.	Complied. Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for

		the purpose of environmental protection and management.
141.	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.
142.	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority,	Noted & Complied Unit is adhering to stipulations of Gujarat Pollution Control Board.
143.	During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	Complied. Unit has provided a garland drain to avoid spillage mixing with stormwater.
144.	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	Complied. Pucca flooring is provided in the areas of chemical handling to prohibit soil contamination.
145.	Leakages from 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.
146.	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	Complied. The unit will take EC amendment if further expansion or modifications in the plant.
147.	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.	Complied. Unit has complied with all the requirements as per the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous & Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
148.	The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014 and its amendments from time to time in a letter and spirit.	Complied. The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas. Kindly refer <u>Annexure-21</u> for CSR/CER Activities carried out from Apr'24 to Sep'24.
149.	The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and	Complied.

	safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	Unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report.
150.	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
151.	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	Complied. Unit has informed 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. The advertisement was published in Times of India Edition (in English) and Narmada Bhaskar (in Gujarati) on 07 th June 2022. Copy of the same is attached as <u>Annexure-32</u> .
152.	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	Complied. Unit is submitting the six monthly compliance report regularly. Last compliance report was submitted on 30.05.2024 for the period of Oc-'23 to March-24 on PARIVESH portal. Copy of the same is attached as <u>Annexure-33</u> .
153.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted. Unit assures the authority that no False/Fabricated data has been submitted herewith.
154.	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Complied Unit is adhering to stipulations of Gujarat Pollution Control Board.
155.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted.
156.	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	Complied. Unit is implementing these conditions in a time bound manner.
157.	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.	Not Applicable as the Unit has not taken any loan from any bank. The project was self financed.

158.	This environmental clearance is valid for seven years from the date of issue.	Noted.
159	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
160	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance canceled.	Noted. Unit assures the authority that no False/Fabricated data has been submitted herewith.
B.4	COMPLIANCE OF ENVIRONMENT CLEARANCE/REPORTING/ADMINISTRATION/APPEAL:	
161.	Project proponent shall inform to all the concerned authorities including Municipal Corporation and District Collector and shall also give wide publicity through advertisement in minimum two local newspapers within seven days, about the Environment Clearance order accorded.	Complied. Unit has informed 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. The advertisement was published in Times of India Edition (in English) and Narmada Bhaskar (in Gujarati) on 07 th June 2022. A copy of the same is attached as <u>Annexure-32</u> .
162.	Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent From the responsibility of compliance. Any change in key person shall immediately be informed to SEIAA and all concern authorities.	Complied
163.	Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.	Complied. Unit is submitting the six monthly compliance report regularly. Last compliance report was submitted on 30.05.2024 for the period of Oc-'23 to March-24 on PARIVESH portal. Copy of the same is attached as <u>Annexure-33</u> .
164.	The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliance of environment clearance conditions.	Noted.
165.	In case of violation reported upon, the project proponent shall be responsible for all the legal actions as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the Environment Clearance accorded.	Noted.
166.	Any person including the project proponent affected by this Environment Clearance order may file appeal to the Honorable National	Noted.

	Green Tribunal West Zone branch, Pune, preferably within a period of thirty days from the date of issue of Environment Clearance as prescribed under section 16 of National Green Tribunal Act 2010.	
167.	All complaints and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses (a)msseiaagj@gmail.com& (b) seacgujarat@gmait.com	Noted.

Annexure-1

**Environment Compliance Report of
EC File No. SEIAA/GUJ/EC/5(f)/1161/2021
Dated 02/07/2021**

Environment Clearance Compliance report for period October 23 to March 24

File No.: SEIAA/GUJ/EC/5(f)/1161/2021 Dated 02/07/2021

Sr. No:	Name of the Products	CAS No:	Capacity in MT / Year			End use of Products	Compliance
			As per existing EC	Proposed increase / decrease capacity	Total after expansion		
1	Hydrogen Gas	1333-74-0	3000 Nm3/Hr	0	3000 Nm3/Hr	Used in hydrogenation and reduction, preparation of AIPs such as anti-pyretic, anti-histaminic, anti-inflammatory, etc.	Complied. Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/1470/2022. The production quantity is well within the permitted capacity.
2	Purification of O/P/M Phenylene Di Amine	-	18000	0	18000	Dyes, Dye intermediates, Basic pharma intermediates, Pigments, Polymer	
3	Calcium Chloride (Solid)	10043-52-4	72000	48000	120000	Oil exploration and used for Brine solution	

I.A	Group I.A - Chlorination Products and Its Derivatives: 90000 MT/ Year						
1	Mono Chloro Benzene (MCB) Either / OR	108-90-7	72000	18000	90000	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	Complied. Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/14 70/2022. The production quantity is well within the permitted capacity.
2	Ortho Di Chloro Benzene (ODCB)/ Para di Chloro Benzene (PDCB)/ Meta Di Chloro Benzene (MDCB) Either / OR	95-50-1/ 106-46-7/ 541-73-1					
3	123/ 124 Tri Chloro Benzene (TCB) Either/ OR	87-61-6/ 120-82-1					
4	Ortho Chloro Toluene (OCT)/ Para chloro toluene (PCT) Either/ OR	95-49-8/ 106-43-4					
5	2- Chloro 4- Nitro Toluene Either/ OR	121-86-8					
6	6- Chloro 2- Nitro Toluene / 4-Chloro 2-Nitro Toluene Either/ OR	83-42-1/ 89-59-8					
7	Crude of All above Group I.A (Sr. No: 1-6 Chlorination products)	--	0	90000			
I.B	Group I.B- Chlorination Products and Its Derivatives: 7200 MT/Year						
1	2,4,6 Tri Chloro Aniline (TCAN) Either/OR	634-93-5	72000	-64800	7200	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	Complied. Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/14 70/2022. The production quantity is well within the permitted capacity.
2	2,6 Di Chloro Para Nitro Aniline (2,6 DCPNA) Either/OR	99-30-9	0	7200			
3	2,4 Di Chloro Ortho Nitro Aniline (2,4 DCONA) Either/OR	2683-43-4					
4	2, 4 Di Chloro Aniline Either/OR	554-00-7					

5	Crude of All above Group 1. B (Sr. No. 1-4 Chlorination products)	--					
II.A	Group II.A- Hydrogenated Products and Its Derivatives: 60000 MT/Year						
1	Ortho Toluidine/ Para Toluidine/ MetaToluidine Either/OR	95-53-4/ 0/ 0	36000/ 0/ 0	2400/ 60000/ 60000	60000	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	Complied. Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/14 70/2022. The production quantity is well within the permitted capacity.
2	Meta Chloro Aniline /Ortho Chloro Aniline / Para Chloro Aniline Either/OR	108-42-9/ 95-51-2/ 106-47-8	36000	24000			
3	3,4 Di Chloro Aniline / 2,3 Di Chloro Aniline / 2,5 Di Chloro Aniline Either/OR	95-76-1/ 608-27-5/ 95-82-9					
4	2,4 Di Chloro Aniline / 2,6 Di Chloro Aniline / 4,5 Di chloro Aniliné Either/OR	554-00-7/ 608-31-1/ 626-43-7					
5	3,4 Di Amino Di Phenyl Ether / 4,4 Di amino Di phenyl Ether Either/OR	2657-87-6/ 101-80-4					
6	Ortho Anisidine/ Para Anisidine/ Meta Anisidine Either/OR	90-04-0/ 104-94-9/ 536-90-3					
7	Chloro Fluoro Aniline Either/OR	367-21-5	36000				
8	Ortho Cumidine / Para Cumidine / Meta Cumidirie Either/OR	643-28-7/ 99-88-7/ 5369-16-4					
9	ToluidinesEither/OR	95-53-4					
10	Aniline/ Either/OR	82-53-3					
11	Para Fluoro Aniline / Meta Fluoro Aniline / Ortho Fluoro Aniline Either/OR	371-40-4/ 372-19-0/ 348-54-9					
12	1, 3 Di Fluoro Aniline/ 2,4	367-25-9	36000/ 0	24000/ 60000			

	Di Fluoro Aniline Either/OR						
13	1,3 Di Fluoro Benzene Either/OR	072-18-9	36000	24000			
14	4-Fluoro-N- isopropyl Aniline Either/OR	70441-63-3					
15	4-Chloro-N- Isopropyl Aniline Either/OR	770-40-1					
16	2,3,4 Tri Fluoro Aniline Either/OR	3862-73-5	0	60000			
17	Crude of All above Group II. A (Sr. No. 1- 16 Hydrogenation products)	--					

II.B	Group II.B- Hydrogenated Products and Its Derivatives: 36000 MT/Year						
1	2,4,5 Tri Chloro Aniline Either/OR	636-30-6	36000	0	36000	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	Complied. Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/147 0/2022. The production quantity is well within the permitted capacity.
2	Meta Phenylene Di Amine/ Ortho Phenylene Di Amine/ Para Phenylene Di Amine Either/OR	108-45-2/ 95-54-5/ 106-50-3					
3	Para Amino Phenol/ Meta Amino Phenol Either/OR	123-30-8/ 591-27-5					
4	Crude of All above Group II. B (Sr. No.1-3 Hydrogenation products)	--	0	36000			
III	Nitration Products nd Its Derivatives: 24000 MT/Year (expect 4NPI-12000 MT/Year)						
1	3,4 Di Chloro Nitro Benzene/ 2,5 Di Chloro Nitro Benzene/ 2,3 Di Chloro Nitro Benzene Either/OR	99-54-7/ 89-61-2/ 3209-22- 1	24000	0	24000	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.

2	2,4,5 Tri Chloro Nitro Benzene/ 2,3,4 Tri Chloro Nitro Benzene Either/OR	89-6e-0/17700-09-03					
3	Crude of All above Group III. (1-2 Nitration products)	--	0	24000			
4	4-Nitro N-methyl Phthalimide (4NPI) Either/OR	41663-84-7	24000	-12000	12000		
5	Crude of 4-Nitro N-methyl Phthalimide (4NPI)	--	0	12000			
IV	Nitro Anisoles Products and Its Derivatives: 14400 MT/Year						
1	Ortho Nitro Anisole Either/OR	91-23-6	14400	0	14400	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products
2	Para Nitro Anisole Either/OR	100-17-4					
3	Crude of All above Group IV. (1-2 Nitro Anisol products)	--	0	14400			
V	De-Nitro Chlorination Products and Its Derivatives: 14400 MT/Year						
1	2,6 Di Chloro fluoro Benzene Either/OR	2268-05-05	14400	0	14400	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	Complied. Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/1470/2022. The production quantity is well within the permitted capacity.
2	2,6 Di Chloro Benzo nitrile Either/OR	1194-65-6					
3	Meta Di chloro Benzene Either/OR	541-73-1					
4	2,4 Di fluoro Chloro Benzene Either/OR	1435-44-5					
5	2,4 Di chloro Fluoro Benzene Either/OR	1435-48-9					
6	1.3 Dichloro 4,6 Difluorc Benzene/ 1,5 Dichloro 2,4 Difluoro Benzene Either/OR	2253-30-7					
7	Crude of All above Group V (Sr. No. 1-6 De Nitro Chlorination products)	--	0	14400			

VI	DAPBI 2. (4-amino phenyl) - 1 H- benzo (d) imidazol - 5- amine	7621-86-5	0	756	756	Polymer	
VII	Concentrated Nitric Acid from Dilute Nitric Acid (CNA from DNA)	7697-37- 2	0	108000	108000	Various applications in chemical industries.	
	Total		3000 NM3/Hr + 250800 MT/Annum	242256 MT/Ann um	3000 Nm3/Hr + 492756 MT/An num		
By-Products							
1	Steam (By product)	--	136.56 KL/Day	0	136.56 KL/Day		Complied. Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/147 0/2022. The By-product generation is well within the permitted capacity.

A	CONDITIONS	
A.1	SPECIFIC CONDITION	Status
1	Unit shall install CEMS (Continuous Emission Monitoring System) in line to CPCB directions to all SPCB vide letter no. B-29016/04/06PCI-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB/CPCB on real time basis. (For small/Large/Medium (Red Category) and Whichever (Air emission and Effluent discharge) is applicable].	Complied. The unit has installed and connected required OCEMS to CPCB and GPCB for continuous monitoring of effluent discharge. Please refer to the compliance of condition no. 6 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

2	All measures shall be taken to prevent soil and groundwater contamination.	<p>Complied.</p> <p>Please refer to the compliance of condition no. 10 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
3	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16 th November, 2009 shall be complied with.	<p>Complied.</p> <p>Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEFandCC approved and NABL Accredited laboratory. All results are well within the prescribed limits.</p> <p>Please refer to the compliance of condition no. 7 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
4	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G. S. R. (E) dated 21/07/2010 and amended from time to time shall be followed.	<p>Complied.</p> <p>The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37.</p> <p>Please refer to the compliance of condition no. 8 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
5	Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants and shall carry out the project development in accordance and consistency with the same.	<p>Complied.</p> <p>Unit is complying with the area specific policies of GPCB with respect to the discharge of pollutants.</p>

6	The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.	Complied Unit is adhering to stipulations of Gujarat Pollution Control Board.
7	The PP shall develop green belt within premises (26,257 Sq m (14.39 percentage) within premises + 34,153 Sq. m (18.71percentage) at plot having survey No: 122 GIDC Jhagadia equal Total 60,410 i.e. 33.10 percentage of the total plot area) as committed before SEAC. Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.	Complied. The unit has developed Green Belt as per CPCB guidelines within as well as outside the premises and will be continuing necessary activities to continue raising the green belt area. Please refer to the compliance of condition no. 109 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

8	Safety and Health	
a	PP shall obtain PESO permission for the storage and handling of hazardous chemicals.	Complied. Dedicated storage facility of flammable chemicals provided at safer distance from production area as per PESO approval. Please refer to the compliance of condition no. 12(a) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
b	PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U.	Complied. Unit has provided an Occupational Health center within the site as per the provision under the Gujarat Factories Rule 68-U and the same is being operated under the supervision of a qualified Factory Medical Officer (FMO) and nurses. Please refer to the compliance of condition no. 12(b) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
c	PP shall obtain fire safety certificate / Fire No-Objection certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.	Complied. Unit has obtained a valid Factory License. Please refer to the compliance of condition no. 12(c) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
d	Unit shall adopt functional operational process automation system including emergency response to eliminate risk associated with the hazardous processes.	Complied. Unit has adopted an operational process automation system like DCS for operation, monitoring and control. Other auxiliary systems are also controlled through PLC and SCADA

		(wherever required). Additionally, process safety devices like PSVs (Pressure safety valves), safety interlocks, emergency on/off buttons, LEL detectors, automatic sprinkler systems etc are integral part of automation systems for early detection of emergency and eliminating the risk.
e	PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident.	Complied. Unit regularly conducts mock drills within the premises. Please refer to the compliance of condition no. 12(e) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
f	PP shall install adequate fire hydrant system with foam trolley attachment within premises and separate storage of water for the same shall be ensured by PP.	Complied. Unit has adequately provided fire hydrant system with dedicated Fire Water Storage. Please refer to the compliance of condition no. 12(f) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
g	PP shall take all the necessary steps for control of storage hazards within premises ensuring incompatibility of storage raw material and ensure the storage keeping safe distance as per the prevailing guidelines of the concerned authority.	Complied. All materials are stored as per approved compatibility matrix. Moreover, dedicated storage facility of flammable chemicals and hazardous chemicals provided at safer distance from production area as per PESO approval.
h	PP shall take all the necessary steps for human safety within premises to ensure that no any harm is caused to any worker/employee or labor within premises	Complied. All measures are being taken to avoid any accidents. Mandatory use of appropriate PPEs like Safety shoes, Safety goggles, Helmet, gloves, cartridge mask, ear plug/muff etc. is ensured so that no harm is caused to any worker/employee.
i	Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.	Complied. Necessary flameproof fittings are provided in production plants as per the hazardous area classification. Please refer to the compliance of condition no. 12(i) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
j	Unit shall never store drum/barrels/carboys of incompatible material/chemical together.	Complied. All materials are stored as per approved compatibility matrix.

k	Unit shall provide effective Isolation for Process area and storage of hazardous chemicals.	Complied. Storage of flammable and hazardous chemicals is away from the production area.
l	Unit shall provide safety valve and rupture disc to the Hydrogenation vessel.	Complied. Unit has provided safety valve and rupture disc in all Hydrogenation vessel.
m	Unit shall provide chlorine leakage control emergency kit and FRP hood with scrubber system for chlorine safety.	Complied. Unit has provided FRP hood with scrubber system and emergency kit for controlling chlorine leakage and handling any emergency. Presently chlorine is supplied through pipelines.
n	Unit shall provide safety valve and rupture disc, as well as auto dump or auto quench/ suppress system for nitration vessel safety.	Complied. Unit shall provide safety valve and rupture disc, as well as auto dump or auto quench/ suppress system for nitration vessel safety during the installation of plant. Unit is yet to obtain CC&A for nitration products.

A.2	WATER	
9	Total water requirement for the project shall not exceed 7439.28 KLD. Unit shall reuse 2108.28 KLD of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 5331 KLD and it shall be met through GIDC water supply only. Prior permission from concerned authority shall be obtained for withdrawal of water.	Complied. The stated condition has been amended. Water Consumption is consumed by the unit in accordance with the compliance of condition no. 13 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
10	The industrial effluent generation from the project shall not exceed 2260 KLD.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 15 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

11	Industrial effluent shall be segregated into two streams (1) High COD and TDS effluent (2) Low COD and TDS effluent and it shall be managed as below.	
>	High COD and TDS effluent (1244 KLD):	
	1073 KLD, High COD and TDS effluent from process, washing, scrubber and reaction and 171 KLD, industrial effluent from M/s Aarti Industries Ltd (Unit-III) shall be treated in ETP consists of primary treatment units. Out of 1243 KLD treated effluent, 540 KLD shall be discharge in NCTL, pipeline and 703 KLD shall be further treated within premises	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 16 and 17 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
>	Low COD and TDS effluent (1719 KLD):	
	703 KLD, treated effluent, 956 KLD, Low COD effluent from utilities and 60 KLD, Industrial effluent from M/s Aarti Industries (Unit-III) shall be treated in RO. 1375 KLD, RO permeate shall be reused within premises and 344 KLD, RO reject shall be treated in MEE. 318 KLD, MEE condensate shall be reused within premises.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 16 and 17 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
12	Treated waste water shall be sent to M/s NCTL, pipeline only after complying with the inlet norms of common facilities prescribed by GPCB to ensure no adverse impact on Human Health and Environment.	Complied. The treated effluent is meeting the discharge norms sent to NCT-JPP pipeline for deep sea discharge.
13	Unit shall feed wastewater to in-house MEE only after ensuring content of effluent for COD/VOC so as not to get air borne during evaporation in order to achieve no adverse impacts on Environment and Human Health.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 18 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
14	Domestic wastewater generation shall not exceed 150 KL/day for proposed project and it shall be treated in STP. It shall not be disposed off through soak pit/ septic tank. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB or reused in process and cooling water.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 19 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

15	During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, it shall be reused within process and cooling tower. There shall be no discharge of waste water outside the premises in any case.	Complied. During the rainy season sewage generated from the domestic activities are treated in STP and used in cooling towers as a makeup water.
16	The unit shall provide metering facility at the inlet and outlet of ETP, RO, MEE and STP and maintain records for the same.	Complied. Please refer to the compliance of condition no. 21 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
17	Proper logbooks of ETP, RO, MEE and STP, recycle/ reuse of treated/ untreated effluent, chemical consumption in effluent treatment, quantity and quality of treated effluent, power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.	Complied. Unit is maintaining proper logbooks of ETP, STP, recycle/ reuse of treated/ untreated effluent, chemical consumption in effluent treatment, quantity and quality of treated effluent, power consumption. Please refer to the compliance of condition no. 22 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

A.3 AIR							
18	Unit shall not exceed fuel consumption for boilers, TFHs, HAGs and oxidizers and D G Set as mentioned below:						
Sr. No.	Source of emission with capacity	Stack Height (m)	Type of Fuel	Quantity of Fuel (MT/ Day)	Type of emission i.e. Air Pollutants	Air Pollution Control Measures (APCM)	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
1	DG Set 650 KVA (2 Nos.) Existing	11	HSD	7086 Lit/Hr.	Particulate matter SO2 NOx	Acoustic Enclosure	
2	DG Set 1010 KVA (7 Nos.) Existing + 3 Proposed)	11	HSD			Acoustic Enclosure	
3	DG Set 2500 KVA (4 Nos. Proposed)	11	HSD			Acoustic Enclosure	
4	DG Set 750 KVA (3 Nos. Existing)	11	HSD			Acoustic Enclosure	

5	DG Set 1500 KVA (2 Nos. Proposed)	11	HSD		Particulate matter SO2 NOx	Acoustic Enclosure	
6	Boiler 30 TPH (2 Nos. Existing)	52 m each	Coal	7.5 MT/Hr. For each Boiler		Lime addition along with coal +ESP	
7	Boiler 150 TPH (1 Nos. Proposed)	83	Coal	37.5 MT/Hr.		Lime addition along with coal +ESP	
8	Thermic Fluid Heater (Thermopack) 4 Lakh Kcal/Hr (1 No. -Proposed)	20 (For Coal) and 15 (For Natural Gas)	Coal/N G	0.2 MT/Hr/ 6 Nm3/Hr		Dust Collector, Cyclone Separator (For Coal)	
9	Thermic Fluid Heater (Thermopack) 40 Lakh Kcal/Hr (2 Nos.- Proposed)	34 m each	Coal	1.95 MT/Hr for Each		Bag Filter	
10	Hot Air Generator (For Calcium Chloride Dryer) - (1 No. Proposed)	33	Coal	8 MT/Hr.		Cyclone Separator, Bag filter and Water Scrubber	
11	Vent gas oxidizer - gl No. - Proposed)	30	Natural gas	41 Nm3/Hr.		--	
19	Unit shall provide adequate APCM with flue gas generation sources as mentioned above:					Complied. Unit has provided adequate APCMs in the existing flue gas generation sources and is achieving the norms as per standards mentioned in CC&A.	
20	Unit shall provide adequate APCM with process gas generation sources as mentioned below:						

Sr. No:	Specific Source of emission (Name of the product and process)	Type of emission	Stack/Vent Height (m)	Air Pollution Control Measures (APCM)	<p>Complied. The stated condition has been amended. Please refer to the compliance of condition no. 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. Unit has provided adequate APCMs in the existing process gas generation sources and is achieving the norms as per standards mentioned in CC&A.</p>
1	Reformer-Existing	CO	26	-	
2	CaCO ₃ Reactor-Existing	HCl	23	Alkali Scrubber	
3	CaCl ₂ Dryer vent–Existing	Particulate Matter	20	Cyclone separators and Wet Scrubber	
4	Chlorinator Reactor vent–Existing	HCl Chlorine	15	Falling film absorber followed by Alkali Scrubber	
5	Nitration Vessels–Existing NOx	NOx	15	Acidic Scrubber	
6	CLB-Cl ₂ scrubber-Proposed	Cl ₂	15	Single Stage, 10 % NaOH	
7	CLB - PDCB Scrubbers-Proposed	VOC	15	Single Stage, ODCB	
8	CLB - HCL Scrubber-Proposed	HCl	15	HCl absorber followed by caustic scrubber	
9	CLB - HCL Scrubber-Proposed	HCl	15	HCl absorber followed by caustic scrubber	
10	TCB - HCL Scrubber-Proposed	HCl	15	HCl absorber followed by caustic scrubber	
11	TCB - Cl ₂ Scrubber-Proposed	Cl ₂	15	Single Stage, 10percentage NaOH	
12	TCB - ODCB Scrubber-Proposed	VOC	15	Single Stage, ODCB	
13	DCPNA - HCL Scrubber-Proposed	HCl	15	HCl absorber followed by caustic scrubber	
14	DCPNA - Cl ₂ Scrubber-Proposed	Cl ₂	15	Single Stage, 10percentage NaOH	

15	DAPBI Process	HCl	15	Water Scrubber followed by Alkali Scrubber	
16	DAPBI Process	NH3	15	Acidic Scrubber	
17	ETP Scrubber	NH3	15	Acidic Scrubber	
21	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 and Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.				Complied. Please refer to the compliance of condition no. 26 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
	1. Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.				
	2. Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.				
	3. A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive and transport dust emission.				
22	Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.				Complied. The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37. Please refer to the compliance of condition no. 27 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
23	Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx, CO, HCl, Cl2, NH3 and VOCs shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.				Complied. Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEFandCC approved and NABL Accredited laboratory. All results are well within the prescribed limits. Please refer to the compliance of condition no. 29 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

A.4	SOLID / HAZARDOUS WASTE
24	All the hazardous/ solid waste management shall be taken care as mentioned below:

Sr. No:	Type of hazardous Waste	Source of Generation	Existing in MT/Y ear	Proposed (Increase or decrease) in MT/ Year	Total After Proposed Expansion in MT/Y	Hazardous Waste Category No:	Mode of Disposal	
1	MEE/evaporation Salt MEE salt	ETP Plant	50	9440	9490	35.3	Collection, storage, transportation and disposal at approved TSDF site	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
	ETP Waste		2880	6927	12910			
	ETP Waste	ETP Waste from Unit-III	0	3103				
	Silica	CaCl2 Process	10840	8672				
2	Used oil	Utility	18.4	21.6	40	5.1	Collection, Storage, Transportation, and Disposal by selling to registered re-processors	
3	Empty Barrels and Empty HDPE bags	R.M. storage area	33	167	200	33.1	Collection, storage, transportation; decontamination and Disposal to Recycler/ TSDF/ sending back to raw material supplier.	
	Discarded Containers/Bags		15	85	100		Collection,storage,transportor	

							tation,decontamination and Disposal to Recycler/TSD F/co-processing sending back to raw material supplier.	
4	Distillation residue and waste	Process	1404	0	1404	26.1	Collection, storage, transportation and disposal to incineration at TSD site/Co-processing.	
5	Process residue	Process	1613	10867	12480			
6	Spent Catalyst	Hydrogenation process	235	209	444	26.5	Collection, storage, transportation and disposal to registered re-generators / TSD site.	
7	Hydrochloric acid (HCL)	Scrubber	145272	60348	205620	B15 of Schedule-II	Collection, storage, transportation and reused in manufacturing	

							g of CaCl ₂ . OR sold to authorized actual end users having Rule 9 permission.	
8	Spent Sulphuric acid (H ₂ SO ₄)	Process	9300	11556	20856	B15 of Schedule- II	Collection, storage,trans portation and sold to authorized actual end users having Rule 9 permission.	
9	Sodium Hydrochlorite (NaOCl)	Process	0	45084	45084	B15 of Schedule- II	Collection, storage,trans portation and sold to authorized actual end users having Rule 9 permission.	
10	Sodium Chloride (NaCl)	Process	24828	19332	44160	B15 of Schedule- II	Collection, storage,trans portation and sold to authorized actual end users having Rule 9 permission/ TSDF site for landfill	
11	Ortho Nitro Phenol (ONP) Para Nitro Phenol (PNP)	Process	492	0	492	-	Collection, storage,trans portation and sold to authorized actual end users having Rule 9 permission.	

12	Nitrosyl/ Sulphuric Acid (NSA)	Process	0	17652	17652	B15 of Schedule- II	Collection, storage,trans portation and sold to authorized actual end users having Rule 9 permission.
13	Calcium Chloride Solution as brine	Process	0	120000	120000	Class C2 of Schedule- II	Collection, storage,trans portation and sold to authorized actual end users having Rule 9 permission.
14	Spent Carbon	Process and ETP	0	1020	1020	36.2	Collection, storage,trans portation and sent for Co-processin g/ incineration.
15	Off-specification product	Process	0	25	25	26.1	Collection, storage,trans portation and disposal to Co-processin g/ incineration .
16	PPE's Waste, non-recyclable plastic waste	Operatio n Waste	0	200	200	33.1	Collection, storage,trans portation and disposal to Land filling.
17	Contaminated Cotton Waste, Paper Waste, Contaminated Woods	Operatio n Waste	0	150	150	26.1	Collection, storage,trans portation and disposal to incineration /Co-processin g.

18	Stripper TOP containing organic content	Stripper	0	1095	1095	26.1	Collection, storage, transportation and disposal to incineration /Co-processing.	
19	Spent solvent	Process	0	35	35	26.1	Collection, storage, transportation and disposal to incineration /Co-processing or Approved Recycler.	
20	Recycle Solvents	Process	0	212368	212368	-	Collection, storage and utilize internal recovery in same process.	
25	Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.						Complied. Please refer to the compliance of condition no. 31 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.	
26	Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of Incinerable and land fillable wastes before sending to CHWIF and TSDF sites respectively.						Complied. Unit is already following the co-processing of hazardous waste as the most preferred mode of disposal wherever possible.	
27	The unit shall submit the list of authorized end users of hazardous wastes along with MoU signed with them at least two months in advance prior to the commencement of production. In the absence of potential buyers of these items, the unit shall restrict the production of the respective items.						Complied. Please refer to the compliance of condition no. 31 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.	

A.5	OTHER							
28	The project proponent shall allocate the separate fund of 2.5 Crore as committed before SEAC. The entire activities proposed under CER shall be part of the Environment Management Plan (EMP) as per the MoEFandCC's no. F. No. 2265/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report						Complied. The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas.	

	shall be submitted to the regional office of MoEFandCC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.	Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
29	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s Jyoti Om Chemical Research Centre Pvt. Ltd. and submitted by project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.	Complied. All the recommendations / commitments made in the EIA report are being implemented.

B	GENERAL CONDITIONS	
B.1	CONSTRUCTION PHASE	
30	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.	Complied. Unit has adopted best construction practices to safeguard the water consumption and reduce the demand.
31	Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.	Complied. All construction materials are transported through tarpaulin covered trucks only. Regular water sprinkling is being done to control fugitive emission of dust.
32	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	Complied. Adequate sanitary and hygienic measures has been provided at the site and will be maintained throughout the construction phase as per below: <ul style="list-style-type: none"> • Clean up of jobsite after major tasks or at least daily; • Avoiding the build-up of hazardous, flammable, or combustible materials. Keeping walkways, stairs, and work areas clear. • Separate bathroom facilities are provided for male and female workers on a job site. Washing facilities on the site are provided for workers to wash their hands and avoid cross-contamination before eating, drinking or heading home for the day. Hence, workers can wash away harmful substances and use the washing area to service and

		decontaminate personal protective equipment (PPE).
33	First Aid Box shall be made readily available in adequate quantity at all the times.	Complied. First Aid Boxes are available at prominent locations in adequate quantity.
34	The project proponent shall strictly comply with the Building and other Construction Workers (Regulation of Employment and Conditions of Service) Act,1996 and Gujarat rules made there and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.	Complied. The unit is strictly complying with the Building and other Construction Workers (Regulation of Employment and Conditions of Service) Act,1996 and Gujarat rules made there and their subsequent amendments.
35	Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.	Complied. Monthly Ambient Noise monitoring is being conducted by a MoEFFandCC recognized and NABL accredited laboratory. Please refer to the compliance of condition no. 41 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
36	Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.	Complied. All the DG are provided with Acoustic Enclosures. Monthly Noise monitoring is being conducted by a MoEFFandCC recognized and NABL accredited laboratory. Please refer to the compliance of condition no. 42 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
37	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.	Complied. Unit is sending all the generated domestic effluent to a dedicated sewage treatment plant located in the unit for proper treatment and solid waste is being properly collected, segregated and disposed of on regular frequency.
38	All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.	Complied. All the top soil excavated during construction work is utilized in horticulture/ landscape development within the premises.
39	Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after	Complied.

	taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighbouring communities.	All the top soil excavated during construction work is utilized in horticulture/ landscape development within the premises.
40	Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete (RMC and lead free paints in the project.	Complied. Unit is using fly ash bricks, fly ash paver blocks for the construction purpose.
41	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.	Complied. Complied. Unit is sending 100 percentage of fly ash generated from the plant to brick manufacturers. Please refer to the compliance of condition no. 47 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
42	"Wind - breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided. Individual building within the project site shall also be provided with barricades.	Complied. Temporary wind shielding along with barricades of adequate height had been provided along the periphery of the project site.
43	"No uncovered vehicles carrying construction material and waste shall be permitted."	Complied. All construction materials are transported through tarpaulin covered trucks only. No uncovered vehicles carrying the construction material and waste are permitted in the plant.
44	"No loose soil or sand or construction and demolition waste or any other construction material that cause dust shall be left uncovered. Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."	Complied. All construction materials are transported through tarpaulin covered trucks only. No uncovered vehicles carrying the construction material and waste are permitted in the plant.
45	Roads leading to or at construction site must be paved and blacktopped (i.e. - metallic roads).	Complied
46	No excavation of soil shall be carried out without adequate dust mitigation measures in place.	Complied. No excavation of soil is being carried out without adequate dust mitigation measures in place. Utmost measures are being adopted to prevent dust at our construction sites before carrying out any excavation activity.
47	Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.	Complied.

48	Grinding and cutting of building materials in open area shall be prohibited.	Complied.
49	Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.	Complied.
50	Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).	Complied.

B.2	OPERATION PHASE	
B.2.1	WATER	
51	The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	Complied. Unit receives water from the GIDC water supply. Water meters are installed and records are maintained.
52	All efforts shall be made to optimize water consumption by exploring Best Available Technology(BAT). The unit shall continuously strive to reduce,recycle and reuse the treated effluent.	Complied.
B.2.2	AIR	
53	In case of use of spray dryer, the unit shall provide the adequate and efficient APCMs with the spray dryer so that there should not be any adverse impact on human health and environment. Unit shall carry out third party monitoring of the proposed Spray dryer and it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.	Not Applicable as the unit has not installed spray dryer. The Unit has installed adequate and efficient air pollution control systems at other process vent and utility stack outlets to achieve the norms prescribed in valid CC&A.
54	Acoustic enclosure shall be provided to the D.G. sets(If applicable) to mitigate the noise pollution and conform to the EPA Rules for air and noise emission standards.	Complied. The unit has provided acoustic enclosure to all the DG Set to mitigate the noise pollution.
55	Stacks/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.	Complied. The Unit has installed adequate and efficient air pollution control systems at other process vent and utility stack outlets to achieve the norms prescribed in valid CC&A.

56	Flue gas emission and Process gas emission (If any) shall conform to the standards prescribed by the GPCB/CPCB/MoEFandcc. At no time, emission level should go beyond the stipulated standards.	Complied. Unit is following the norms for flue gas and process gas emission as per valid CC&A. The unit is carrying out stack analysis by a MoEFandCC recognised and NABL accredited laboratory. All results are well within the prescribed limits.
57	All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	Complied. Closed handling and charging systems are provided for chemicals. Unit is monitoring the fugitive emission in the work zone as per the prescribed standards. Please refer to the compliance of condition no. 27 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
B.2.3	HAZARDOUS/SOLID WASTE	
58	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.	Complied. Unit is strictly complying with the regulatory norms and maintaining the records with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time.
59	Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	Complied. All the hazardous waste is stored in the designated storage area with a pucca bottom and proper leachate collection facility.
60	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)	Complied. Unit has taken necessary permission from the nearby TSDF site and CHWIF.
61	Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.	Complied. Unit is following the Motor Vehicle Act, 1988 and rules for the vehicles transporting hazardous waste. Waste is sent by Manifest System through Dedicated Hazardous waste vehicle with Active GPS system.
62	The design of the Trucks/tankers shall be such that there is no spillage during transportation.	Complied.

63	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	Complied. Unit is already following the co-processing of hazardous waste as a mode of disposal wherever possible.
64	Management of fly ash (If any) shall be as per the Fly ash Notification 2009 and its amendment time to time and it shall be ensured that there is 100 percentage utilization of fly ash to be generated from the unit.	Complied. 100percentage Fly ash is utilized by the authorized Brick manufacturer after having proper MoU with them. Please refer to the compliance of condition no. 47 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
B.2.4	SAFETY	
65	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.	Complied. Unit has obtained valid Factories License.
66	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.	Complied. The company is strictly complying with the rules and regulations under Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended.
67	Main entry and exit shall be separate and clearly marked in the facility.	Complied. Main entry and exit of plant premises are separate.
68	Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.	Complied.
69	Storage of flammable chemicals shall be sufficiently away from the production area.	Complied. Storage of flammable and hazardous chemicals is away from the production area.
70	Sufficient number of fire extinguishers shall be provided near the plant and storage area.	Complied. Fire extinguishers are provided near the plant and storage area for the emergency situation.
71	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.	Complied. All measures are being taken to avoid any accidents. Mandatory use of appropriate PPEs is being done to ensure that no harm is caused

		to any worker/employee while handling toxic / hazardous chemicals.
72	All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	Complied. All the toxic/hazardous chemicals are stored in optimum quantity and all necessary permissions in this regard are obtained before commencing the expansion activities. Maintaining the storage concept.
73	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	Complied. Unit strictly complies with all the mitigation measures and safeguards that are suggested in the Risk Assessment report.
74	Only flame proof electrical fittings shall be provided in the plant premises.	Complied. Only flameproof electrical fittings are provided in the plant premises. Unit has carried out Hazardous area classification through an external competent agency i.e Vision Power Facts, Mumbai. Please refer to the compliance of condition no. 12 (j) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
75	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.	Complied. Maintaining the storage concept. Unit is not handling small containers like drums/carbous. Most of our raw materials are handled through ISO tankers/containers.
76	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.	Complied. <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 percentage of total capacity.


		<ul style="list-style-type: none"> Hazardous chemical storage areas are fenced properly to avoid unauthorized entry.
77	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	Complied. Unit strictly follows all the standards for handling and pumping or vacuum transfer of chemicals for reduction of human exposure.
78	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	Complied Yes Unit has tie up with nearby health care units. (Jayaben Modi Hospital, 32 Kms) Please refer to the compliance of condition no. 93 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
79	Personal Protective Equipments (PPEs) 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.
80	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 made readily available in adequate quantity.
81	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. Please refer to the compliance of condition no. 97 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
82	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 and Rules.	Complied. OHC is maintaining all the records and Pre-employment and periodical medical examinations for all the workers are done as per the Factories Act and Rules. Please refer to the compliance of condition no. 98 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

83	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act and Rules.	Complied. Transportation of hazardous chemicals is being done as per the provisions of the Motor Vehicle Act.
84	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	Complied. Unit has implemented all the mitigation and recommendations mentioned in the EIA report.
85	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project	Complied. Necessary permission has been taken from PESO. Factory Licence has been obtained from Factory Inspectorate (DISH), Govt. of Gujarat.
B.2.5	NOISE	
86	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 and amended Rules.	Complied. Adequate measures are being taken to keep ambient noise well within the prescribed limits. Monthly Ambient Noise monitoring is being conducted by a MoEFFandCC recognized and NABL accredited laboratory. Please refer to the compliance of condition no. 106 of B.2.5 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022
B.2.6	CLEANER PRODUCTION AND WASTE MINIMISATION	
87	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.	Complied

88	<p>The company shall undertake various waste minimization measures such as :</p> <ol style="list-style-type: none"> Metering and control of quantities of active ingredients to minimize waste. Reuse of by-products from the process as raw materials or as raw materials substitutes. Use of automated and close filling to minimize spillages. Use of close feed system into batch reactors. Venting equipment through vapour recovery system. Use of high pressure hoses for cleaning to reduce wastewater generation. Recycling of washes to subsequent batches. Recycling of steam condensate. Sweeping / mopping of floor instead of floor washing to avoid effluent generation. Regular preventive maintenance for avoiding leakage, spillage etc. 	<p>Complied.</p> <p>Unit is undertaking all the measures for waste minimization. Please refer to the compliance of condition no. 108 of B.2.6 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
B.2.7	GREEN BELT AND OTHER PLANTATION	
89	<p>The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.</p>	<p>Complied.</p> <p>The unit has developed Green Belt as per CPCB guidelines within as well as outside the premises and will be continuing necessary activities to continue raising the green belt area. Please refer to the compliance of condition no. 109 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
90	<p>Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.</p>	<p>Complied.</p>
B.3	OTHER CONDITIONS	
91	<p>Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF and CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).</p>	<p>Complied.</p>
92	<p>The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The</p>	<p>Complied.</p> <p>The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas.</p> <p>Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>

	monitoring report shall be posted on the website of the project proponent.	
93	Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.	Complied. Unit assures to provide rain water harvesting at all possible locations and shall reuse the water after pre-treatment.
94	The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.	Complied. Unit will 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 Government / GIDC.
95	Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.	Complied. Unit ensures to use solar energy.
96	The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.	Complied. Dedicated green belt area is embarked for plantation.
97	All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.	Complied. Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
98	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.	Complied. Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
99	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.
100	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority,	Noted and Complied Unit is strictly complying with all the conditions stipulated in valid CCA.

101	During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	Complied. Unit has provided a garland drain to avoid spillage mixing with stormwater.
102	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	Complied. Pucca flooring is provided in the areas of chemical handling to prohibit soil contamination.
103	Leakages from 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.
104	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	Noted.
105	The above conditions will be enforced; inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and 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.	Complied. Unit assures to comply with all the requirements as per the Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
106	The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014 and its amendments from time to time in a letter and spirit.	Complied. The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas. Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
107	The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	Complied. Unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report.
108	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

109	<p>The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.</p>	<p>Complied.</p> <p>Unit has informed 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. Advertisement was published in Times of India (in English) and Sandesh (in Gujarati) on 14th July 2021. A copy of each was submitted to concerned authorities. Proof of the same is attached herewith.</p> 
110	<p>It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.</p>	<p>Complied.</p> <p>Unit is submitting the six monthly compliance report on a timely basis.</p>
111	<p>Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.</p>	<p>Noted.</p> <p>Unit assures that no False/Fabricated data has been submitted herewith.</p>
112	<p>The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.</p>	<p>Complied and noted</p> <p>Unit is strictly complying with all the conditions stipulated in valid CC&A.</p>

113	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted.
114	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	Complied. Company is implementing these conditions in a time bound manner.
115	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.	Not Applicable as the Unit has not taken any loan from any bank. The project was self financed.
116	This environmental clearance is valid for seven years from the date of issue.	Noted.
117	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
118	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance canceled.	Noted. Unit assures that no False/Fabricated data has been submitted herewith.

Environment Compliance Report of
EC File No. SEIAA/GUJ/EC/5(f)/1412/2019
Dated 04/11/2019

Environment Clearance Compliance report for period October 23 to March 24

File No.: SEIAA/GUJ/EC/5(f)/1412/2019 dated 04/11/2019

Sr. No:	Condition	Compliance																																																																																																																								
1	<table><thead><tr><th>Sr. No.</th><th>Name of Products</th><th>CAS No.</th><th>Quantity in MT/Month</th><th>Quantity in MT/Year</th><th>End Use</th></tr></thead><tbody><tr><td colspan="6">Nitration</td></tr><tr><td>1.</td><td>2,4/2,3/2,5/3,4 Di Chloro Nitro Benzene Either/Or</td><td>611-06-3/ 3209-22-1/ 89-61-2/ 99-54-7</td><td>7000</td><td>84000</td><td>Used in Dyes and Dyes Intermediate</td></tr><tr><td>2.</td><td>2,3,4/2,3,5 Tri Chloro Nitro Benzene Either/Or</td><td>17700-09-3/</td><td></td><td></td><td>Used in Dyes and Dyes Intermediate</td></tr><tr><td>3.</td><td>2,4,5/2,3,6 Tri Chloro Nitro Benzene Either/Or</td><td>89-69-0/</td><td></td><td></td><td>Used in Dyes and Dyes Intermediate</td></tr><tr><td colspan="6">Chlorination</td></tr><tr><td>4.</td><td>1,2,4 Tri Chloro Benzene Either/Or</td><td>120-82-1</td><td>2000</td><td>24000</td><td>Used in Dyes and Dyes Intermediate</td></tr><tr><td>5.</td><td>1,2,3 Tri Chloro Benzene Either/Or</td><td>87-61-6</td><td></td><td></td><td>Used in Dyes and Dyes Intermediate</td></tr><tr><td>6.</td><td>Para Chloro Toluene (PCT) Either/Or</td><td>106-43-4</td><td></td><td></td><td>Used in Dyes, Pharma, Perfumes</td></tr><tr><td>7.</td><td>Ortho Chloro Toluene (OCT) Either/Or</td><td>95-49-8</td><td></td><td></td><td>Used in Dyes, Pharma, Perfumes</td></tr><tr><td>8.</td><td>2 Chloro 4 Nitro Toluene Either/Or</td><td>121-86-8</td><td></td><td></td><td>Used in Dyes and Dyes Intermediate</td></tr><tr><td>9.</td><td>6 Chloro 2 Nitro Toluene Either/Or</td><td>83-42-1</td><td></td><td></td><td>Used in Dyes and Dyes Intermediate</td></tr><tr><td>10.</td><td>4 Chloro 2 Nitro Toluene Either/Or</td><td>89-59-8</td><td></td><td></td><td>Used in Dyes and Dyes Intermediate</td></tr><tr><td colspan="6">Physical Separations</td></tr><tr><td>11.</td><td>Ortho Di chloro Benzene (only Physical Separation)</td><td>95-50-1</td><td>900</td><td>10800</td><td>Used in Dyes and Dyes Intermediate</td></tr><tr><td>12.</td><td>Para Di chloro Benzene (only Physical Separation)</td><td>106-46-7</td><td>1000</td><td>12000</td><td>Used in Dyes and Dyes Intermediate</td></tr><tr><td>13.</td><td>Meta Di chloro Benzene (only Physical Separation)</td><td>541-73-1</td><td>200</td><td>2400</td><td>Used in Dyes and Dyes Intermediate</td></tr><tr><td colspan="6">Total</td></tr><tr><td colspan="2">Inorganic Products</td><td></td><td>11100</td><td>133200</td><td></td></tr><tr><td>14.</td><td>Hydrogen</td><td>1333-74-0</td><td>3000 Nm³/Hr.</td><td>--</td><td>Used in chemical reaction and process</td></tr></tbody></table>	Sr. No.	Name of Products	CAS No.	Quantity in MT/Month	Quantity in MT/Year	End Use	Nitration						1.	2,4/2,3/2,5/3,4 Di Chloro Nitro Benzene Either/Or	611-06-3/ 3209-22-1/ 89-61-2/ 99-54-7	7000	84000	Used in Dyes and Dyes Intermediate	2.	2,3,4/2,3,5 Tri Chloro Nitro Benzene Either/Or	17700-09-3/			Used in Dyes and Dyes Intermediate	3.	2,4,5/2,3,6 Tri Chloro Nitro Benzene Either/Or	89-69-0/			Used in Dyes and Dyes Intermediate	Chlorination						4.	1,2,4 Tri Chloro Benzene Either/Or	120-82-1	2000	24000	Used in Dyes and Dyes Intermediate	5.	1,2,3 Tri Chloro Benzene Either/Or	87-61-6			Used in Dyes and Dyes Intermediate	6.	Para Chloro Toluene (PCT) Either/Or	106-43-4			Used in Dyes, Pharma, Perfumes	7.	Ortho Chloro Toluene (OCT) Either/Or	95-49-8			Used in Dyes, Pharma, Perfumes	8.	2 Chloro 4 Nitro Toluene Either/Or	121-86-8			Used in Dyes and Dyes Intermediate	9.	6 Chloro 2 Nitro Toluene Either/Or	83-42-1			Used in Dyes and Dyes Intermediate	10.	4 Chloro 2 Nitro Toluene Either/Or	89-59-8			Used in Dyes and Dyes Intermediate	Physical Separations						11.	Ortho Di chloro Benzene (only Physical Separation)	95-50-1	900	10800	Used in Dyes and Dyes Intermediate	12.	Para Di chloro Benzene (only Physical Separation)	106-46-7	1000	12000	Used in Dyes and Dyes Intermediate	13.	Meta Di chloro Benzene (only Physical Separation)	541-73-1	200	2400	Used in Dyes and Dyes Intermediate	Total						Inorganic Products			11100	133200		14.	Hydrogen	1333-74-0	3000 Nm ³ /Hr.	--	Used in chemical reaction and process	<p>Complied. The stated condition has been amended. Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/1470/2022. The production quantity is well within the permitted capacity.</p>
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A	CONDITIONS	
A.1	SPECIFIC CONDITION	Status
1	Unit shall provide adequate treatment to industrial effluent in such a way that no pollutant get air borne during evaporation in order to prevent adverse impact on Human Health and Environment.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 18 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
2	Unit shall obtained prior permission from PESO for storage and handling of hazardous chemical.	Complied. Dedicated storage facility of flammable chemicals provided at safer distance from production area as per PESO approval. Please refer to the compliance of condition no. 12(a) of A.1 of EC File No.

		SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
3	Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.	Complied. Necessary flameproof fittings are provided in production plants as per the hazardous area classification. Please refer to the compliance of condition no. 12(i) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
4	Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines. LDAR Logbooks shall be maintained.	Complied. Unit is adhering to internal guidelines for LDAR prepared based on the MoEF notification G.S.R.186 (E): Fugitive emission. Unit is carrying out quarterly LDAR monitoring. Please refer to the compliance of condition no. 5 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
5	Unit shall explore the possibilities for environment friendly methods for disposal of Incinerable and land fillable wastes before sending to CHWIF/TSDF sites respectively.	Complied. Unit is already following the co-processing of hazardous waste as the most preferred mode of disposal wherever possible.
6	All measures shall be taken to prevent soil and ground water contamination	Complied. Please refer to the compliance of condition no. 10 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
7	The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.	Complied Unit is adhering to stipulations of Gujarat Pollution Control Board.
8	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.	Complied. Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEFandCC approved and NABL Accredited laboratory. All results are well within the prescribed limits. Please refer to the compliance of condition no. 7 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
9	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G. S. R. 608 (E) dated 21/07/2010 and amended from time to time shall be followed.	Complied. The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37. Please refer to the compliance of condition no. 8 of A.1 of EC File No.

		SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
10	Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants, and shall carry out the project development in accordance and consistence with the same.	Complied. Unit is complying with the area specific policies of GPCB with respect to the discharge of pollutants.
A.2	Water	
11	Total water requirement for the project shall not exceed 811 KLD. Unit shall reuse 151 KLD Hence, fresh water requirement shall not exceed 660 KLD and it shall be met through GIDC water supply only. Prior permission from the concerned authority shall be obtained for withdrawal of water.	Complied. The stated condition has been amended. Water Consumption is consumed by the unit in accordance with the compliance of condition no. 13 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
12	No ground water shall be tapped for the project requirements.	Complied. No groundwater is being tapped for utilization. The unit is only using water from GIDC.
13	The industrial effluent generation from the project shall not exceed 231 KLD.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 15 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
14	<p>The industrial effluent shall be segregated and treated as follows :</p> <p>Stream 1: High COD effluent (91 KLD from process) shall be treated in Fenton treatment followed by neutralization further treated effluent shall be fed into the MEE, Condensate from MEE shall be subjected to Soil Bio Technology (SBT) and treated effluent from SBT treatment shall be stored in treated water storage tank, while MEE Concentrate shall be treated in ATFD.</p> <p>Stream 2: Utility effluent (50 KLD from cooling and 10 KLD from washing) shall be subjected to equalization, neutralization and filtration followed by Soil Bio Technology (SBT) and treated effluent from SBT treatment shall be stored in treated water storage tank.</p> <p>Stream 3: 30 percentage HCL (80 KLD) from process shall be neutralized if not sold under Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016. Neutralized effluent shall be further subjected to filtration and treated effluent after filtration shall be stored in a treated water storage tank.</p>	<p>Complied.</p> <p>The stated condition has been amended. Please refer to the compliance of condition no. 16 and 17 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
15	Treated effluent from treated water storage tank of all the above mentioned stream 1,2 and 3 shall be further treated	Complied. The stated condition has been amended. Please

	in Sand Filter and Carbon Filter and finally discharged into NCTL pipeline of Jhagadia GIDC after achieving the norms of CPCB/GPCB/MoEFandCC.	refer to the compliance of condition no. 16 and 17 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. The treated effluent meeting the discharge norms sent to NCT-JPP pipeline for deep sea discharge.																				
16	Domestic sewage generation shall not exceed 28 KLD and it shall be treated in in-house STP and treated sewage shall be utilized in gardening (except monsoon) else in cooling tower (In monsoon).	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 19 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.																				
17	The unit shall provide metering facility at the inlet and outlets of the Fenton Treatment, MEE, SBT and STP and maintain records for the same.	Complied. Please refer to the compliance of condition no. 21 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.																				
18	Proper logbooks of Fenton Treatment, MEE, SBT and STP, quantity and quality of effluent feed to Fenton Treatment, MEE, SBT and STP, power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.	Complied. Unit is maintaining proper logbooks of ETP, STP, recycle/ reuse of treated/ untreated effluent, chemical consumption in effluent treatment, quantity and quality of treated effluent, power consumption. Please refer to the compliance of condition no. 22 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.																				
A.3	Air																					
19	Unit shall not exceed fuel consumption for DG Sets (Stand by) as mentioned below: <table><tr><td>Sr. no.</td><td>Source of emission With Capacity</td><td>Stack Height (meter)</td><td>Type of Fuel</td><td>Quantity of Fuel MT/Day</td><td>Type of emissions i.e. Air Pollutants</td><td>Air Pollution Control Measures (APCM)</td></tr><tr><td>1</td><td>D.G. Set (Standby) (2 Nos.) Capacity= 1500 KVA (Each)</td><td>30</td><td>Diesel</td><td>660 Liter/Hr.</td><td>PM SO₂ NO_x</td><td>Adequate stack height + Acoustic Enclosure</td></tr></table>	Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel MT/Day	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)	1	D.G. Set (Standby) (2 Nos.) Capacity= 1500 KVA (Each)	30	Diesel	660 Liter/Hr.	PM SO ₂ NO _x	Adequate stack height + Acoustic Enclosure	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.						
Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel MT/Day	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)																
1	D.G. Set (Standby) (2 Nos.) Capacity= 1500 KVA (Each)	30	Diesel	660 Liter/Hr.	PM SO ₂ NO _x	Adequate stack height + Acoustic Enclosure																
20	Unit shall provide adequate APCM with flue gas generation sources as mentioned above:	Complied. Unit has provided adequate APCMs in the existing flue gas generation sources and is achieving the norms as per standards mentioned in CC&A.																				
21	Unit shall provide adequate APCM with process gas generation sources as mentioned below: <table><tr><td>Sr. no.</td><td>Specific Source of emission (Name of the Product & Process)</td><td>Type of emission</td><td>Stack/Vent Height (meter)</td><td>Air Pollution Control Measures (APCM)</td></tr><tr><td>1.</td><td>Scrubber connected to Nitration Reactors.</td><td>NO_x: 25 Mg/Nm³</td><td>11</td><td>Two stage Alkali Scrubber</td></tr><tr><td>2.</td><td>Scrubber connected to Chlorination Reactor</td><td>HCl :20 Mg/Nm³</td><td>11</td><td>Water scrubber followed by Alkali Scrubber</td></tr><tr><td>3.</td><td>PSA Absorber</td><td>VOC</td><td>26</td><td>Water scrubber</td></tr></table>	Sr. no.	Specific Source of emission (Name of the Product & Process)	Type of emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)	1.	Scrubber connected to Nitration Reactors.	NO _x : 25 Mg/Nm ³	11	Two stage Alkali Scrubber	2.	Scrubber connected to Chlorination Reactor	HCl :20 Mg/Nm ³	11	Water scrubber followed by Alkali Scrubber	3.	PSA Absorber	VOC	26	Water scrubber	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. Unit has provided adequate APCMs in the existing process gas generation sources and is achieving the norms as per standards mentioned in CC&A.
Sr. no.	Specific Source of emission (Name of the Product & Process)	Type of emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)																		
1.	Scrubber connected to Nitration Reactors.	NO _x : 25 Mg/Nm ³	11	Two stage Alkali Scrubber																		
2.	Scrubber connected to Chlorination Reactor	HCl :20 Mg/Nm ³	11	Water scrubber followed by Alkali Scrubber																		
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22	<p>The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety and Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.</p> <ul style="list-style-type: none"> ➤ Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement ➤ Air borne dust shall be controlled with water sprinklers at suitable locations in the plant. ➤ A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive and transport dust emission. 	<p>Complied.</p> <p>Please refer to the compliance of condition no. 26 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
23	<p>Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.</p>	<p>Complied.</p> <p>The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37.</p> <p>Please refer to the compliance of condition no. 27 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
24	<p>For control of fugitive emission, VOCs, following steps shall be followed :</p> <ol style="list-style-type: none"> a. Closed handling and charging system shall be provided for chemicals b. Reflux condenser shall be provided over Reactors / Vessels. c. Pumps shall be provided with mechanical seals to prevent leakages. d. Air borne dust at all transfers operations/ points shall be controlled either by spraying water or providing enclosures. 	<p>Complied.</p> <p>Please refer to the compliance of condition no. 28 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
25	<p>Regular monitoring of ground level concentration of PM10, PM2.5 SO2, NOX, HCI and VOC shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB</p>	<p>Complied.</p> <p>Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEFandCC approved and NABL Accredited laboratory. All results are well within the prescribed limits.</p> <p>Please refer to the compliance of condition no. 29 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
26	<p>All the hazardous waste management shall be taken care as mentioned below:</p>	<p>Complied.</p> <p>Unit is strictly complying with the regulatory norms and maintaining the records with regards to</p>

All the hazardous waste management, storage and disposal shall be in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.					
Sr. no.	Type/Name of Hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity (MT/ Annum)	Management of HW
1.	ETP Waste	ETP Area	35.3	3103	Collection, Storage, Transportation, disposal to TSDF.
2.	MEE Salt	MEE	35.3	1825	Collection, Storage, Transportation, disposal to TSDF.
3.	Distillation Residue	Process Area	26.1	2700	Collection, Storage, transportation, disposal at Co-processing Incineration.
4.	Discarded containers/bags	RM & FG storage area	33.1	240	Collection, Storage, Decontamination, Disposal by sold to authorize recyclers.
5.	Used oil	Maintenance	5.1	6	Collection, Storage, Transportation, Disposal by selling to registered re-processors.
6.	Insulation Waste	Maintenance	--	24	Collection, Storage, Transportation disposal by at TSDF Site.
7.	Spent Carbon	ETP Area	28.3	60	Collection, Storage, transportation, sent for co-processing/incineration.
8.	Off Specification Product	Process Area	26.1	120	Collection, Storage, transportation, disposal at CHWIF.
9.	Hydrochloric Acid(HCl)	Process Area	B15	23276	Sold to end users having Rule-9 permission under Hazardous and other waste rules, 2016 or it will be neutralized and sent for treatment to ETP.
10.	Dil. Sulphuric Acid (70%)	From Nitration Group	26.3	56700	Sold to end users having Rule-9 permission under Hazardous and other waste rules, 2016 or it will be concentrated and reuse back in same product.
11.	Scrub Liquid	From NO _x Scrubber	--	350 KI/ Year	Collection, Storage and treated at in-house ETP.
12.	Spent Catalyst	From products of Chlorination process.	26.5	54	Collection, storage, transportation and send for re-generation & reuse.

handling and disposal of Hazardous waste in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

27	Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.	Complied. Please refer to the compliance of condition no. 31 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
28	The project proponent shall allocate the separate fund of Rs. 267.6 Lakhs i.e. 1.5 percentage of the capital investment in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFandCC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.	Complied. The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas. Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
29	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. Jyoti Om Chemical Research Centre Private Limited and submitted by project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.	Complied. All the recommendations / commitments made in the EIA report are being implemented.
B.	General Conditions	

B.1	CONSTRUCTION PHASE	
30	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.	Complied. Unit has adopted best construction practices to safeguard the water consumption and reduce the demand.
31	Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.	Complied. All construction materials are transported through tarpaulin covered trucks only. Regular water sprinkling is being done to control fugitive emission of dust.
32	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	Complied. Adequate sanitary and hygienic measures has been provided at the site and will be maintained throughout the construction phase as per below: <ul style="list-style-type: none"> • Clean up of jobsite after major tasks or at least daily; • Avoiding the build-up of hazardous, flammable, or combustible materials. Keeping walkways, stairs, and work areas clear. • Separate bathroom facilities are provided for male and female workers on a job site. Washing facilities on the site are provided for workers to wash their hands and avoid cross-contamination before eating, drinking or heading home for the day. Hence, workers can wash away harmful substances and use the washing area to service and decontaminate personal protective equipment (PPE).
33	First Aid Box shall be made readily available in adequate quantity at all the times.	Complied. First Aid Boxes are available at prominent locations in adequate quantities.
34	The project proponent shall strictly comply with the Building and other Construction Workers (Regulation of Employment and Conditions of Service) Act,1996 and Gujarat rules made there and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.	Complied. The unit is strictly complying with the Building and other Construction Workers (Regulation of Employment and Conditions of Service) Act,1996 and Gujarat rules made there and their subsequent amendments.
35	Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during the construction phase.	Complied. Monthly Ambient Noise monitoring is being conducted by a MoEFFandCC recognized and NABL accredited laboratory.

		Please refer to the compliance of condition no. 41 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
36	Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.	Complied. All the DG are provided with Acoustic Enclosures. Monthly Noise monitoring is being conducted by a MoEFFandCC recognized and NABL accredited laboratory. Please refer to the compliance of condition no. 42 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
37	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.	Complied. Unit is sending all the generated domestic effluent to a dedicated sewage treatment plant located in the unit for proper treatment and solid waste is being properly collected, segregated and disposed of on regular frequency.
38	All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.	Complied. All the top soil excavated during construction work is utilized in horticulture/ landscape development within the premises.
39	Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during the construction phase shall not create adverse effect on neighbouring communities.	Complied. All the top soil excavated during construction work is utilized in horticulture/ landscape development within the premises.
40	Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete (RMC) and lead free paints in the project.	Complied. Unit is using fly ash bricks, fly ash paver blocks for the construction purpose.
41	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.	Complied. Unit is sending 100 percentage of fly ash generated from the plant to brick manufacturers. Please refer to the compliance of condition no. 47 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
B.2	Operation Phase	
B.2.1	Water:	

42	The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	Complied. Unit receives water from the GIDC water supply. Water meters are installed and records are maintained.
43	All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT).The unit shall continuously strive to reduce, recycle and reuse the treated effluent.	Complied.
B.2.2	Air:	
44	In case of use of spray dryer, the unit shall provide the adequate and efficient APCMs with spray dryer so that there should not be any adverse impact on human health and environment. Unit shall carry out third party monitoring of the proposed Spray dryer and it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.	Not Applicable as the unit has not installed spray dryer. Unit has installed adequate and efficient air pollution control systems at other process vent and utility stack outlets to achieve the norms prescribed in valid CC&A.
45	Acoustic enclosure shall be provided to the DG sets (if applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.	Complied. The unit has provided acoustic enclosure to all the DG Set to mitigate the noise pollution.
46	Stack/vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.	Complied. The Unit has installed adequate and efficient air pollution control systems at other process vent and utility stack outlets to achieve the norms prescribed in valid CC&A.
47	Flue gas emission and Process gas emission (if any) shall conform to the standards prescribed by the GPCB/CPCB/MOEFandCC. At no time, emission level should go beyond the stipulated standards.	Complied. Unit is following the norms for flue gas and process gas emission as per valid CC&A. The unit is carrying out stack analysis by a MoEFandCC recognised and NABL accredited laboratory. All results are well within the prescribed limits.
48	All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	Complied. Closed handling and charging systems are provided for chemicals. Unit is monitoring the fugitive emission in the work zone as per the prescribed standards. Please refer to the compliance of condition no. 27 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

B.2.3	Hazardous Solid Waste:	
49	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage/ disposal of hazardous wastes.	Complied. Unit is strictly complying with the regulatory norms and maintaining the records with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time.
50	Hazardous wastes shall be dried, packed and stored in a separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	Complied. All the hazardous waste is stored in the designated storage area with a pucca bottom and proper leachate collection facility.
51	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF.(Whichever is applicable)	Complied. Unit has taken necessary permission from the nearby TSDF site and CHWIF.
52	Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.	Complied. Unit is following the Motor Vehicle Act, 1988 and rules for the vehicles transporting hazardous waste. Waste is sent by Manifest System through Dedicated Hazardous waste vehicle with Active GPS system.
53	The design of the Trucks/tankers shall be such that there is no spillage during transportation	Complied.
54	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	Complied. Unit is already following the co-processing of hazardous waste as a mode of disposal wherever possible.
55	Management of fly ash (if any) shall be as per the Fly ash Notification 2009 and its amendment from time to time and it shall be ensured that there is 100percentage utilization of fly ash to be generated from the unit.	Complied. 100percentage Fly ash is utilized by the authorized Brick manufacturer after having proper MoU with them. Please refer to the compliance of condition no. 47 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
B.2.4	Safety:	
56	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.	Complied. Unit has obtained a valid Factories License.

57	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended from time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.	Complied. The company is strictly complying with the rules and regulations under Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended.
58	Main entry and exit shall be separate and clearly marked in the facility.	Complied. Main entry and exit of plant premises are separate.
59	Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.	Complied.
60	Storage of flammable chemicals shall be sufficiently away from the production area.	Complied. Storage of flammable and hazardous chemicals is away from the production area.
61	Sufficient number of fire extinguishers shall be provided near the plant and storage area.	Complied. Fire extinguishers are provided near the plant and storage area for the emergency situation.
62	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.	Complied. All measures are being taken to avoid any accidents. Mandatory use of appropriate PPEs is being done to ensure that no harm is caused to any worker/employee while handling toxic / hazardous chemicals.
63	All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	Complied. All the toxic/hazardous chemicals are stored in optimum quantity and all necessary permissions in this regard are obtained before commencing the expansion activities. Maintaining the storage concept.
64	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	Complied. Unit strictly comply with all the mitigation measures and safeguards that are suggested in the Risk Assessment report.
65	Only flameproof electrical fittings shall be provided in the plant premises.	Complied. Only flameproof electrical fittings are provided in the plant premises. Unit has carried out

		Hazardous area classification through an external competent agency i.e Vision Power Facts, Mumbai. Please refer to the compliance of condition no. 12 (j) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
66	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.	Complied. Maintaining the storage concept. Unit is not handling small containers like drums/carbous. Most of our raw materials are handled through ISO tankers/ containers.
67	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.	Complied. <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 80percentage of total capacity. • Hazardous chemical storage areas are fenced properly to avoid unauthorized entry.
68	Handling and charging of the chemicals shall be done in a closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	Complied. Unit strictly follows all the standards for handling and pumping or vacuum transfer of chemicals for reduction of human exposure.
69	Tie up shall be done with a nearby health care unit/ doctor for seeking immediate medical attention in the case of Emergency.	Complied Yes Unit has tie up with nearby health care units. (Jayaben Modi Hospital, 32 Kms) Please refer to the compliance of condition no. 93 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
70	Personal Protective Equipments (PPEs) 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.
71	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 made readily available in adequate quantity.
72	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. Please refer to the compliance of condition no. 97 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
73	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 and Rules.	Complied. OHC is maintaining all the records and Pre-employment and periodical medical examinations for all the workers are done as per the Factories Act and Rules. Please refer to the compliance of condition no. 98 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
74	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act and Rules.	Complied. Transportation of hazardous chemicals is being done as per the provisions of the Motor Vehicle Act.
75	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	Complied. Unit has implemented all the mitigation and recommendations mentioned in the EIA report.
76	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	Complied. Necessary permission has been taken from PESO. Factory Licence has been obtained from Factory Inspectorate (DISH), Govt. of Gujarat.
B.2.5	Noise:	
77	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 and Rules.	Complied. Adequate measures are being taken to keep ambient noise well within the prescribed limits. Monthly Ambient Noise monitoring is being conducted by a MoEF and CC recognized and NABL accredited laboratory. Please refer to the compliance of condition no. 106

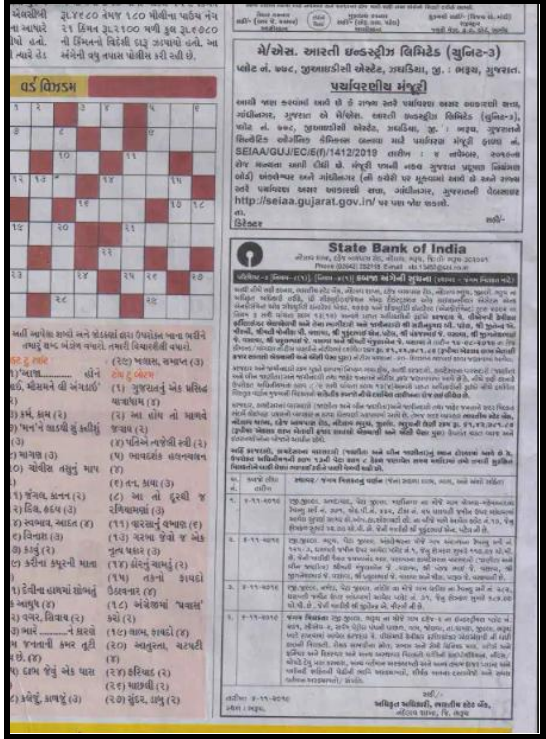
		of B.2.5 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
B.2.6	CLEANER PRODUCTION AND WASTE MINIMISATION:	
78	The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.	Complied
79	The company shall undertake various waste minimization measures such as : a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw materials substitutes. c. Use of automated and close filling to minimize spillages. d. Use of close feed system into batch reactors. e. Venting equipment through vapour recovery system. f. Use of high pressure hoses for cleaning to reduce wastewater generation. g. Recycling of washes to subsequent batches. h. Recycling of steam condensate. i. Sweeping / mopping of floor instead of floor washing to avoid effluent generation. j. Regular preventive maintenance for avoiding leakage, spillage etc.	Complied. Unit is undertaking all the measures for waste minimization. Please refer to the compliance of condition no. 108 of B.2.6 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
B.2.7	GREEN BELT AND OTHER PLANTATION	
80	The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC/GPCB and submit an action plan of plantation for next three years to the GPCB.	Complied. The unit has developed Green Belt as per CPCB guidelines within as well as outside the premises and will be continuing necessary activities to continue raising the green belt area. Please refer to the compliance of condition no. 109 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
81	Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.	Complied.
B.3	OTHER CONDITION:	
82	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by	Complied.

	MoEFandCC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).	
83	Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.	Complied. Unit assures to provide rain water harvesting at all possible locations and shall reuse the water after pre-treatment.
84	The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.	Complied. Unit will 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 Government / GIDC.
85	Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.	Complied. Unit ensures to use solar energy.
86	The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.	Complied. Dedicated green belt area is embarked for plantation.
87	All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to	Complied. Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
88	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.	Complied. Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
89	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	Complied. Unit has provided the system to close down the operation in the event of failure of any pollution control equipment.

90	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	Noted and Complied Unit is strictly complying with all the conditions stipulated in valid CC&A.
91	During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	Complied. Unit has provided a garland drain to avoid spillage mixing with stormwater.
92	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	Complied. Pucca flooring is provided in the areas of chemical handling to prohibit soil contamination.
93	Leakages from 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.
94	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	Noted.
95	In the above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and 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.	Complied. Unit assures to comply with all the requirements as per the Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
96	The project proponent shall comply with all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	Complied. The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas. Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
97	The project management shall ensure that the unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponents.	Complied. Unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report.
98	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEJAA as well as GPCB along with the implementation schedule for all the	Complied

	conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	
99	<p>The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.</p>	<p>Complied.</p> <p>Unit has informed 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.</p> <p>Advertisement was published in Times of India (in English) and Sandesh (in Gujarati) on 09th November 2019. Proof of the same are attached herewith</p>



		
100	It shall be mandatory for the project management to submit a half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1 st June and 1 st December of each calendar year.	<p>Complied.</p> <p>Unit is submitting the six monthly compliance report on a timely basis.</p>
101	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<p>Noted.</p> <p>Unit assures that no False/Fabricated data has been submitted herewith.</p>
102	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	<p>Complied and noted</p> <p>Unit is strictly complying with all the conditions stipulated in valid CC&A.</p>
103	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	<p>Noted.</p>
104	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	<p>Complied.</p> <p>Company is implementing these conditions in a time bound manner.</p>
105	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	<p>Not Applicable as the Unit has not taken any loan from any bank. The project was self financed.</p>

106	This environmental clearance is valid for seven years from the date of issue.	Noted.
107	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
108	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance canceled.	Noted. Unit assures that no False/Fabricated data has been submitted herewith.

Environment Compliance Report of
EC File No.SEIAA/GUJ/EC/5(f)/101/2020
Dated 05/02/2020

Environment Clearance Compliance report for period October 23 to March 24

File No.: SEIAA/GUJ/EC/5(f)/101/2020 dated 05/02/2020

Sr. No:	Condition	Compliance
1	<p>In continuation to the Environment Clearance accorded by the SEIAA vide order no. SEIAA/GUJ/EC/5(f)/1412/2019 dated 04/11/2019; we have received your application vide No. SIA/GJ/IND2/125216/2019 seeking correction in typographic error. In this regard kindly note below.</p> <p>Correction No. 1 – The plot No. shall be read as "778" Instead of "758/1-2-3".</p> <p>Rest of the condition of order no. SEIAA/GUJ/EC/5(f)/1412/2019 dated 04/11/2019 will remain unchanged.</p>	Noted.

**Environment Compliance Report of
EC File No.SEIAA/GUJ/EC/5(f)/335/2016,
Dated: 20/05/2016**

Environment Clearance Compliance report for period October 23 to March 24

File No.: SEIAA/GUJ/EC/5(f)/335/2016, Dated: 20/05/2016

Sr. No.	Name of Product	Capacity MT/Month	Compliance
1	Hydrogen Gas	3000 NM ³ /Hr	Complied. Please refer production details as mentioned in the EC compliance report of EC file No. SEIAA/GUJ/EC/5(f)/1470/2022. The production quantity is well within the permitted capacity.
2	Purification of O/P/M Phenylene Di Amine	1500	
3	Calcium Chloride	6000	
I	Chlorination Products		
1	Mono Chloro Benzene/Ortho Dichloro Benzene/Para Dichloro Benzene	6000	Complied. Please refer production details as mentioned in the EC compliance report of EC file No. SEIAA/GUJ/EC/5(f)/1470/2022. The production quantity is well within the permitted capacity.
2	1,2,3/1,2,4 Tri Chloro Benzene OR		
3	Ortho Chloro Toluene / Para Chloro Toluene OR		
4	2-Chloro 4-Nitro Toluene OR		
5	6-Chloro 2-NitroToluene 4-Chloro 2-Nitro Toluene OR		
6	Pivalyl Chloride OR		
7	2-Ethyl Hexanyl Chloride Or		
8	Iso Nonyl Chloride OR		
9	2,4,6 Trichloro Aniline (TCAN) OR		
II	Hydrogenated Products		
1	Ortho Toludene OR	3000	Complied. Please refer production details as mentioned in the EC compliance report of EC file No. SEIAA/GUJ/EC/5(f)/1470/2022. The production quantity is well within the permitted capacity.
2	Meta/Ortho/Para Chloro Aniline OR		
3	3,4 DiChloro Aniline/ 2,3 DiChloro Aniline/ 2,5 DiChloro Aniline OR		
4	2,4 Dichloro Aniline/ 2,6 DiChloro Aniline/ 3,5 DiChloro Aniline OR		
5	2,4,5 Trichloroaniline OR		

6	Meta/ Ortho/ Para Phenylene Di Amine OR		
7	3,4 Diamino Diphenyl Ether / 4,4 Diamino Diphenyl Ether OR		
8	Ortho/Para/MetaAnisidine OR		
9	Chloro Fluoro Aniline OR		
10	Ortho/Para/Meta Cumidine OR		
11	Para/Meta Amino Phenol OR		
12	Toluidines OR		
13	Aniline OR		
14	Para/ Meta/ Ortho Fluoro Aniline OR		
15	Di Fluoro Aniline (1:3) OR		
16	Di Fluoro Benzene (1:3) OR		
17	4-Fluoro-N-Isopropyl Aniline OR		
18	4-Chloro-NIsopropyl Aniline OR		
19	2 Methoxy 4 NitroAniline (Scarlet R - from partial hydrogenation of 24 DinitroAnisole) OR		
20	2,4 Di Amino Anisole		
21	N-N Disec Butyl PPDA OR		
22	Meta Xylidine OR		
23	4 Chloro 25 Dimethoxy Aniline OR		
24	N,N Di Sec butyl paraphenylene Diamine		
III	Nitration Products		
1	3,4 Di Chloro Nitro Benzene/ 2,5 DiChloro Nitrobenzene/2,3 DiChloro Nitrobenzene OR	2000	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products
2	2,4,5 Tri Chloro Nitro Benzene/2,3,4 Tri Chloro Nitro Benzene OR		
3	4-Nitro N-methyl Phtha-limide OR		

4	2EHN (Ethyl Hexanol Nitration) OR		
IV	Nitro Anisole		
1	Ortho Nitro Anisole OR	1200	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products
2	Para Nitro Anisole OR		
3	2,4-Di Nitro Anisole OR		
4	2, Methoxy 5 Chloro Nitro Benzene (from 2,5 DCNB)		
VI	Di Nitro Chlorination		
1	2,6 Dichloro Floro Benzene	1200	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products
2	2,6 Dichloro Benzonitrile		
3	Meta Dichlorobenzene		
4	2,4 Difluoro Chloro Benzene		
5	2,4 DiChloro Fluoro Benzene		
6	1,3 Dichloro 4,6 Difluorobenzene		
7	Para Fluoro Chloro Benzene		
8	Ortho Fluoro Chloro Benzene		
BY PRODUCTS			
1	Steam (By-Product)	136.56 KL/Day	Complied. Please refer production details as mentioned in the EC compliance report of EC file No. SEIAA/GUJ/EC/5(f)/1470/2022. The production quantity is well within the permitted capacity.
2	Sodium Chloride	2069	Compiled. As per EC No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of issue: 30/05/2022, Sodium Chloride and Ortho Nitro Phenol (ONP) are removed from the By-product list. Presently the unit is having partial CCA for Sodium Chloride and yet to apply for

3	Ortho Nitro Phenol	41	Ortho Nitro Phenol (ONP). However, both are not being generated at present.
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Sr. No.	CONDITIONS	COMPLIANCE
A.	CONDITIONS:	
A.1 SPECIFIC CONDITION:		
1.	Entire quantity of (1) Sodium Chloride [2069 MT/Month] and (2) Ortho Nitro Phenol [41 MT/Month] shall be sell out to the actual end users.	Complied. As per EC No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of issue: 30/05/2022, Sodium Chloride and Ortho Nitro Phenol (ONP) are removed from the By-product list. Presently the unit is having partial CCA for Sodium Chloride and yet to apply for Ortho Nitro Phenol (ONP). However, both are not being generated at present. Unit will sell the entire quantity of Sodium Chloride and Ortho Nitro Phenol once generated with proper MoU by manifest system through dedicated Hazardous waste vehicle with Active GPS system.
2.	Spent HCL - 30percentage (12106 MT/Month) shall be utilized as captive consumption for the manufacturing of Calcium Chloride to the maximum extent and if need arises, excess Spent HCl - 30percentage shall be sold to the authorized actual end users.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
3.	Spent Sulphuric Acid - 72percentage (775 MT/Month) shall be sold to the authorized actual end users.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
4.	Unit shall strive to exploring utilization of spent sulphuric acid by converting it into the valuable products within the premises.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
5.	Above mentioned items/wastes streams qualifying the Hazardous and Other Waste	Complied. The stated condition has been amended. Hazardous waste

	(Management and Transboundary Movement) Rules 2016 shall only be sold after obtaining prior permission from CPCB/SPCB/PCC.	is managed by the unit in accordance with the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
6.	The unit shall install and commission the spent acid concentration plant II proposed at organic division before commencement of production.	Complied. The stated condition has been amended. Hazardous waste is managed by the unit in accordance with the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
7.	The above mentioned By-product/hazardous wastes shall be sold only to the potential users who are authorized by the competent authority (MoEF/CPCB/SPCB etc.)	Complied. Hazardous waste is managed by the unit in accordance with the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
8.	The unit shall submit the list of authorized end users of above mentioned by-products/hazardous wastes along with MoU signed with them for at least two months in advance prior to commencement of production. In absence of potential buyers of these items the unit shall restrict the production of respective item.	Complied. Please refer to the compliance of condition no. 78 of B.2.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
9.	The schedule of the production activity shall be in such a way that there shall be no increase in pollution load with respect of air, water and hazardous waste as proposed in the EIA-EMP report.	Complied. Unit ensures the schedule of the production activity in such a way that there is no increase in pollution load with respect to air, water and hazardous waste as approved in EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. <ul style="list-style-type: none"> • Water consumption is under permissible limits. • Ambient Air Monitoring is being done weekly twice. • All process stacks and Flue gas stacks are analyzed monthly once by an external monitoring agency approved by NABL. • Noise Analysis is done monthly once. • Hazardous waste generation is within permissible limits.

10.	Spent solvents shall be recovered by in-house distillation in such a manner that recovery shall not be less than 98 percent and recovered solvent shall be reused in the process. Solvent recovery system with adequate reflux condensers shall be provided for controlling escape of low boiling solvents (VOCs).	Complied Solvent recovery systems with adequate reflux condensers are provided for controlling escape of low boiling solvents (VOCs). Recovered solvents are being used in the process to the extent possible.
11.	All measures shall be taken to prevent soil and groundwater contamination.	Complied. Please refer to the compliance of condition no. 10 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
12.	The project proponent shall submit the detailed study report to Gujarat Pollution Control Board (GPCB) at least once in a year, through the reputed institute or university to assess the impacts on soil and ground water quality, if any, due to application of the treated sewage and shall adopt the additional mitigation measures as may be suggested through such studies.	Complied Unit has conducted m/s. Sarvajanik College of Engineering and Technology for the evaluation of the ETP Performance and adequacy. However, the stated condition is not included in amended EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
A.2 WATER:		
13.	Total water consumption for proposed expansion shall not exceed 2417 KL/Day. Unit shall reuse recovered water to the tune of 668 KL/Day. Hence, fresh water requirement for the proposed expansion shall not exceed 1749 KL/Day.	Complied. The stated condition has been amended. Water Consumption is consumed by the unit in accordance with the compliance of condition no. 13 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
14.	The additional fresh water shall be sourced from GIDC. The water meter shall be installed and records of daily and monthly water consumption shall be maintained. No ground water shall be tapped for the project requirements in any case.	Complied. The stated condition has been amended. Water Consumption is consumed by the unit in accordance with the compliance of condition no. 13 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. No groundwater is being tapped for utilization. The unit is only using water from GIDC.
15.	Total Industrial waste water generation after proposed expansion shall not exceed 408.336 KL/Day (Existing 33.336 KL + 375 KL)	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 15 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

16.	Effluent generated from the existing unit shall be treated in provided RO system [100 KL/day], Evaporator [2 KL/day], Tube settler [5 KL/day] and Nutch Filter [0.5 KL/day].	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 16 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
17.	Additional waste water generated from the proposed expansion shall be treated in proposed facility comprising primary, secondary, tertiary treatment plants, RO plants and MEE (Capacity : 70 KL/day) to achieve zero discharge.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 15 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
18.	Total 168 KL/Day of effluent from process and washing shall be treated in ETP followed by RO-2, RO-4 and MEE.	Complied. The stated condition has been amended. Industrial effluent is managed by the unit in accordance with the compliance of condition no. 16, 17 and 18 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
19.	Total 207 KL/day effluent from utilities shall be treated in RO-3, RO-4 and MEE.	Complied. The stated condition has been amended. Industrial effluent is managed by the unit in accordance with the compliance of condition no. 16, 17 and 18 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
20.	Unit shall recycle recovered water to the tune of 668 KL/day (298.28 KL from existing and 369.72 KL from proposed expansion).	Complied. The stated condition has been amended. Industrial effluent is managed by the unit in accordance with the compliance of condition no. 16, 17 and 18 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
21.	Total domestic waste water of 38 KL/day shall be treated in proposed STP (Capacity : 40 KL/day) and shall be utilized for gardening/plantation within premises.	Complied. The stated condition has been amended. Domestic wastewater is managed by the unit in accordance with the compliance of condition no. 19 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
22.	The treated domestic effluent conforming to the MoEF/CPCB/GPCB norms shall be utilized on land within premises for plantation/ Gardening/ Green Belt. During monsoon season when treated effluent may not be required for the plantation/ Gardening / Green belt purpose, it shall be stored within premises and there shall be no discharge of wastewater outside the premises in any case.	Complied. Treated domestic wastewater is managed by the unit in accordance with the compliance of condition no. 20 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

23.	The unit shall provide flow meter / totalizer for measuring effluent treated and reuse and maintain daily records of the same.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 21 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
24.	Proper Logbook of the ETP, RO, MEE and STP operation, effluent quality and quantity, chemical and power consumption etc. shall be maintained and shall be furnished to GPCB from time to time.	Complied. Please refer to the compliance of condition no. 22 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
25.	No effluent from the plant shall be discharged outside the factory premises and process effluent/any wastewater shall not be allowed to mix with storm water.	Complied. Please refer to the compliance of condition no. 17 and 20 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
26.	The unit shall provide metering facility at the inlet and outlet of the Effluent treatment Plant, RO system, MEE plant and STP and maintain the records of the same.	Complied. Please refer to the compliance of condition no. 21 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
27.	Regular performance evaluation of the ETP shall be undertaken every year to check its adequacy, through a reputed institute / organization and its records shall be maintained.	Complied. Unit has conducted m/s. Sarvajanik College of Engineering and Technology for the evaluation of the ETP Performance and adequacy. However, the stated condition is not included in amended EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
28.	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 Government / GIDC.	Complied. Unit will 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 Government / GIDC.
A.3 AIR:		
29.	Imported coal to the tune of 11.02 MT/hr shall be used as a fuel for each Steam Boiler having capacity 30 TPH (2 Boilers).	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

30.	Imported coal to the tune of 14.57 MT/hr shall be used as a fuel for CaCl ₂ dryer.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
31.	Unit shall provide separate ESP as APCM for each Boiler.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
32.	Unit shall provide Wet scrubber as CaCl ₂ dryer vent.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
33.	Unit shall provide separate set of falling film absorber followed by Alkali Scrubber to control emission of HCl from CaCO ₃ reactor vent and to control emission of HCl and Cl ₂ from Chlorinator vent.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
34.	Unit shall provide caustic scrubber to control emission of NO _x from Nitration vent.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
35.	Diesel to the tune of 850 Lit./hr shall be used for existing DG sets (650 KVA * 2 Nos and 750 KVA * 3 Nos).	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
36.	Diesel to the tune of 1080 Lit./hr shall be used for the proposed 4 nos of DG sets (Cap. 1000 KVA each).	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
37.	Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	Complied. The unit has provided Acoustic enclosure to all the DG Set to mitigate the noise pollution.
38.	Flue gas emissions from Boilers, DG set and any gaseous emissions shall conform to the standards prescribed by the GPCB/CPCB/MoEFandCC. At no time, emission level should go beyond the stipulated standards.	Complied. Please refer to the compliance of condition no. 23 and 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
39.	The air pollution system shall be operated	Complied.

	efficiently and effectively to achieve the norms prescribed by the GPCB/CPCB/MoEFandCC at vent / stack outlets.	Unit has provided adequate APCMs in the existing process gas generation sources and is achieving norms as per standards mentioned in CC&A.
40.	Third party monitoring of the functioning of Air APCMs with its efficiency shall be carried out once in a year through a reputed Institute / organization.	Complied. Unit has provided adequate APCMs in the existing flue gas and process gas generation sources and is achieving the norms as per standards mentioned in CC&A. Please refer to the compliance of condition no. 23 and 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. All Analysis results are well within limits. Hence, the efficiency of APCM is good.
41.	The company shall prepare schedule and carry out regular preventive maintenance of APCMs and assign responsibility of preventive maintenance to the senior officer of the company.	Complied. Unit has a proper schedule for preventive maintenance of APCMs. According to the schedule, preventive maintenance is carried out regularly.
42.	<p>The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety and Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.</p> <ul style="list-style-type: none"> ➤ Enclosure shall be provided at Bio-fuel loading and unloading operations. ➤ Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement. ➤ Air borne dust shall be controlled with water sprinklers at suitable locations in the plant. ➤ Bio-fuel shall be transported through covered trucks only whereas fly ash shall be transported through closed trucks only. ➤ A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive and transport dust emission. 	Complied. Please refer to the compliance of condition no. 26 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
43.	All the vessels used in the manufacturing	Complied.

	process shall be closed to reduce the fugitive emission.	Please refer to the compliance of condition no. 28 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
44.	Regular performance evaluation of the air pollution control systems shall be carried out at least once in a year through a reputed Institute / organization and its records shall be maintained.	Complied. Unit has provided adequate APCMs in the existing flue gas and process gas generation sources and is achieving the norms as per standards mentioned in CC&A. Please refer to the compliance of condition no. 23 and 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. All Analysis results are well within limits. Hence, the efficiency of APCM is good.
45.	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.	Complied Solvent recovery systems with adequate reflux condensers are provided for controlling escape of low boiling solvents (VOCs). Recovered solvents are being used in the process to the extent possible. Unit is doing nitrogen blanketing for reduction of emission of toxic VOC as well as the unit will also provide vent condensers for maximum recovery of VOC.
46.	All the vessels used in the manufacturing process shall be close to reduce the fugitive emission.	Complied. All vessels used in the manufacturing process are closed. Unit is monitoring the fugitive emission in the work zone as per the prescribed standards.
47.	Solvent management shall be carried out as follows: 1. Reactor shall be connected to chilled brine condenser system to condensate solvent vapors and reduce solvent losses. 2. Reactor and solvent handling pump shall have mechanical seals to prevent leakages. 3. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% solvent recovery. 4. Solvents shall be stored in a separate space specified with all safety measures. 5. Proper earthing shall be provided in all the electrical equipment wherever	Complied Solvent recovery systems with adequate reflux condensers are provided for controlling escape of low boiling solvents (VOCs). Recovered solvents are being used in the process to the extent possible. Unit assures to comply all the design strictly followed for 1. Reduction of solvent losses by providing vent chillers. 2. All the solvent handling pumps are with mechanical seals for reduction of leakages during pumping. 3. Unit will follow standard design as per code for maintaining the recovery above 95% in all solvent recovery. 4. Unit assure you that Unit will follow all the guidelines as per PESO for storage and handling of solvents. 5. Unit will provide earthing to all solvent handling equipment as well and piping as per standard and maintain records of it for healthiness. 6. Unit has provided flameproof fittings and system for the entire plant and solvent storage with breather valve provision.

	<p>solvent handling is done.</p> <p>6. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.</p>	
48.	Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.	<p>Complied.</p> <p>Please refer to the compliance of condition no. 27 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
49.	<p>For control of fugitive emission, VOCs, following steps shall be followed:</p> <ol style="list-style-type: none"> Closed handling and charging system shall be provided for chemicals. Reflux condenser shall be provided over Reactors / Vessels. Pumps shall be provided with mechanical seals to prevent leakages. System of leak detection and repair of pump/pipeline based on preventive maintenance. 	<p>Complied.</p> <p>Please refer to the compliance of condition no. 28 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
50.	Airborne dust at all transfers operations/ points shall be controlled either by spraying water or providing enclosure.	<p>Complied.</p> <p>Water sprinklers in the Coal storage yard and ash handling system are provided to avoid dusting.</p>
51.	System of leak detection and repair of pump/pipeline based on preventive maintenance.	<p>Complied.</p> <p>Unit is adhering to internal guidelines for LDAR prepared based on the MoEF notification G.S.R.186 (E): Fugitive emission. Unit is carrying out quarterly LDAR monitoring. Please refer to the compliance of condition no. 5 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
52.	Regular monitoring of ground level concentration of SO ₂ , NO _x , PM ₁₀ , PM _{2.5} , HCl, Cl ₂ , HC and VOC shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in	<p>Complied.</p> <p>Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEFandCC approved and NABL Accredited laboratory. All results are well within the prescribed limits.</p> <p>Please refer to the compliance of condition no. 29 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>

	consultation with the GPCB.	
A.4 SOLID/HAZARDOUS WASTE:		
53.	The company shall strictly comply with the rules and regulation with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.	<p>Complied.</p> <p>Unit is strictly complying with the regulatory norms and maintaining the records with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time.</p> <p>Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
54.	Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility before its disposal.	<p>Complied.</p> <p>All the hazardous waste is stored in the designated storage area with a pucca bottom and proper leachate collection facility.</p>
55.	Silica and Insulation waste shall be disposed off at the nearby common TSDF	<p>Complied.</p> <p>The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
56.	Spent catalyst shall be sale out to registered regenerators.	<p>Complied.</p> <p>The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
57.	Process residue and Distillation residue shall be sent to Common Hazardous Waste Incineration Facility (CHWIF).	<p>Complied.</p> <p>The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
58.	Discarded barrels / containers / bags / liners shall be either reused or returned back to suppliers or solid only to the authorized vendors after decontamination.	<p>Complied.</p> <p>The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
59.	Used oil shall be sold only to the registered recyclers.	<p>Complied.</p> <p>The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>

60.	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF.	Complied. Please refer to the compliance of condition no. 71 of B.2.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
61.	Vehicles used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988 and rules made there under.	Complied. Unit is following the Motor Vehicle Act, 1988 and rules for the vehicles transporting hazardous waste. Waste is sent by Manifest System through Dedicated Hazardous waste vehicle with Active GPS system.
62.	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	Complied. Unit is already following the co-processing of hazardous waste as a mode of disposal wherever possible.
63.	The fly ash shall be supplied to the manufacturers of fly ash based products such as cement, concrete blocks, bricks, panels, etc. The unit shall strictly comply with the Fly Ash Notification under EPA and it shall be ensured that there is 100 percentage utilization of fly ash to be generated from the unit.	Complied 100percentage Fly ash supplied only to the authorized brick manufacturers having proper MoU with them. Please refer to the compliance of condition no. 47 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
A.5 SAFETY:		
64.	The company shall strictly comply with the rules and regulations under Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended.	Complied. The company is strictly complying with the rules and regulations under Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended.
65.	The project authority shall strictly comply with the provisions made in Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosive and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.	Complied Please refer to the compliance of condition no. 81 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

66.	Storage of flammable chemicals shall be sufficiently away from the production area.	Complied. Dedicated storage facility of flammable chemicals provided at safer distance from production area as per PESO approval.
67.	Sufficient no. of fire extinguishers shall be provided near the plant and storage area.	Complied. Sufficient no. of fire hydrant system and extinguishers are provided near the plant and storage area.
68.	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.	Complied. All necessary precautionary measures are taken to avoid any kind of accident during storage and handling of toxic/hazardous chemicals. HAZOP and Risk assessment system is in place. Induction/Refresher/specific training system is carried out on a regular basis for all employees. 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.
69.	All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	Complied. All the toxic/hazardous chemicals are stored in optimum quantity and all necessary permissions in this regard are obtained before commencing the expansion activities. Maintaining the storage concept.
70.	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	Complied. Unit strictly comply with all the mitigation measures and safeguards that are suggested in the Risk Assessment report.
71.	Only flameproof electrical fittings shall be provided in the plant premises.	Complied. Only flameproof electrical fittings are provided in the plant premises. Please refer to the compliance of condition no. 89 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
72.	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.	Complied. Unit is ensuring minimum storage of hazardous chemicals. Most of our raw materials are handled through small capacity tanks/containers.

73.	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.	Complied. <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 percentage of total capacity. • Hazardous chemical storage areas are fenced properly to avoid unauthorized entry.
74.	Handling and charging of the chemicals shall be done in closed manner by pumping or vacuum transfer so that minimal human exposure occurs.	Complied. Unit strictly follows all the standards for handling and pumping or vacuum transfer of chemicals for reduction of human exposure.
75.	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	Complied Yes Unit has tie up with nearby health care units. (Jayaben Modi Hospital, 32 Kms) Please refer to the compliance of condition no. 93 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
76.	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.
77.	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 made readily available in adequate quantity.
78.	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. Please refer to the compliance of condition no. 97 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
79.	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	Complied. OHC is maintaining all the records and Pre-employment and periodical medical examinations for all the workers are done as per the Factories Act and Rules. Please refer to the compliance of condition no. 98 of B.2.4 of EC File No.

	Factory Acts and Rules.	SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
80.	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act and Rules.	Complied. Transportation of hazardous chemicals is being done as per the provisions of the Motor Vehicle Act.
81.	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	Complied. Unit has implemented all the mitigation and recommendations mentioned in the EIA report .
82.	Necessary permissions from various authorities like PESO, Factory Inspectors and others shall be obtained prior to commissioning of the project.	Complied. Necessary permission has been taken from PESO. Factory Licence has been obtained from Factory Inspectorate (DISH), Govt. of Gujarat.
A.6 NOISE:		
83.	The overall noise level in and around the plant area shall be kept within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 and Rules.	Complied. Adequate measures are being taken to keep ambient noise well within the prescribed limits. Monthly Ambient Noise monitoring is being conducted by a MoEFFandCC recognized and NABL accredited laboratory. Please refer to the compliance of condition no. 106 of B.2.5 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
A.7 CLEANER PRODUCTION AND WASTE MINIMIZATION:		
84.	The company shall undertake various waste minimization measures including: a) Metering and control of quantities of active ingredients to minimize waste. b) Use of automated and enclosed filling to minimize spillage. c) Use of close feed system into batch reactors. d) Regular preventive maintenance for avoiding leakage, spillage etc. e) Dry cleaning / mopping of floor instead of floor washing. f) Regular preventive maintenance for avoiding leakage, spillage etc.	Complied. Unit is undertaking all the measures for waste minimization. Please refer to the compliance of condition no. 108 of B.2.6 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
A.8 GREEN BELT AND OTHER PLANTATION:		
85.	The unit shall develop green belt within	Complied.

	premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.	The unit has developed Green Belt as per CPCB guidelines within as well as outside the premises and will be continuing necessary activities to continue raising the green belt area. Please refer to the compliance of condition no. 109 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
B.	OTHER CONDITIONS:	
86.	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down the shall not be restarted until the desired efficiency of the control equipment has been achieve.	Complied. Unit has provided the system to close down the operation in the event of failure of any pollution control equipment.
87.	All the recommendations / commitments made in the EIA report of the project prepared by M/s. Jyoti Om Chemical Research Centre Pvt. Ltd., Ankleshwar and submitted vide letter no. NIL date 09/02/2015 shall be implemented in letter and spirit.	Complied. All the recommendations / commitments made in the EIA report are implemented.
88.	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB).	Complied Unit strictly adheres to the stipulations made by the Gujarat Pollution Control Board (GPCB).
89.	During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or stormwater.	Complied. Unit has provided a garland drain to avoid spillage mixing with stormwater.
90.	Pucca flooring / Impervious layer shall be provided in the work areas chemical storage areas and chemical handling areas to minimize soil contamination.	Complied. Pucca flooring is provided in the areas of chemical handling to prohibit soil contamination.
91.	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.
92.	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without	Complied. Unit has taken the following Environment Clearances: 1. File No.: SEIAA/GUJ/EC/5(f)/342/2017, Date of Issue:

	obtaining prior Environment Clearance from the concerned authority.	<p>30/12/2017,</p> <p>2. File No.: SEIAA/GUJ/EC/5(f)/894/2019, Date of Issue: 19/06/2019,</p> <p>3. File No.: SEIAA/GUJ/EC/5(f)/1595/2020, Date of Issue: 24/12/2020,</p> <p>4. File No.: SEIAA/GUJ/EC/5(f)/1161/2021, Date of Issue: 02/07/2021,</p> <p>5. File No.: SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022,</p> <p>6. File No.: SEIAA/GUJ/EC/5(f)/2533/2022, Date of Issue: 28/10/2022</p> <p>The unit will take EC amendment if further expansion or modifications in the plant.</p>
93.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	<p>Complied.</p> <p>Unit assures to comply with all the requirements as per the Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.</p>
94.	The company shall undertake socio-economic developmental / community welfare activities as per the CSR Rules 2014.	<p>Complied.</p> <p>The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas. Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
95.	The project proponent shall comply with all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	<p>Complied.</p> <p>The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas. Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
96.	The project management shall ensure that the unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	<p>Complied.</p> <p>Unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report.</p>

The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.

Complied.

Unit informed 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.

Advertisement was published in Times of India (Ahmedabad) Edition and Gujarat Samachar on 14th June 2016.

The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the website of SEIAA / SEAC / GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.

[illegible][illegible]

Publication in the newspaper got delayed due to late receipt

		of granted EC from SEIAA, Gandhinagar.
99.	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 assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
100.	It shall be mandatory for the project management to submit a half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned . on 1st June and 1st December of each calendar year.	Complied. Unit is submitting the six monthly compliance report regularly.
101.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted. Unit assured that no False/Fabricated data is submitted herewith.
102.	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	Complied. Unit is adhering to stipulations of Gujarat Pollution Control Board.
103.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	Noted.
104.	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	Complied. Company is implementing these conditions in a time bound manner.
105.	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Not Applicable as the Unit has not taken a loan from any bank. The project was self financed.

106.	This environmental clearance is valid for seven years from the date of issue.	Noted.
107.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act,2010.	Noted.

**Environment Compliance Report of
EC File No.SEIAA/GUJ/EC/5(f)/1342/2017,
Dated: 30/12/2017**

Environment Clearance Compliance report for period October 23 to March 24

File No.: SEIAA/GUJ/EC/5(f)/1342/2017, Dated: 30/12/2017

Sr. No.	CONDITIONS	COMPLIANCE
1.	Subject of the Environmental clearance order no. SEIAA/GUJ/EC/5(f)/335/2016, Dated: 20/05/2016 have been amended and shall be read as under: Sub: Environmental Clearance to M/s. Aarti Industries Limited for setting up of the proposed expansion for manufacturing of Synthetic organic chemicals at Plot no: 756/4: AandB, 756/6 and 779,756: 2A and2B and 756: 3A and 3B GIDC- Jhagadia, Dist: Bharuch In Category 5(f) of Schedule annexed with EIA Notification dated 14/09/2006	Noted. The stated condition has been amended. Please refer to the EC File No. SEIAA/GUJ/EC/5(f)/2533/2022, Date of Issue: 28/10/2022.
2	Rest of the conditions of the Environment Clearance orders of SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016 shall remain unchanged.	Noted.

**Environment Compliance Report of
EC File No.SEIAA/GUJ/EC/5(f)/894/2019,
Dated: 19/06/2019**

Environment Clearance Compliance report for period October 23 to March 24

File No.: SEIAA/GUJ/EC/5(f)/894/2019 Dated 19/06/2019

SR. NO.	CONDITIONS	COMPLIANCE
1.	Condition No. 16, 17, 18, 19, 20, 21, 24, 25, 26, 27, 29 and 55 of the environmental clearance order no. SEWAAIGUJIEC/S(f)/335/2016 dated 20/05/2016 and amended vide letter No. SEIAAIGUJ/EC/5(f)/1342/2017 dated 30/12/2017 have been amended and shall be read as under:	Noted.
Condition no 16.	Total industrial effluent generated (408.336 KLD) shall be send to the sister concern unit i.e. Aarti Industries Ltd (Unit-I), Plot No. 758/1, 2 and 3, GIDC Estate, Jhagadia, Dist: Bharuch Located at adjoining plot for treatment.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 16 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
Condition no 17.	Unit shall provide separate pipelines with individual marking for concentrate and dilute effluent generated from process and from utilities sending to the sister concern unit i.e. Aarti Industries Ltd (Unit-I) located at the adjoining plot for treatment.	
Condition no 18.	Unit shall recycle recovered water to the tune of 643.28 KLD (273.28 KL from Aarti Industries Limited (Unit-II) + 370 KLD from combined ETP located at sister concern unit i.e. Aarti Industries Limited (Unit-I))	
Condition no 19.	Unit shall provide separate pipeline with individual marking for recovered water from sister concern unit i.e. Aarti Industries Limited (Unit-I)	
Condition no 20.	Recovered water from combined ETP of Unit I of 370 KLD and recovered water of 273.28 from within premises shall be reused in cooling tower and process.	
Condition no 21.	The domestic wastewater (38 KLD) shall	Complied.

	be send to sister concern unit i.e. Aarti Industries Ltd (Unit-I) Located at the adjoining plot for treatment in Combined STP and after treatment the treated domestic wastewater 30 KLD shall be received back and utilized for gardening/plantation within own premises.	The stated condition has been amended. Please refer to the compliance of condition no. 19 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
Condition no 24.	Proper Logbook of the effluent quantity and quality send to sister concern unit i.e. Aarti Industries Ltd (Unit-I) located at the adjoining plot, reuse etc. shall be maintained and shall be furnished to the GPCB from time to time.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 22 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
Condition no 25.	Effluent shall be send to the sister concern unit i.e. Aarti Industries Limited (Unit-I) for treatment in combined ETP and shall not be allowed to discharge anywhere else or not allowed to mix with storm water.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 16 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
Condition no 26.	The unit shall provide metering facility at the outlet and inlet of the wastewater discharging to the sister concern unit i.e. Aarti Industries Ltd (Unit-I) located at the adjoining plot and maintain the record for the same.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 21 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
Condition no 27.	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.	Complied. ETP performance is being evaluated and monitored on a regular basis.
Condition no 29.	Imported coal to the tune of 11.02 MT/hr shall be used as a fuel for each Steam Boiler having capacity 30 TPH (2 Boilers).	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
Condition no 55.	Silica and Insulation waste shall be disposed off at the nearby common TSDF	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No.

		SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.																																																													
2.	The following conditions shall be added in environmental clearance order no. SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016 and amended vide letter no. SEIAA/GUJ/EC/5(f)/1342/2017 dated 30/12/2017 and shall be as under:	<p>Complied.</p> <p>The stated condition has been amended.</p> <p>Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>																																																													
<p>➤ Hazardous waste management shall be as under:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Type of Hazardous Waste</th> <th>Source of Generation</th> <th>As per CTE-72020</th> <th>Proposed Scenario</th> <th>Total after EC Amendment</th> <th>Category No.</th> <th>Mode of Disposal</th> </tr> </thead> <tbody> <tr> <td rowspan="3">1.</td> <td>ETP Residue after evaporation</td> <td rowspan="2">ETP Plant</td> <td>50 MT/Y</td> <td>-50 MT/Y</td> <td>0</td> <td rowspan="3">35.3</td> <td rowspan="2">Collection, Storage within factory premises. Transportation and disposal at common TSDF by M/s BEIL Ankleswar</td> </tr> <tr> <td>ETP Waste</td> <td>2880 MT/Y</td> <td>-2880 MT/Y</td> <td>0</td> </tr> <tr> <td>Silica</td> <td>Calcium Chloride Process</td> <td>10840 MT/Y</td> <td>0</td> <td>10840 MT/Y</td> <td>Collection, storage, transportation & disposal at approved TSDF site.</td> </tr> <tr> <td>2.</td> <td>Used oil</td> <td>Utility</td> <td>18.4 MT/Y</td> <td>0</td> <td>18.4 MT/Y</td> <td>5.1</td> <td>Collection, storage, transportation. Disposal by selling to registered re-</td> </tr> </tbody> </table>			Sr. No.	Type of Hazardous Waste	Source of Generation	As per CTE-72020	Proposed Scenario	Total after EC Amendment	Category No.	Mode of Disposal	1.	ETP Residue after evaporation	ETP Plant	50 MT/Y	-50 MT/Y	0	35.3	Collection, Storage within factory premises. Transportation and disposal at common TSDF by M/s BEIL Ankleswar	ETP Waste	2880 MT/Y	-2880 MT/Y	0	Silica	Calcium Chloride Process	10840 MT/Y	0	10840 MT/Y	Collection, storage, transportation & disposal at approved TSDF site.	2.	Used oil	Utility	18.4 MT/Y	0	18.4 MT/Y	5.1	Collection, storage, transportation. Disposal by selling to registered re-																											
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<p>Office : Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010 Phone No.:- (079) 232-32152, 232-41514 Fax No.:- (079) 232-22784 E-mail : msseiaa@gmail.com, Website:- www.seiaa.gujarat.gov.in</p>																																																															
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**Environment Compliance Report of
EC File No.SEIAA/GUJ/EC/5(f)/1595/2020,
Dated: 24/12/2020**

Environment Clearance Compliance report for period October 23 to March 24

File No.: SEIAA/GUJ/EC/5(f)/1595/2020 Dated 24/12/2020

Sr. No.	CONDITIONS	COMPLIANCE
1.	Condition no. 18, 19 and 20 of the environment clearance order no. SEIAA/GUJ/EC/5(f)/335/2016, dated 20.05.2016 have been amended and shall be read as under:	
I.	Subject shall be amended and read as under: Environment Clearance to M/s. Aarti Industries Limited for setting up of the proposed expansion for manufacturing of synthetic organic chemicals at plot no. Plot no. 756/2A and 2B, 756/4A and B, 756/7 , 756/5A and B, 756/6 and 779, 756: 3A and 3B GIDC -Jhagadia, Dist: Bharuch..... In category- 5(f) of the schedule annexed with EIA notification dated: 14/09/2006.	Noted. The stated condition has been amended. Please refer to the subject of EC File No. SEIAA/GUJ/EC/5(f)/2533/2022, Date of Issue: 28/10/2022.
II	Condition No. 18 shall now be read as under: Total 179.336 KL/Day of effluent from process, washing and ejector shall be treated in ETP followed by RO and MEE.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 16 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
III	Condition No. 19 shall now be read as under: Total 221 KL/day effluent from utilities shall be treated in RO and MEE.	
IV	Condition No. 20 shall now be read as under: Unit shall recycle recovered water to the tune of 668.78 KL/day	
2.	Condition no. 16, 17, 18, 19, 20, 21, 24, 25, 26, 29 and 55 of the environment clearance order no. SEIAA/GUJ/EC/5(f)/894/2019 have been amended and shall be read as under:	
i	Condition No. 16 shall now be read as under: Total industrial effluent 400.336 KLD shall be treated in house ETP followed by MEE and RO.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 16 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

ii	Condition No. 17 shall now be read as under: There shall be no separate pipeline for sending effluent to M/s. Aarti Industries Ltd. (Unit-II) to M/s. Aarti Industries Ltd. (Unit-I).	
iii	Condition No. 18 shall now be read as under: Unit shall recycle 668 KL/Day treated effluent i.e. RO permeate and MEE condensate.	
iv	Condition No. 19 shall now be read as under: Unit shall earmarked pipeline of treated effluent reused in process.	
v	Condition No. 20 shall now be read as under: Recovered water the tune of 668 KL/Day from MEE and RO shall be reuse in cooling tower and process.	
vi	Condition No. 21 shall now be read as under: Total domestic wastewater of 38 KL/Day shall be treated in in-house STP and shall be utilized in gardening/plantation within premises.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 19 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
vii	Condition No. 24 shall now be read as under: Proper logbook of ETP, RO, MEE and STP operation, effluent quality, quality of treated effluent reused in process and gardening/plantation; chemical and power consumption shall be maintained and shall be furnished to the GPCB time to time.	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 22 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
viii	Condition No. 25 shall now be read as under: There shall not be any discharge of effluent outside the factory premises and shall not be allowed to discharge anywhere else or not allowed to mix with	Complied. The stated condition has been amended. Please refer to the compliance of condition no. 16 and 17 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

	storm water.	
ix	<p>Condition No. 26 shall now be read as under:</p> <p>The unit shall provide metering facility at inlet and outlet of the effluent treatment plant, RO system, MEE plant and STP and maintain the record of the same.</p>	<p>Complied.</p> <p>The stated condition has been amended.</p> <p>Please refer to the compliance of condition no. 21` of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
x	<p>Condition No. 29 shall now be read as under:</p> <p>Imported coal to the tune of 11.12 MT/Hr shall be used as a fuel for each steam boiler (2 Nos- Cap: 30 TPH)</p>	<p>Complied.</p> <p>The stated condition has been amended.</p> <p>Please refer to the compliance of condition no. 23` of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
xi	<p>Condition No. 55 shall now be read as under:</p> <p>ETP waste, MEE salt, silica and insulation waste shall be disposed off at the common TSDF site.</p>	<p>Complied.</p> <p>The stated condition has been amended.</p> <p>Please refer to the compliance of condition no. 30` of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
	<p>Sr. No. 2 of EC-Amendment granted by SEIAA, Gujarat vide Letter No: SEIAA/GUJ/EC/5(f)/894/2019, dated 19th June 2019) shall be now read as under.</p>	<p>Complied.</p> <p>The stated condition has been amended.</p> <p>Please refer to the compliance of condition no. 30` of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>

➤ **Hazardous waste management shall be as under:**

Sr. No.	Type of Hazardous Waste	Source of Generation	As per EC- Year 2016	As per EC Amendme nt-Year 2019	As per Proposed EC amendme nt for ETP facility in Unit-II instead of Unit I	Total after EC amendme nt	Catego ry No.	Mode of Disposal
1.	ETP Residue after evaporation/M EE salt	ETP Plant	50 MT/Y	-50 MT/Y	+50 MT/Y	50 MT/Y	35.3	Collection, Storage within factory premises. Transportatio n and disposal at common TSDF site.
	ETP Waste		2880 MT/ Y	-2880 MT/Y	+2880 MT/Y	2880MT/Y		
	Silica	CaCl ₂ Process	10840 MT/ Y	10840 MT/Y	+0 MT/Y	10840 MT/Y		Collection, storage, transportation & disposal at approved TSDF site.
2.	Used oil	Utility	18.4 MT/Y	18.4 MT/Y	+0 MT/Y	18.4 MT/Y	5.1	Collection, storage, transportation. Disposal by selling to registered re-processor.
3.	Empty Barrels & Empty HDPE bags	R.M storage and finish good storage area	33 MT/Y	33 MT/Y	+0 MT/Y	33 MT/Y	33.3	Collection, storage, transportation, decontaminati on. Disposal by sending back to raw material supplier.
	Discarded Containers /Bags		15 MT/Y	15 MT/Y	0 MT/Y	15 MT/Y		Collection, storage, transportation & disposal by sale to registered recyclers/ waste filling.
4.	Distillation residue & Other waste (Spent carbon)	Process	1404 MT/Y	1404 MT/Y	0 MT/Y	1404 MT/Y	26.1	Collection, storage, transportation & disposal by incineration at CHWIF- SEPPL.
5.	Process residue		1613 MT/Y	1613 MT/Y	+0 MT/Y	1613 MT/Y		



6.	Spent Catalyst	Hydrogenation process	235 MT/Y	235 MT/Y	+0 MT/Y	235 MT/Y	35.2	Collection, storage, transportation & disposal by sale to registered regenerators.
7.	Hydrochloric acid (30%)	Scrubber	145272 MT/Y	145272 MT/Y	00	145272 MT/Y	D2	Collection, storage, transportation & reused in manufacturing of CaCl ₂ . OR sold to authorized actual end users having Rule 9 permission.
8.	Spent sulphuric acid	process	9300 MT/Y	9300 MT/Y	0	9300 MT/Y	D2	Collection, storage, transportation & sold to authorized actual end users having Rule 9 permission.

Rest of all the conditions of the Environment Clearance orders no **SEIAA/GUJ/EC/5(f)/335/2016** dated 20/05/2016 & Environment Clearance orders no **SEIAA/GUJ/EC/5(f)/894/2019** dated 19/06/2019 shall remain unchanged.

**Environment Compliance Report of
EC File No.SEIAA/GUJ/EC/5(f)/2533/2022,
Dated: 28/10/2022**

Environment Clearance Compliance report for period October 23 to March 24

File No.: SEIAA/GUJ/EC/5(f)/2533/2022 Dated 28/10/2022

SR. NO.	CONDITIONS	COMPLIANCE				
1.	<p><u>Merger the plot</u></p> <p>Merging of Environment clearance to M/s. Aarti Industries Limited (Unit-II) for setting up a manufacturing plant of “synthetic organic chemicals” (API and it's intermediates) at plot no. 756/2A and 2B, 756/3A and 3B, 756/4 and 4B, 756/5A and 5B, 756/6, 756/7, 756/8+9, 779 and 778, GIDC Notified Industrial Estate, Jhagadia. In category 5(f) of schedule annexed with EIA Notification dated 14109/2006.</p>	Noted.				
2.	<p><u>Change the CAS nos:</u></p> <p>Corrected CAS No. in product table for Group IA-Chlorination products and its derivatives: 90000 MT/Annum.</p> <table><tr><th>NAmE of Product</th><th>CAS no. in EC letter</th></tr><tr><td>Ortho Di Chloro Benzene (ODCB)/ Para Di Chloro Benzene (PDCB)/ Meta Di Chloro Benzene (MDCB) either/Or</td><td>95-50-1/106-46-7/ 541-73-1</td></tr></table>	NAmE of Product	CAS no. in EC letter	Ortho Di Chloro Benzene (ODCB)/ Para Di Chloro Benzene (PDCB)/ Meta Di Chloro Benzene (MDCB) either/Or	95-50-1/106-46-7/ 541-73-1	Noted.
NAmE of Product	CAS no. in EC letter					
Ortho Di Chloro Benzene (ODCB)/ Para Di Chloro Benzene (PDCB)/ Meta Di Chloro Benzene (MDCB) either/Or	95-50-1/106-46-7/ 541-73-1					

Annexure-2

Photographs of Greenbelt







Annexure-3

Leak Detection & Repair (LDAR) Monitoring Log Sheet															
Sr No	Plant	Section	Equipments	VOC Component	Emission Source	Apr-June 24					July-Sep 24				
						Initial VOC (ppm)	Status of Leak Point	Date of Leak Repair	VOC After Repair ppm	Compliance status	Initial VOC (ppm)	Status of Leak Point	Date of Leak Repair	VOC After Repair (ppm)	Compliance status
						23-May-2024					10-July-2024				
1	TCAN	Unloading point	Tanker bottom valve to 6ST0901	Aniline	Flanges - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
2					Valves - 5	0	Nil	-	-	Complied	0	Nil	-	-	Complied
3					Pump seals - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
4					Drain point - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
5					Sampling point - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
6					Tank top nozzels - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
7					Breather Valve - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
8					Side Man hole - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
9	TCAN	Transferring point	6ST0901 to 6R0901 (Reactor)	Aniline	Valves - 5	0	Nil	-	-	Complied	0	Nil	-	-	Complied
10					Sampling point - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
11					Drain point - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
12					Pump seals - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
13	TCAN	Fresh MCB storage	6ST0808 (DCPNA) to 6ST0904 (TCAN)	Benzene	Flanges/Valves - 11	0	Nil	-	-	Complied	0	Nil	-	-	Complied
14					Drain points - 7	0	Nil	-	-	Complied	0	Nil	-	-	Complied
15					Pump seals - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
16					Sampling point - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied

17					Breather valve - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
18					Top man hole - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
19					LT/PT Flanges - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
20	CLB	Benzene Day tank	6ST0101 to Bz Dryer	Benzene	Flanges - 3	0	Nil	-	-	Complied	0	Nil	-	-	Complied
21					Valves - 9	0	Nil	-	-	Complied	0	Nil	-	-	Complied
22					Pump seals - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
23					Drain point - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
24					Sampling point - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
25					Tank top nozzels - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
26					Breather Valve - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
27					Side Man hole - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
28	CLB	Benzene Vessel	Bz Dryer to 6V0106	Benzene	Valves - 3	0	Nil	-	-	Complied	0	Nil	-	-	Complied
29					Tank top nozzels - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
30					Breather Valve - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
31					Top man hole - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
32	CLB	Benzene Vessel	6V0106 to Chlorinator	Benzene	Flanges - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
33					Valves - 10	0	Nil	-	-	Complied	0	Nil	-	-	Complied
34					Pump seals - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
35					Drain point - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
36					Sampling point - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
37	CLB	Recovery	6V0107 (Reflux vessel) to 6V0106	Benzene	Valves - 6	0	Nil	-	-	Complied	0	Nil	-	-	Complied
38					Pump seals - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
39					Sampling point - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied

40	TCB	ODCB dryer	6ST0101 to ODCB Dryer	Benzene	Flanges - 6	0	Nil	-	-	Complied	0	Nil	-	-	Complied
41					Valves - 8	0	Nil	-	-	Complied	0	Nil	-	-	Complied
42	TCB	ODCB dryer	ODCB dryer to 6V0134	Benzene	Flanges - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
43					Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
44					View glass - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
45	TCB	ODCB dryer	6V0134 to Benzene day tank	Benzene	Flanges - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
46					Valves - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
47					Pump seals - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
48					Sampling point - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
49	GOLD	Methanol Underground tank	T01ST0205	Methanol	Flanges - 23	0	Nil	-	-	Complied	0	Nil	-	-	Complied
50					Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
51					Control Valve - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
52					NRV - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
53					Pump seals - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
54					Sampling point - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
55					Tank top - 3	0	Nil	-	-	Complied	0	Nil	-	-	Complied
56	GOLD	Methanol Collection vessel	1V0144	Methanol	Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
57					Flange joints - 14	0	Nil	-	-	Complied	0	Nil	-	-	Complied
58					Tank top - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
59					XV - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
60					NRV - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
61					Bottom Valve - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
62	GOLD	Liq Ammonia (25%) storage vessel	1ST0204	Ammonia	Bottom Valve - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
63					Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied

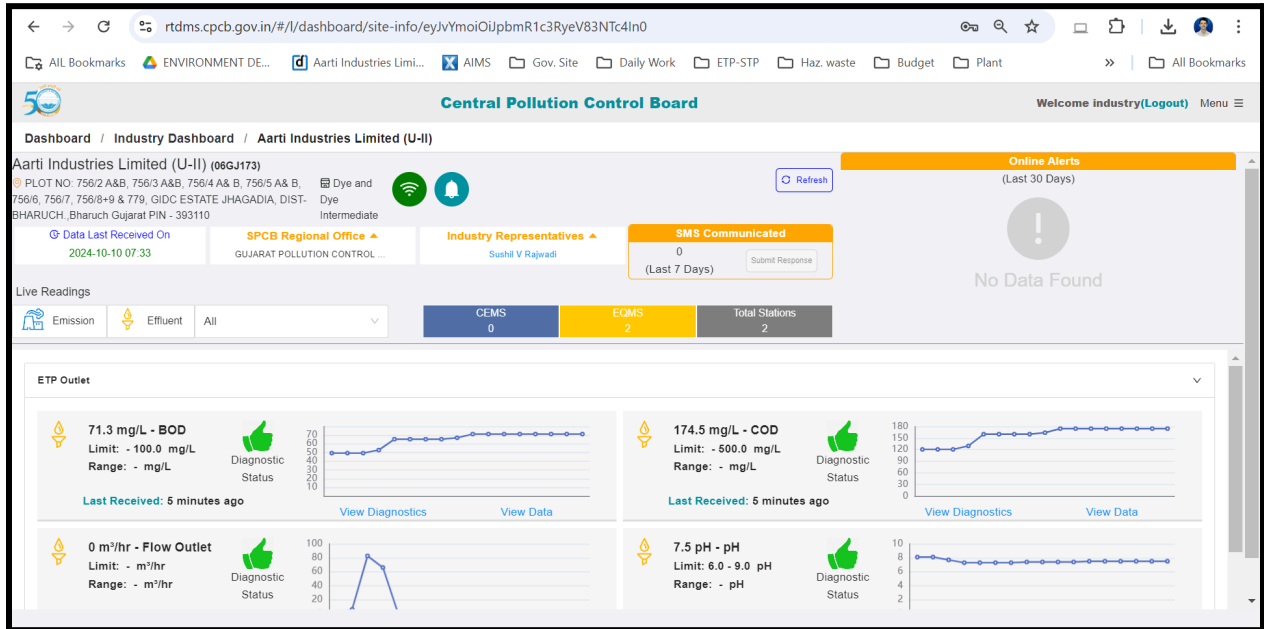
64					Flanges - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
65					Side Man hole - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
66					Pump seal - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
67					Drain point - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
68					NRV - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
69					Sampling point - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
70					Circulation line valve - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
71	ETP	Ammonia Steam Stripper	Ammonia Gaurd Scrubber (2ST0124)	Ammonia	Pump - 2P0149 A/B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
72					Blower - 2B0103 A/B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
73			Ammonia recovery scrubber (2ST0126)	Ammonia	Pump - 2P0151 A/B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
74					Pump - 2P0138 A/B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
75					Pump - 2P0144 A/B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
76					Pump - 2P0150 A/B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
77					Pump - 2P0139 A/B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
78					Pump - 2P0137 A/B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
79					Pump - 2P0106	0	Nil	-	-	Complied	0	Nil	-	-	Complied
80			Ammonia solution storage tank (2ST0125)	Ammonia	Bottom Valve - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
81					Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
82					Flanges - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
83					Drain point - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
84					Circulation line valve - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied

85	ETP		Ammonia Stripper bottom storage tank (2ST0310)	Ammonia	Bottom Valve - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
86					Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
87					Flanges - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
88					Drain point - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
89					Circulation line valve - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
90			Ammonia Stripper feed storage tank (2ST0102B)	Ammonia	Bottom Valve - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
91					Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
92					Flanges - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
93					Drain point - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
94					Circulation line valve - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
95	ETP	Primary Treatment	Neutralization Reactor-4 (2R0304 A & B)	VOC	Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
96					Flange joints - 10	0	Nil	-	-	Complied	0	Nil	-	-	Complied
97					View glass - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
98					Circulation line valve - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
99					Pump - 2P0304 A/B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
100			pH adjustment reactor (2R0102 A & B)	VOC	Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
101					Flange joints - 10	0	Nil	-	-	Complied	0	Nil	-	-	Complied
102					View glass - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
103					Circulation line valve - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
104					Pump - 2P0102 A/B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
105			pH adjustment	VOC	Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied

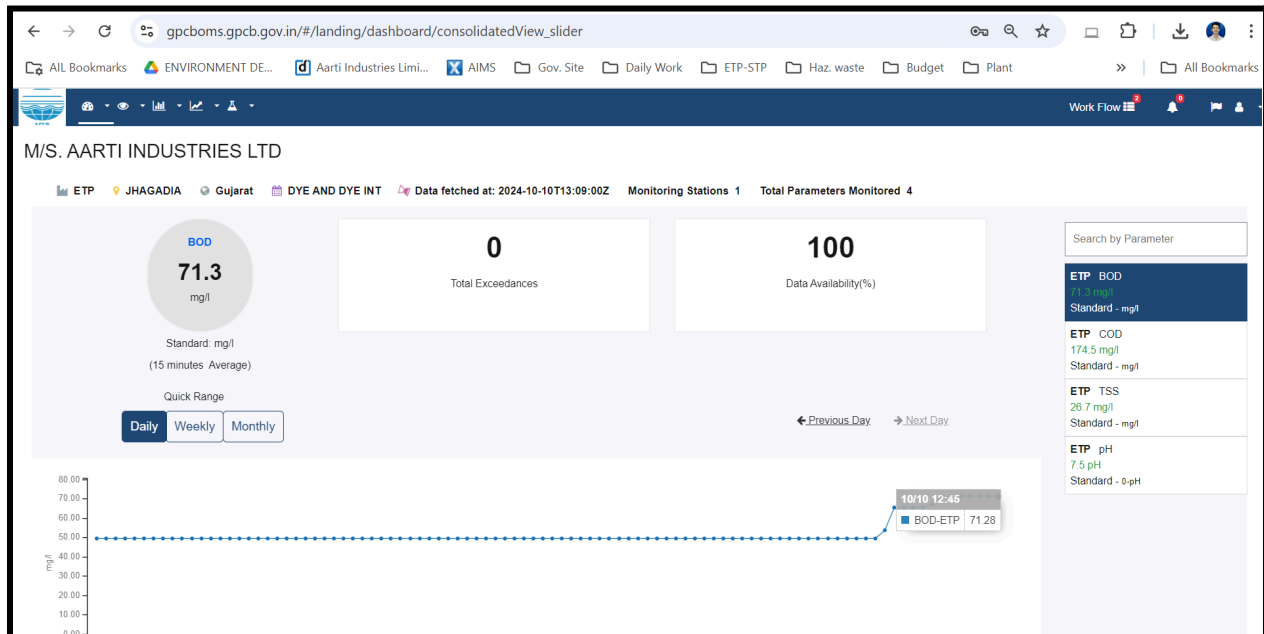
106			reactor (2R0104 A & B)		Flange joints - 10	0	Nil	-	-	Complied	0	Nil	-	-	Complied
107					View glass - 1	0	Nil	-	-	Complied	0	Nil	-	-	Complied
108					Circulation line valve - 2	0	Nil	-	-	Complied	0	Nil	-	-	Complied
109					Pump - 2P0104 A/B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
110	ETP	Bio Aeration	Primary Clarifier (2ST0104)	VOC	Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
111					Flange joints - 5	0	Nil	-	-	Complied	0	Nil	-	-	Complied
112					Pump - 2P0110 A&B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
113			Secondary Clarifier (2ST0108)	VOC	Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
114					Flange joints - 5	0	Nil	-	-	Complied	0	Nil	-	-	Complied
115					Pump - 2P0111 A&B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
116			Secondary Clarifier (2ST0110)	VOC	Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
117					Flange joints - 5	0	Nil	-	-	Complied	0	Nil	-	-	Complied
118					Pump - 2P0112 A&B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
119			Tertiary Clarifier (2ST0115)	VOC	Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
120					Flange joints - 5	0	Nil	-	-	Complied	0	Nil	-	-	Complied
121					Pump - 2P0113 A&B	0	Nil	-	-	Complied	0	Nil	-	-	Complied
122			Sludge sump (2ST0111)	VOC	Valves - 4	0	Nil	-	-	Complied	0	Nil	-	-	Complied
123					Flange joints - 5	0	Nil	-	-	Complied	0	Nil	-	-	Complied
124					Pump - 2P0116 A&B	0	Nil	-	-	Complied	0	Nil	-	-	Complied

Annexure - 4

OCEMS Connection



Screenshot of CPCB portal



Screenshot of GPCB portal

Annexure-5

Ambient Air Monitoring Report

Location 1 : PDA Gate (Nr. Safety Office)				
Month	PM10	PM2.5	SO2	NOx
	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3
Apr'24	84.43	35.18	19.39	23.27
May'24	83.53	34.60	21.47	24.31
Jun'24	87.44	33.08	19.95	23.26
Jul'24	79.13	26.51	19.47	22.29
Aug'24	71.64	23.02	17.83	20.27
Sep'24	77.23	26.30	19.35	22.28

Location 2 : Hydrogen Plant (Nr. Security Gate)				
Month	PM10	PM2.5	SO2	NOx
	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3
Apr'24	85.30	37.67	19.74	22.84
May'24	85.33	29.63	21.22	24.03
Jun'24	82.45	32.59	20.48	23.56
Jul'24	82.82	28.11	19.99	22.97
Aug'24	75.69	24.26	17.39	19.53
Sep'24	78.35	26.87	19.72	22.70

Location 3 : CLB Main Building				
Month	PM10	PM2.5	SO2	NOx
	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3
Apr'24	88.97	35.50	19.50	22.11
May'24	80.20	37.00	22.43	24.71
Jun'24	81.76	33.50	18.60	21.85
Jul'24	82.68	26.94	21.93	24.41
Aug'24	78.16	25.14	18.27	20.91
Sep'24	84.25	33.52	21.30	23.78



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008777F				
Test Report No.:	URA/24/08/AIL-J/A-004	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/004	Service Request Date	01/08/2024	
Sample ID No.:	URA/ID/A-24/08/004	Field Data Sheet No.	URA/FDS/A-24/08/004	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	01/08/2024	Date of Testing	02/08/2024	
Sampling Procedure:	As per CPCB Guideline			
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C	Avg.: 28 °C
	Rel. Humidity:	Min.: 84 %	Max.: 98 %	Avg.: 90 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.23
2.	Flow Rate of PM ₁₀	m ³ /min	1.08
3.	Volume of Air Sampled for PM ₁₀	m ³	1570.1
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**

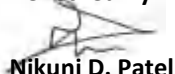
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	69.4	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	24.7	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.1	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	19.6	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 (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:

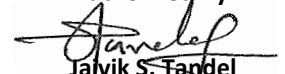
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-004	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/004	Service Request Date	01/08/2024
Sample ID No.:	URA/ID/A-24/08/004	Field Data Sheet No.	URA/FDS/A-24/08/004
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	01/08/2024	Date of Testing	02/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C
	Rel. Humidity:	Min.: 84 %	Max.: 98 %
		Avg.: 28 °C	Avg.: 90 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.23
2.	Flow Rate of PM ₁₀	m ³ /min	1.08
3.	Volume of Air Sampled for PM ₁₀	m ³	1570.1
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:

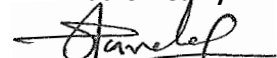
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008778F				
Test Report No.:	URA/24/08/AIL-J/A-005	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/005	Service Request Date	01/08/2024	
Sample ID No.:	URA/ID/A-24/08/005	Field Data Sheet No.	URA/FDS/A-24/08/005	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	01/08/2024	Date of Testing	02/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C	Avg.: 28 °C
	Rel. Humidity:	Min.: 84 %	Max.: 98 %	Avg.: 90 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.13
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1722.9
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**

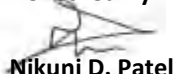
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	71.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	24.0	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.2	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	18.3	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	6.8	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 (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	4.1	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

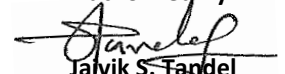
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

***** 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/24/08/AIL-J/A-005	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/005	Service Request Date	01/08/2024
Sample ID No.:	URA/ID/A-24/08/005	Field Data Sheet No.	URA/FDS/A-24/08/005
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	01/08/2024	Date of Testing	02/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C
	Rel. Humidity:	Min.: 84 %	Max.: 98 %
		Avg.: 28 °C	Avg.: 90 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.13
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1722.9
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	8.9	--	UERL/AIR/SOP/07

Remarks:

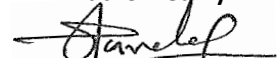
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008779F			
Test Report No.:	URA/24/08/AIL-J/A-006	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/006	Service Request Date	01/08/2024
Sample ID No.:	URA/ID/A-24/08/006	Field Data Sheet No.	URA/FDS/A-24/08/006
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	01/08/2024	Date of Testing	02/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C
	Rel. Humidity:	Min.: 84 %	Max.: 98 %
		Avg.: 28 °C	Avg.: 90 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.09
2.	Flow Rate of PM ₁₀	m ³ /min	1.15
3.	Volume of Air Sampled for PM ₁₀	m ³	1662.2
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	80.8	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	25.7	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	23	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	6.8	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 (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:


Javik S. Fardel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-006	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/006	Service Request Date	01/08/2024
Sample ID No.:	URA/ID/A-24/08/006	Field Data Sheet No.	URA/FDS/A-24/08/006
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	01/08/2024	Date of Testing	02/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C
	Rel. Humidity:	Min.: 84 %	Max.: 98 %
		Avg.: 28 °C	Avg.: 90 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.09
2.	Flow Rate of PM ₁₀	m ³ /min	1.15
3.	Volume of Air Sampled for PM ₁₀	m ³	1662.2
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	8.9	--	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. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC775324000008783F				
Test Report No.:	URA/24/08/AIL-J/A-010	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/010	Service Request Date	05/08/2024	
Sample ID No.:	URA/ID/A-24/08/010	Field Data Sheet No.	URA/FDS/A-24/08/010	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	05/08/2024	Date of Testing	06/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)			
Environmental Conditions during Sampling :	Temp.:	Min.: 26 °C	Max.: 30 °C	Avg.: 28 °C
	Rel. Humidity:	Min.: 86 %	Max.: 98 %	Avg.: 91 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.28
2.	Flow Rate of PM ₁₀	m ³ /min	1.07
3.	Volume of Air Sampled for PM ₁₀	m ³	1558.8
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**

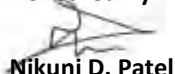
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	72.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	21.8	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.6	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	22.4	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	5.3	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 (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	2.4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

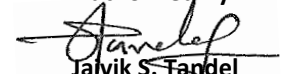
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

***** 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/24/08/AIL-J/A-010	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/010	Service Request Date	05/08/2024
Sample ID No.:	URA/ID/A-24/08/010	Field Data Sheet No.	URA/FDS/A-24/08/010
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	05/08/2024	Date of Testing	06/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)		
Environmental Conditions during Sampling :	Temp.:	Min.: 26 °C	Max.: 30 °C
	Rel. Humidity:	Min.: 86 %	Max.: 98 %
		Avg.: 28 °C	Avg.: 91 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.28
2.	Flow Rate of PM ₁₀	m ³ /min	1.07
3.	Volume of Air Sampled for PM ₁₀	m ³	1558.8
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	17.7	--	UERL/AIR/SOP/07

Remarks:

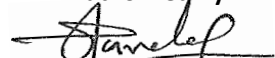
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC775324000008784F				
Test Report No.:	URA/24/08/AIL-J/A-011	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/011	Service Request Date	05/08/2024	
Sample ID No.:	URA/ID/A-24/08/011	Field Data Sheet No.	URA/FDS/A-24/08/011	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	05/08/2024	Date of Testing	06/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)			
Environmental Conditions during Sampling :	Temp.:	Min.: 26 °C	Max.: 30 °C	Avg.: 28 °C
	Rel. Humidity:	Min.: 86 %	Max.: 98 %	Avg.: 91 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.49
2.	Flow Rate of PM ₁₀	m ³ /min	1.16
3.	Volume of Air Sampled for PM ₁₀	m ³	1704.5
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**

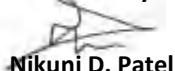
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	84.2	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	25.7	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	15	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	18.5	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	6.4	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 (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:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-011	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/011	Service Request Date	05/08/2024
Sample ID No.:	URA/ID/A-24/08/011	Field Data Sheet No.	URA/FDS/A-24/08/011
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	05/08/2024	Date of Testing	06/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)		
Environmental Conditions during Sampling :	Temp.:	Min.: 26 °C	Max.: 30 °C
	Rel. Humidity:	Min.: 86 %	Max.: 98 %
		Avg.: 28 °C	Avg.: 91 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.49
2.	Flow Rate of PM ₁₀	m ³ /min	1.16
3.	Volume of Air Sampled for PM ₁₀	m ³	1704.5
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:

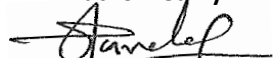
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008885F				
Test Report No.:	URA/24/08/AIL-J/A-012	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/012	Service Request Date	05/08/2024	
Sample ID No.:	URA/ID/A-24/08/012	Field Data Sheet No.	URA/FDS/A-24/08/012	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	05/08/2024	Date of Testing	06/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:		AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 26 °C	Max.: 30 °C	Avg.: 28 °C
	Rel. Humidity:	Min.: 86 %	Max.: 98 %	Avg.: 91 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.27
2.	Flow Rate of PM ₁₀	m ³ /min	1.17
3.	Volume of Air Sampled for PM ₁₀	m ³	1703.8
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**

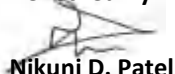
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	72.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	23.5	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.6	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	20.1	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	8.9	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 (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	4.1	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

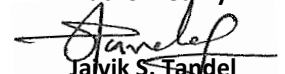
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

***** 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/24/08/AIL-J/A-012	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/012	Service Request Date	05/08/2024
Sample ID No.:	URA/ID/A-24/08/012	Field Data Sheet No.	URA/FDS/A-24/08/012
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	05/08/2024	Date of Testing	06/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 26 °C	Max.: 30 °C
	Rel. Humidity:	Min.: 86 %	Max.: 98 %
		Avg.: 28 °C	Avg.: 91 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.27
2.	Flow Rate of PM ₁₀	m ³ /min	1.17
3.	Volume of Air Sampled for PM ₁₀	m ³	1703.8
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	8.8	--	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. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC775324000008789F				
Test Report No.:	URA/24/08/AIL-J/A-016	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/016	Service Request Date	08/08/2024	
Sample ID No.:	URA/ID/A-24/08/016	Field Data Sheet No.	URA/FDS/A-24/08/016	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	08/08/2024	Date of Testing	09/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 78 %	Max.: 91 %	Avg.: 87 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

➤ **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	1.09
3.	Volume of Air Sampled for PM ₁₀	m ³	1589.2
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**

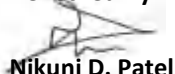
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	81.4	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	30.5	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	20.5	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	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:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-016	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/016	Service Request Date	08/08/2024
Sample ID No.:	URA/ID/A-24/08/016	Field Data Sheet No.	URA/FDS/A-24/08/016
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	08/08/2024	Date of Testing	09/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C
	Rel. Humidity:	Min.: 78 %	Max.: 91 %
		Avg.: 29 °C	Avg.: 87 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

➤ 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	1.09
3.	Volume of Air Sampled for PM ₁₀	m ³	1589.2
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:

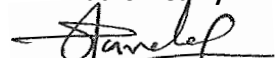
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC775324000008790F				
Test Report No.:	URA/24/08/AIL-J/A-017	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/017	Service Request Date	08/08/2024	
Sample ID No.:	URA/ID/A-24/08/017	Field Data Sheet No.	URA/FDS/A-24/08/017	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	08/08/2024	Date of Testing	09/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 78 %	Max.: 91 %	Avg.: 87 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.33
2.	Flow Rate of PM ₁₀	m ³ /min	1.12
3.	Volume of Air Sampled for PM ₁₀	m ³	1635.0
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**

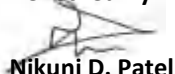
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	77.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	27.0	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16.6	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	16.8	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	10.4	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 (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	2.4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

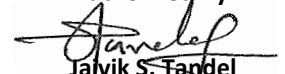
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

***** 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/24/08/AIL-J/A-017	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/017	Service Request Date	08/08/2024
Sample ID No.:	URA/ID/A-24/08/017	Field Data Sheet No.	URA/FDS/A-24/08/017
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	08/08/2024	Date of Testing	09/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C
	Rel. Humidity:	Min.: 78 %	Max.: 91 %
		Avg.: 29 °C	Avg.: 87 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.33
2.	Flow Rate of PM ₁₀	m ³ /min	1.12
3.	Volume of Air Sampled for PM ₁₀	m ³	1635.0
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	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

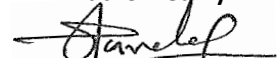
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008791F				
Test Report No.:	URA/24/08/AIL-J/A-018	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/018	Service Request Date	08/08/2024	
Sample ID No.:	URA/ID/A-24/08/018	Field Data Sheet No.	URA/FDS/A-24/08/018	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	08/08/2024	Date of Testing	09/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:		AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 78 %	Max.: 91 %	Avg.: 87 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

➤ **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	1.11
3.	Volume of Air Sampled for PM ₁₀	m ³	1595.1
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	86.7	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	30.0	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.4	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	21.8	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 (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:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-018	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/018	Service Request Date	08/08/2024
Sample ID No.:	URA/ID/A-24/08/018	Field Data Sheet No.	URA/FDS/A-24/08/018
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	08/08/2024	Date of Testing	09/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C
	Rel. Humidity:	Min.: 78 %	Max.: 91 %
		Avg.: 29 °C	Avg.: 87 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

➤ 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	1.11
3.	Volume of Air Sampled for PM ₁₀	m ³	1595.1
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	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

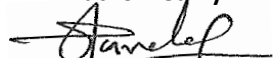
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC775324000008795F				
Test Report No.:	URA/24/08/AIL-J/A-022	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/022	Service Request Date	13/08/2024	
Sample ID No.:	URA/ID/A-24/08/022	Field Data Sheet No.	URA/FDS/A-24/08/022	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	13/08/2024	Date of Testing	14/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)			
Environmental Conditions during Sampling :	Temp.:	Min.: 26 °C	Max.: 33 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 80 %	Max.: 96 %	Avg.: 88 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.21
2.	Flow Rate of PM ₁₀	m ³ /min	1.15
3.	Volume of Air Sampled for PM ₁₀	m ³	1670.5
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**

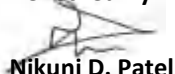
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	77.5	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	22.6	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.1	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	19.6	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 (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:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-022	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/022	Service Request Date	13/08/2024
Sample ID No.:	URA/ID/A-24/08/022	Field Data Sheet No.	URA/FDS/A-24/08/022
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	13/08/2024	Date of Testing	14/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)		
Environmental Conditions during Sampling :	Temp.:	Min.: 26 °C	Max.: 33 °C
	Rel. Humidity:	Min.: 80 %	Max.: 96 %
		Avg.: 29 °C	Avg.: 88 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.21
2.	Flow Rate of PM ₁₀	m ³ /min	1.15
3.	Volume of Air Sampled for PM ₁₀	m ³	1670.5
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	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

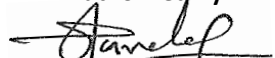
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008796F				
Test Report No.:	URA/24/08/AIL-J/A-023	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/023	Service Request Date	13/08/2024	
Sample ID No.:	URA/ID/A-24/08/023	Field Data Sheet No.	URA/FDS/A-24/08/023	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	13/08/2024	Date of Testing	14/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:		AAQM station - 2 Near Security Gate (Hydrogen Plant)		
Environmental Conditions during Sampling :	Temp.:	Min.: 26 °C	Max.: 33 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 80 %	Max.: 96 %	Avg.: 88 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.32
2.	Flow Rate of PM ₁₀	m ³ /min	1.13
3.	Volume of Air Sampled for PM ₁₀	m ³	1648.9
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**

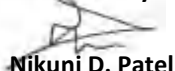
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	82.4	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	25.2	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	20.5	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	21.4	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	8.1	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	12	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:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-023	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/023	Service Request Date	13/08/2024
Sample ID No.:	URA/ID/A-24/08/023	Field Data Sheet No.	URA/FDS/A-24/08/023
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	13/08/2024	Date of Testing	14/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)		
Environmental Conditions during Sampling :	Temp.:	Min.: 26 °C	Max.: 33 °C
	Rel. Humidity:	Min.: 80 %	Max.: 96 %
		Avg.: 29 °C	Avg.: 88 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.32
2.	Flow Rate of PM ₁₀	m ³ /min	1.13
3.	Volume of Air Sampled for PM ₁₀	m ³	1648.9
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:

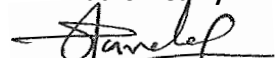
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008797F				
Test Report No.:	URA/24/08/AIL-J/A-024	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/024	Service Request Date	13/08/2024	
Sample ID No.:	URA/ID/A-24/08/024	Field Data Sheet No.	URA/FDS/A-24/08/024	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	13/08/2024	Date of Testing	14/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:		AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 26 °C	Max.: 33 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 80 %	Max.: 96 %	Avg.: 88 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.09
2.	Flow Rate of PM ₁₀	m ³ /min	1.09
3.	Volume of Air Sampled for PM ₁₀	m ³	1575.5
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**

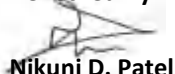
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	88.1	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	29.2	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	21.7	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	24	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	5.1	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	14.6	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	4.1	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

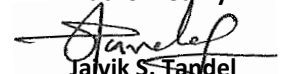
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

***** 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/24/08/AIL-J/A-024	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/024	Service Request Date	13/08/2024
Sample ID No.:	URA/ID/A-24/08/024	Field Data Sheet No.	URA/FDS/A-24/08/024
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	13/08/2024	Date of Testing	14/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 26 °C	Max.: 33 °C
	Rel. Humidity:	Min.: 80 %	Max.: 96 %
		Avg.: 29 °C	Avg.: 88 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.09
2.	Flow Rate of PM ₁₀	m ³ /min	1.09
3.	Volume of Air Sampled for PM ₁₀	m ³	1575.5
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	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

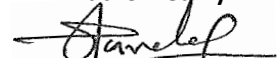
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008801F				
Test Report No.:	URA/24/08/AIL-J/A-028	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/028	Service Request Date	16/08/2024	
Sample ID No.:	URA/ID/A-24/08/028	Field Data Sheet No.	URA/FDS/A-24/08/028	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	16/08/2024	Date of Testing	17/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 31 °C	Avg.: 28 °C
	Rel. Humidity:	Min.: 78 %	Max.: 89 %	Avg.: 85 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.07
2.	Flow Rate of PM ₁₀	m ³ /min	1.12
3.	Volume of Air Sampled for PM ₁₀	m ³	1617.5
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**

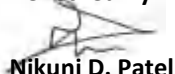
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	79.4	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	24.5	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	14.8	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	16	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	6.8	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 (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	4.1	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

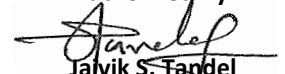
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

***** 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/24/08/AIL-J/A-028	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/028	Service Request Date	16/08/2024
Sample ID No.:	URA/ID/A-24/08/028	Field Data Sheet No.	URA/FDS/A-24/08/028
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	16/08/2024	Date of Testing	17/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 31 °C
	Rel. Humidity:	Min.: 78 %	Max.: 89 %
		Avg.: 28 °C	Avg.: 85 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.07
2.	Flow Rate of PM ₁₀	m ³ /min	1.12
3.	Volume of Air Sampled for PM ₁₀	m ³	1617.5
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	8.9	--	UERL/AIR/SOP/07

Remarks:

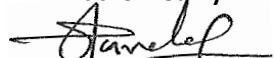
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008802F				
Test Report No.:	URA/24/08/AIL-J/A-029	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/029	Service Request Date	16/08/2024	
Sample ID No.:	URA/ID/A-24/08/029	Field Data Sheet No.	URA/FDS/A-24/08/029	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	16/08/2024	Date of Testing	17/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 31 °C	Avg.: 28 °C
	Rel. Humidity:	Min.: 78 %	Max.: 89 %	Avg.: 85 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

➤ **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	1.07
3.	Volume of Air Sampled for PM ₁₀	m ³	1571.6
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**

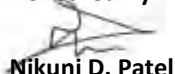
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	89.5	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	28.6	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.4	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	20.8	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	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	3.2	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

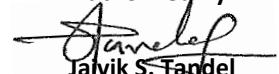
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

***** 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/24/08/AIL-J/A-029	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/029	Service Request Date	16/08/2024
Sample ID No.:	URA/ID/A-24/08/029	Field Data Sheet No.	URA/FDS/A-24/08/029
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	16/08/2024	Date of Testing	17/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 31 °C
	Rel. Humidity:	Min.: 78 %	Max.: 89 %
		Avg.: 28 °C	Avg.: 85 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

➤ 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	1.07
3.	Volume of Air Sampled for PM ₁₀	m ³	1571.6
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	8.8	--	UERL/AIR/SOP/07

Remarks:

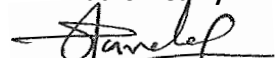
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008803F				
Test Report No.:	URA/24/08/AIL-J/A-030	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/030	Service Request Date	16/08/2024	
Sample ID No.:	URA/ID/A-24/08/030	Field Data Sheet No.	URA/FDS/A-24/08/030	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	16/08/2024	Date of Testing	17/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 31 °C	Avg.: 28 °C
	Rel. Humidity:	Min.: 78 %	Max.: 89 %	Avg.: 85 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

➤ **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	1.08
3.	Volume of Air Sampled for PM ₁₀	m ³	1557.1
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**

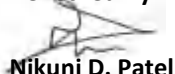
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	84.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	24.1	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.8	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	19.3	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	8.1	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:

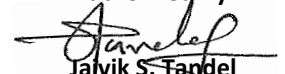
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-030	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/030	Service Request Date	16/08/2024
Sample ID No.:	URA/ID/A-24/08/030	Field Data Sheet No.	URA/FDS/A-24/08/030
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	16/08/2024	Date of Testing	17/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 31 °C
	Rel. Humidity:	Min.: 78 %	Max.: 89 %
		Avg.: 28 °C	Avg.: 85 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

➤ 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	1.08
3.	Volume of Air Sampled for PM ₁₀	m ³	1557.1
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	26.8	--	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. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008807F				
Test Report No.:	URA/24/08/AIL-J/A-034	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/034	Service Request Date	20/08/2024	
Sample ID No.:	URA/ID/A-24/08/034	Field Data Sheet No.	URA/FDS/A-24/08/034	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	20/08/2024	Date of Testing	21/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)			
Environmental Conditions during Sampling :	Temp.:	Min.: 25 °C	Max.: 30 °C	Avg.: 27 °C
	Rel. Humidity:	Min.: 84 %	Max.: 96 %	Avg.: 91 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

➤ **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**

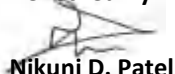
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	68.2	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	19.5	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	18.9	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	19.9	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	8.5	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	6.4	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 (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	3.2	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

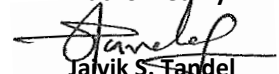
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Farid
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-034	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/034	Service Request Date	20/08/2024
Sample ID No.:	URA/ID/A-24/08/034	Field Data Sheet No.	URA/FDS/A-24/08/034
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	20/08/2024	Date of Testing	21/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)		
Environmental Conditions during Sampling :	Temp.:	Min.: 25 °C	Max.: 30 °C
	Rel. Humidity:	Min.: 84 %	Max.: 96 %
		Avg.: 27 °C	Avg.: 91 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

➤ 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:

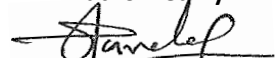
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008808F				
Test Report No.:	URA/24/08/AIL-J/A-035	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/035	Service Request Date	20/08/2024	
Sample ID No.:	URA/ID/A-24/08/035	Field Data Sheet No.	URA/FDS/A-24/08/035	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	20/08/2024	Date of Testing	21/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)			
Environmental Conditions during Sampling :	Temp.:	Min.: 25 °C	Max.: 30 °C	Avg.: 27 °C
	Rel. Humidity:	Min.: 84 %	Max.: 96 %	Avg.: 91 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

➤ **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**

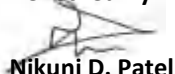
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	72.8	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	22.0	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.4	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	20.3	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 (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	2.4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

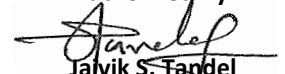
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

***** 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/24/08/AIL-J/A-035	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/035	Service Request Date	20/08/2024
Sample ID No.:	URA/ID/A-24/08/035	Field Data Sheet No.	URA/FDS/A-24/08/035
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	20/08/2024	Date of Testing	21/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)		
Environmental Conditions during Sampling :	Temp.:	Min.: 25 °C	Max.: 30 °C
	Rel. Humidity:	Min.: 84 %	Max.: 96 %
		Avg.: 27 °C	Avg.: 91 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

➤ 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	17.5	--	UERL/AIR/SOP/07

Remarks:

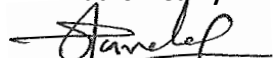
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008809F				
Test Report No.:	URA/24/08/AIL-J/A-036	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/036	Service Request Date	20/08/2024	
Sample ID No.:	URA/ID/A-24/08/036	Field Data Sheet No.	URA/FDS/A-24/08/036	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	20/08/2024	Date of Testing	21/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant			
Environmental Conditions during Sampling :	Temp.:	Min.: 25 °C	Max.: 30 °C	Avg.: 27 °C
	Rel. Humidity:	Min.: 84 %	Max.: 96 %	Avg.: 91 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.16
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1725.0
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**

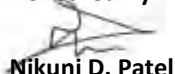
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	82.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	28.4	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	20.6	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	23.4	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 (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	4.9	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

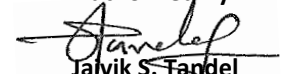
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

***** 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/24/08/AIL-J/A-036	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/036	Service Request Date	20/08/2024
Sample ID No.:	URA/ID/A-24/08/036	Field Data Sheet No.	URA/FDS/A-24/08/036
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	20/08/2024	Date of Testing	21/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 25 °C	Max.: 30 °C
	Rel. Humidity:	Min.: 84 %	Max.: 96 %
		Avg.: 27 °C	Avg.: 91 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.16
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1725.0
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:

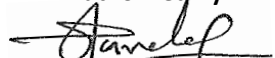
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008813F				
Test Report No.:	URA/24/08/AIL-J/A-040	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/040	Service Request Date	22/08/2024	
Sample ID No.:	URA/ID/A-24/08/040	Field Data Sheet No.	URA/FDS/A-24/08/040	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	22/08/2024	Date of Testing	23/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 33 °C	Avg.: 30 °C
	Rel. Humidity:	Min.: 77 %	Max.: 93 %	Avg.: 87 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

➤ **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	1.15
3.	Volume of Air Sampled for PM ₁₀	m ³	1693.3
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**

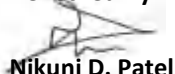
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	73.8	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	25.6	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	19.9	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	BDL (MDL:5.0)	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	10.4	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 (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:

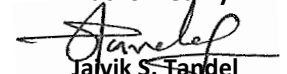
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-040	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/040	Service Request Date	22/08/2024
Sample ID No.:	URA/ID/A-24/08/040	Field Data Sheet No.	URA/FDS/A-24/08/040
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	22/08/2024	Date of Testing	23/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 33 °C
	Rel. Humidity:	Min.: 77 %	Max.: 93 %
		Avg.: 30 °C	Avg.: 87 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

➤ 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	1.15
3.	Volume of Air Sampled for PM ₁₀	m ³	1693.3
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:

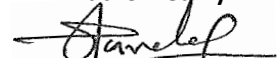
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008814F				
Test Report No.:	URA/24/08/AIL-J/A-041	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/041	Service Request Date	22/08/2024	
Sample ID No.:	URA/ID/A-24/08/041	Field Data Sheet No.	URA/FDS/A-24/08/041	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	22/08/2024	Date of Testing	23/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 33 °C	Avg.: 30 °C
	Rel. Humidity:	Min.: 77 %	Max.: 93 %	Avg.: 87 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.55
2.	Flow Rate of PM ₁₀	m ³ /min	1.13
3.	Volume of Air Sampled for PM ₁₀	m ³	1664.5
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**

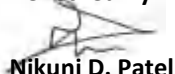
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	74.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	26.4	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	20.3	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	23	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	9.7	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 (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:

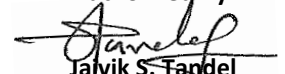
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-041	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/041	Service Request Date	22/08/2024
Sample ID No.:	URA/ID/A-24/08/041	Field Data Sheet No.	URA/FDS/A-24/08/041
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	22/08/2024	Date of Testing	23/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 33 °C
	Rel. Humidity:	Min.: 77 %	Max.: 93 %
		Avg.: 30 °C	Avg.: 87 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.55
2.	Flow Rate of PM ₁₀	m ³ /min	1.13
3.	Volume of Air Sampled for PM ₁₀	m ³	1664.5
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:

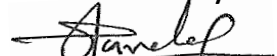
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC775324000008815F				
Test Report No.:	URA/24/08/AIL-J/A-042	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/042	Service Request Date	22/08/2024	
Sample ID No.:	URA/ID/A-24/08/042	Field Data Sheet No.	URA/FDS/A-24/08/042	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	22/08/2024	Date of Testing	23/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 33 °C	Avg.: 30 °C
	Rel. Humidity:	Min.: 77 %	Max.: 93 %	Avg.: 87 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.41
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1742.9
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**

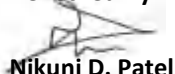
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	78.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	22.9	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	20.4	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	8.5	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 (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	3.2	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m ³	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

Remarks:

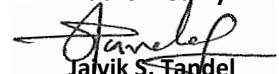
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

***** 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/24/08/AIL-J/A-042	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/042	Service Request Date	22/08/2024
Sample ID No.:	URA/ID/A-24/08/042	Field Data Sheet No.	URA/FDS/A-24/08/042
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	22/08/2024	Date of Testing	23/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 33 °C
	Rel. Humidity:	Min.: 77 %	Max.: 93 %
		Avg.: 30 °C	Avg.: 87 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.41
2.	Flow Rate of PM ₁₀	m ³ /min	1.19
3.	Volume of Air Sampled for PM ₁₀	m ³	1742.9
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	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

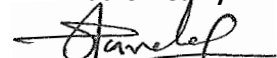
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008819F				
Test Report No.:	URA/24/08/AIL-J/A-046	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/046	Service Request Date	27/08/2024	
Sample ID No.:	URA/ID/A-24/08/046	Field Data Sheet No.	URA/FDS/A-24/08/046	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	27/08/2024	Date of Testing	28/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 29 °C	Avg.: 27 °C
	Rel. Humidity:	Min.: 83 %	Max.: 92 %	Avg.: 88 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.46
2.	Flow Rate of PM ₁₀	m ³ /min	1.12
3.	Volume of Air Sampled for PM ₁₀	m ³	1643.7
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**

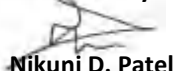
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	65.1	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	20.4	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	17.6	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	6.9	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 (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:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-046	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/046	Service Request Date	27/08/2024
Sample ID No.:	URA/ID/A-24/08/046	Field Data Sheet No.	URA/FDS/A-24/08/046
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	27/08/2024	Date of Testing	28/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 29 °C
	Rel. Humidity:	Min.: 83 %	Max.: 92 %
		Avg.: 27 °C	Avg.: 88 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.46
2.	Flow Rate of PM ₁₀	m ³ /min	1.12
3.	Volume of Air Sampled for PM ₁₀	m ³	1643.7
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	8.8	--	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. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008820F				
Test Report No.:	URA/24/08/AIL-J/A-047	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/047	Service Request Date	27/08/2024	
Sample ID No.:	URA/ID/A-24/08/047	Field Data Sheet No.	URA/FDS/A-24/08/047	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	27/08/2024	Date of Testing	28/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 29 °C	Avg.: 27 °C
	Rel. Humidity:	Min.: 83 %	Max.: 92 %	Avg.: 88 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.08
2.	Flow Rate of PM ₁₀	m ³ /min	1.18
3.	Volume of Air Sampled for PM ₁₀	m ³	1704.9
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**

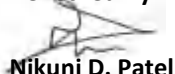
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	61.7	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	18.7	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	14.3	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	17.4	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 (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:

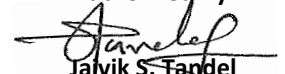
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-047	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/047	Service Request Date	27/08/2024
Sample ID No.:	URA/ID/A-24/08/047	Field Data Sheet No.	URA/FDS/A-24/08/047
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	27/08/2024	Date of Testing	28/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 29 °C
	Rel. Humidity:	Min.: 83 %	Max.: 92 %
		Avg.: 27 °C	Avg.: 88 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.08
2.	Flow Rate of PM ₁₀	m ³ /min	1.18
3.	Volume of Air Sampled for PM ₁₀	m ³	1704.9
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	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

Remarks:

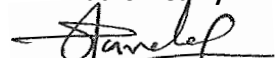
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008821F				
Test Report No.:	URA/24/08/AIL-J/A-048	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/048	Service Request Date	27/08/2024	
Sample ID No.:	URA/ID/A-24/08/048	Field Data Sheet No.	URA/FDS/A-24/08/048	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	27/08/2024	Date of Testing	28/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 29 °C	Avg.: 27 °C
	Rel. Humidity:	Min.: 83 %	Max.: 92 %	Avg.: 88 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.53
2.	Flow Rate of PM ₁₀	m ³ /min	1.16
3.	Volume of Air Sampled for PM ₁₀	m ³	1707.3
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**

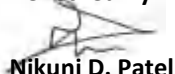
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	63.8	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	18.7	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16.5	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	19	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	12.3	180	IS: 5182 (Part 9)
6.	Ammonia (NH ₃)	µg/m ³	10.4	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 (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:

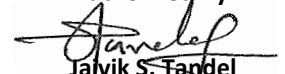
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-048	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/048	Service Request Date	27/08/2024
Sample ID No.:	URA/ID/A-24/08/048	Field Data Sheet No.	URA/FDS/A-24/08/048
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	27/08/2024	Date of Testing	28/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 29 °C
	Rel. Humidity:	Min.: 83 %	Max.: 92 %
		Avg.: 27 °C	Avg.: 88 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.53
2.	Flow Rate of PM ₁₀	m ³ /min	1.16
3.	Volume of Air Sampled for PM ₁₀	m ³	1707.3
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	8.8	--	UERL/AIR/SOP/07

Remarks:

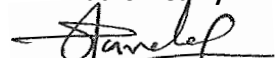
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008825F				
Test Report No.:	URA/24/08/AIL-J/A-052	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/052	Service Request Date	29/08/2024	
Sample ID No.:	URA/ID/A-24/08/052	Field Data Sheet No.	URA/FDS/A-24/08/052	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	29/08/2024	Date of Testing	30/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 75 %	Max.: 93 %	Avg.: 86 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.37
2.	Flow Rate of PM ₁₀	m ³ /min	1.06
3.	Volume of Air Sampled for PM ₁₀	m ³	1549.9
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**

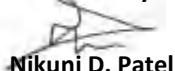
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	57.4	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	17.6	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	17.6	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	20	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 (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	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/24/08/AIL-J/A-052	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/052	Service Request Date	29/08/2024
Sample ID No.:	URA/ID/A-24/08/052	Field Data Sheet No.	URA/FDS/A-24/08/052
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	29/08/2024	Date of Testing	30/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 1 Near PDA Gate 2 (Safety office)		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C
	Rel. Humidity:	Min.: 75 %	Max.: 93 %
		Avg.: 29 °C	Avg.: 86 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	28/03/2024	27/03/2025
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.37
2.	Flow Rate of PM ₁₀	m ³ /min	1.06
3.	Volume of Air Sampled for PM ₁₀	m ³	1549.9
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:

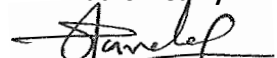
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008826F				
Test Report No.:	URA/24/08/AIL-J/A-053	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/053	Service Request Date	29/08/2024	
Sample ID No.:	URA/ID/A-24/08/053	Field Data Sheet No.	URA/FDS/A-24/08/053	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	29/08/2024	Date of Testing	30/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 75 %	Max.: 93 %	Avg.: 86 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UURL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UURL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

➤ **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	1.09
3.	Volume of Air Sampled for PM ₁₀	m ³	1573.5
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	66.8	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	20.7	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	16.8	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	19.3	80	IS: 5182 (Part 6)
5.	Ozone	µg/m ³	7.4	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 (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	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/24/08/AIL-J/A-053	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/053	Service Request Date	29/08/2024
Sample ID No.:	URA/ID/A-24/08/053	Field Data Sheet No.	URA/FDS/A-24/08/053
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	29/08/2024	Date of Testing	30/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 2 Near Security Gate (Hydrogen Plant)		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C
	Rel. Humidity:	Min.: 75 %	Max.: 93 %
		Avg.: 29 °C	Avg.: 86 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	28/03/2024	27/03/2025
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	28/03/2024	27/03/2025

➤ 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	1.09
3.	Volume of Air Sampled for PM ₁₀	m ³	1573.5
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. Tandel
(Manager - Operations)



TEST REPORT
(AMBIENT AIR MONITORING)

ULR - TC77532400008827F				
Test Report No.:	URA/24/08/AIL-J/A-054	Report Issue Date	06/09/2024	
Service Request form No.:	URA/SRF/08/054	Service Request Date	29/08/2024	
Sample ID No.:	URA/ID/A-24/08/054	Field Data Sheet No.	URA/FDS/A-24/08/054	
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	29/08/2024	Date of Testing	30/08/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant			
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C	Avg.: 29 °C
	Rel. Humidity:	Min.: 75 %	Max.: 93 %	Avg.: 86 %

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

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

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

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.36
2.	Flow Rate of PM ₁₀	m ³ /min	1.11
3.	Volume of Air Sampled for PM ₁₀	m ³	1622.4
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**

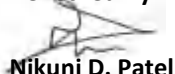
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM ₁₀	µg/m ³	65.6	100	IS: 5182 (Part 23)
2.	Particulate Matter PM _{2.5}	µg/m ³	23.8	60	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO ₂)	µg/m ³	14.6	80	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO ₂)	µg/m ³	17.2	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 (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:


Javik S. Tandel
(Manager - Operations)

TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.:	URA/24/08/AIL-J/A-054	Report Issue Date	06/09/2024
Service Request form No.:	URA/SRF/08/054	Service Request Date	29/08/2024
Sample ID No.:	URA/ID/A-24/08/054	Field Data Sheet No.	URA/FDS/A-24/08/054
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	29/08/2024	Date of Testing	30/08/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	AAQM station - 3 Near CLB Plant		
Environmental Conditions during Sampling :	Temp.:	Min.: 27 °C	Max.: 32 °C
	Rel. Humidity:	Min.: 75 %	Max.: 93 %
		Avg.: 29 °C	Avg.: 86 %

➤ Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	28/03/2024	27/03/2025
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	28/03/2024	27/03/2025

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.36
2.	Flow Rate of PM ₁₀	m ³ /min	1.11
3.	Volume of Air Sampled for PM ₁₀	m ³	1622.4
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:

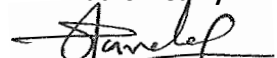
Opinion & Interpretation (if required): BDL: Below Detection Limit, MDL: Minimum Detection Limit.

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Javik S. Tandel
(Manager - Operations)

Annexure-7

Form No. 37 : Monitoring and Record of Volatile Organic Compounds

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: JADE CLB, TCA-M

2. Raw materials, by products and finished products involved in the process: CS₂, ANILINE, CL₂, BENZENE

3. Particulars of sampling:

Sr. No.	Location operation mentioned	Identified contaminated	Sampling instrument used	Airborne Contamination		
				Number of Samples	Range	Average
1	2	3	4	5	6	7
DATE: 28/09/24						
01	CLB PLANT GREENFIELD NEAR TANK (CSTOLOS)	CS ₂	VOC	01	0 PPM	0 PPM
02	CLB PLANT TANK AREA (CSTOLOS)	CS ₂	VOC	01	0 PPM	
03	CLB PLANT NEAR DELUGA STREET	CS ₂	VOC	01	0 PPM	
01	TCA-M PLANT TANK AREA NEAR PUMP (CPR920)	ANILINE	VOC	01	0.2 PPM	0.2 PPM
02	TCA-M PLANT TANK AREA NEAR PUMP (CPR920)	ANILINE	VOC	01	0.1 PPM	
03	TCA-M PLANT TANK AREA NEAR PUMP (CSTOLOS)	ANILINE	VOC	01	0.3 PPM	
01	CLB PLANT GREENFIELD NEAR PUMP (CPR920)	CHLORINE	CL ₂	01	0 PPM	0 PPM
02	CLB PLANT GREENFIELD NEAR PUMP (CPR920)	CHLORINE	CL ₂	01	0 PPM	
03	CLB PLANT GREENFIELD NEAR PUMP (CPR920)	CHLORINE	CL ₂	01	0 PPM	

ફોર્મ નંબર. ૩૭
રૂલ ૧૨-બી મુજબ

પ્રદૂષણ નીવારણ અંગેનું રજીસ્ટર

TWA concentrations (As given in Second Schedule)	Reference method	Number of workers exposed at the location being monitored	Remarks	Signature person taking sample	Name (In Block Letters)
8	9	10	11	12	13
1 PPM	DIGITAL P22 SENSOR	01	WITHIN RANGE		
1 PPM	DIGITAL P22 SENSOR	01	WITHIN RANGE		
1 PPM	DIGITAL P22 SENSOR	01	WITHIN RANGE		
2 PPM	DIGITAL P22 SENSOR	01	WITHIN RANGE		
2 PPM	DIGITAL P22 SENSOR	01	WITHIN RANGE		
2 PPM	DIGITAL P22 SENSOR	01	WITHIN RANGE		
2 PPM	DIGITAL P22 SENSOR	01	WITHIN RANGE		
2 PPM	DIGITAL P22 SENSOR	01	WITHIN RANGE		
2 PPM	DIGITAL P22 SENSOR	01	WITHIN RANGE		
2 PPM	DIGITAL P22 SENSOR	01	WITHIN RANGE		
0.5 PPM	DIGITAL P22 SENSOR	01	WITHIN RANGE		
0.5 PPM	DIGITAL P22 SENSOR	01	WITHIN RANGE		

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. OSTD
2. Raw materials, by products and finished products involved in the process. AMONIA, ANILINE, BENZENE, CHLORINE, METHANOL, ISOBUTELIN
3. Particulars of sampling.

Sr. No. અનુ. નંબર	Location operation mentioned સ્થળ	Identified contaminated પ્રદુષણની વિગત	Sampling Instrument used કયા સાધનથી	Airborne Contamination		
				Number of Samples નમુનાની નંબર	Range રેન્જ	Average ઐક્ષર
1	2	3	4	5	6	7
	<u>QC LAB</u>					
1	EC ROOM	ISOBUT -	VOC	01	0.0	
	WET LAB	LIN	"	01	0.0	0.0 PPM
	HPL ROOM		"	01	0.0	
2	QC LAB					
	GC ROOM	METHANOL	VOC	01	0.0	
	WET LAB		"	01	0.0	0.0 PPM
	HPL ROOM		"	01	0.0	
3	PESD	METHANOL	VOC	01	0.0	
	TANK		"	01	0.0	0.0 PPM
			"	01	0.0	
4	TANK	ISO -	VOC	01	0.5	
	FARM	BUTELIN	"	01	0.5	0.5 PPM
	01		"	01	0.5	
5	TANK	AMONIA	VOC	01	0.1	
	FARM		"	01	0.1	0.1 PPM
	01		"	01	0.1	
6	MAIN	ISO	VOC	01	0.1	
	PLANT	BUTELIN	"	01	0.1	0.1 PPM
	G/F		"	01	0.1	
7	MAIN	ISO	VOC	01	0.0	
	PLANT	BUTELIN	VOC	01	0.0	0.0 PPM
	F/F		"	01	0.0	

ફોર્મ નંબર. ૩૭
રૂલ ૧૨-બી મુજબ

પ્રદુષણ નીવારણ અંગેનું રજીસ્ટર

DATE- 27-9-2024

TWA concentrations (As given in Second Schedule)	Reference method રેફરન્સ	Number of workers exposed at the location being monitored કામગીરની સંખ્યા	Remarks વિશેષ નોંધ	Signature person taking sample નમુના લેઈ જાતર વ્યક્તિની સહી	Name (In Block Letters) નામ
8	9	10	11	12	13
	DIGITAL				
50 PPM	PID	03	WITHIN RANGE	<i>[Signature]</i>	HARSH
	SENSOR				
200 PPM	"	03	"	<i>[Signature]</i>	HARSH
200 PPM	"	01	"	<i>[Signature]</i>	HARSH
50 PPM	"	02	"	<i>[Signature]</i>	HARSH
25 PPM	"	02	"	<i>[Signature]</i>	HARSH
50 PPM	"	03	"	<i>[Signature]</i>	HARSH
5 PPM	"	02	"	<i>[Signature]</i>	HARSH



भारत सरकार
Government of India
वाणिज्य और उद्योग मंत्रालय
Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो)
Petroleum & Explosives Safety Organisation (PESO)
आठवीं मंजिल, यश कमल बिल्डिंग, सयाजी गंज
वडोदरा- 390020
8th Floor, Yash Kamal Building, Sayajigunj,
Vadodara - 390020

E-mail : dyccebaroda@explosives.gov.in
Phone/Fax No : 0265 - 2225159

संख्या /No. : P/WB/GJ/15/2862 (P526017)

सेवा में /To,

M/s. Aarti Industries Limited (Unit II),
PLOT NO.-756/2 A&B,756/3 A&B, 756/4 A&B, 756/5 A&B,
GIDC Jhagadia,
Jhagadia,
Taluka: Jhagadia,
District: BHARUCH,
State: Gujarat
PIN: 393110

दिनांक /Dated : 13/10/2022

विषय /Sub : Survey No, 122, Plot no 756/2 A&B,756/3 A&B, 56/4 A&B, 756/5 A&B, 756/6 A&B,756/7, 779 & Survey NO, 122,, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 में पेट्रोलियम वर्ग A का अधिष्ठापन-अनुज्ञाप्ति जारी करने के बारे में।
Petroleum Class A Installation at Survey No, 122, Plot no 756/2 A&B,756/3 A&B, 56/4 A&B, 756/5 A&B, 756/6 A&B,756/7, 779 & Survey NO, 122,, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 Grant of License regarding.

महोदय
/Sir(s),

कृपया आपके पत्र क्रमांक OIN1177864 दिनांक 08/10/2022 का अवलोकन करें।
Please refer to your letter No. OIN1177864 dated 08/10/2022

विषयान्तर्गत अधिष्ठापन में निम्नलिखित पेट्रोलियम पदार्थों के वर्ग तथा मात्रा के भंडारण के लिए पेट्रोलियम नियम, 2002 के अधीन प्ररूप - XV में स्वीकृत, दिनांक 31/12/2024 तक वैध अनुज्ञाप्ति संख्या P/WB/GJ/15/2862 (P526017) दिनांक 13/10/2022 भेजी जा रही है।

Licence No. P/WB/GJ/15/2862 (P526017) dated 13/10/2022 granted in Form XV under the Petroleum Rules, 2002 and valid till 31/12/2024 for the storage of the following kinds and quantities of Petroleum at the subject installation is forwarded herewith.

पेट्रोलियम का विवरण /Description of Petroleum	किलोलीटरों में अनुज्ञाप्त क्षमता /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	12.50 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	12.50 KL

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें और अनुज्ञाप्ति के नवीकरण हेतु समस्त दस्तावेजों को अनुज्ञाप्ति की वैधता समाप्ति की तारीख या उससे पूर्व इस 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 further renewal of the licence to this office, so as to reach on or before the date on which licence expires.

यह अनुमोदन/ अनुमति अन्य प्राधिकारियों से आवश्यक अनुमति/क्लीयरन्स प्राप्त करने से या यथा लागू अन्य विधियों से छूट नहीं देती है।

This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

भवदीय /Yours faithfully,

(गणेश आर.)
(GANESH R.)
उप विस्फोटक नियंत्रक
Dy. Controller of Explosives
कुवे संयुक्त मुख्या 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/7273/7613/8177/2022 Dated 03/09/2022

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>)
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 : jtcce.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 अनुज्ञप्ति 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 अनुज्ञप्ति 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 अनुज्ञप्ति 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 रूपए (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 हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to **M/s. 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 विशिष्टायां 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.

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अनुज्ञप्ति संख्या-(Licence No.) P/WC/GJ/15/2715 (P404037)

नवीनीकरण के पृष्ठांकन के लिए स्थान
SPACE FOR ENDORSEMENT OF RENEWALS

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

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/WB/GJ/15/2862(P526017)

फीस रूपए (Fee Rs.) 5000/- per year

M/s. Aarti Industries Limited (Unit II), PLOT NO.-756/2 A&B,756/3 A&B, 756/4 A&B, 756/5 A&B, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 12.50 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/WB/GJ/15/2862(P526017) तारीख 13/10/2022 जो कि इससे उपाबद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. Aarti Industries Limited (Unit II), PLOT NO.-756/2 A&B,756/3 A&B, 756/4 A&B, 756/5 A&B, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 valid only for the importation and storage of 12.50 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/WB/GJ/15/2862(P526017) dated 13/10/2022 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 2024 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 31st day of December 2024

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	12.50 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	12.50 KL

October 13, 2022

For Jt. Chief Controller of Explosives
WB, Vadodara

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 Survey No: 122, Plot no 756/2 A&B,756/3 A&B, 56/4 A&B, 756/5 A&B, 756/6 A&B,756/7, 779 & Survey NO. 122,, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 1 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: 122, Plot no 756/2 A&B,756/3 A&B, 56/4 A&B, 756/5 A&B, 756/6 A&B,756/7, 779 & Survey NO. 122,, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 and consists of 1 Under Ground tank(s) for CLASS A together with connected facilities.

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



Directorate Industrial Safety & Health

सत्यमेव जयते

Directorate Industrial Safety & Health

FORM NO. 4
(Prescribed under Rules 5)

FORM NO. 4
License to work a factory
(Prescribed under Rule 5)

Registration No. 1952/2417/2012
FIN. S06015402A

License No. 15402
D.A. 26-Oct-2012

License is hereby granted to

Mr. KIRITBHAI R. MEHTA

For the premises known as

AARTI INDUSTRIES LIMITED

situated at

PLOT NO. 756/2A&B 3A&B 4A&B 5A&B 6 7&779 JHAGADIA GIDC. DIST. BHARUCH

Ta.: Jhagadia Dist.: Bharuch

for use as a factory within the limits specified in the plan approved by the

Joint Director Industrial Safety and Health, Surat Region

vide No. 1206 Date 20-Oct-2011 subject to provisions of the

Factories Act, 1948 and the Rules made thereunder.

The license is issued for:

- Maximum Number of workers to be employed on any day during the Year : **5,000**
- Maximum installed power in B.H.P. on any day during the year : **Above 5000**

The license is valid up to 31st December 2025,

Fees paid Rs. 330,200.00

Fees due Rs. 330,050.00

Excess Rs. 150.00

Place : Bharuch

Date : 06-Feb-2021



Signature valid

Digitally signed by VAGHELA NAVIN
DHIRAJLAL
Date: 2021.02.06 10:34:32 +05:30
Reason: Approval
Location: Bharuch

Deputy Director
Industrial Safety and Health
Bharuch

Ref no. AIL/Lic. No.15402/2024-25/042

30.09.2024

To,
The Deputy Director.
Industrial safety & health,
2nd floor, Multi Storied Building,
Near new court,
Kanbi Vaga, Bharuch.

Sub: Submission of Mock Drill Report for the FY 2024-25 (Q2)
Ref : Factory License no. 15402

Respected Sir ,

Referring to the subject mentioned above, we had conducted a Mock drill on dated 28.08.2024 to check the preparedness and effectiveness of the employees as per our schedule. We are submitting the detailed report for your kind perusal.

Refer attached annexure of detailed mock drill report. In view of the above, We request to acknowledge the same and oblige.

Thanking You,
For, Aarti Industries Limited,



Mr. Dharmendra Kumar
(Factory Manager)

Plot No.756/2A&B, 756/3A&B, 756/4A&B, 756/5A&B, 756/6, 756/7, 756/8, 756/9,
778 & 779, At GIDC Jhagadia, Dist- Bharuch, Gujarat, 393110



31/09/2024
અધિકારી અને સહાયક
મુદ્રા

Enclosure:

Annexure 1: Mock drill report along with photographs

www.aarti-industries.com | CIN : L24110GJ1984PLC007301

Regd. Office : Plot No. 801, 801/23, IIIrd Phase, GIDC Vapi - 396 195, Dist. Valsad. INDIA. T : 0260-2400366.

Factory : Plot No. 756/2A & B, 756/3A & B, 756/4A & B, 756/5A & B, 756/6, 756/7, 779 + 778 + 756/8 & 9, Survey No. 122,
GIDC Estate, Jhagadia, Taluka. Jhagadia, Dist. Bharuch, Gujarat - 393110. INDIA.

Phone No. : 9537011611, 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-11

Fire Water Storage and pump Details

Fire Pump house near PDA plant

Sr. No	Description	Make	HP	RPM	Flow Rate	Head
1	Jockey Pump A	KSB	20 HP	2900	10 M3/HR	88 m
2	Jockey Pump B	KSB	20 HP	2900	10 M3/HR	88 m
3	Main Pump A	KSB	150 HP	2900	273 M3/HR	88 m
4	Main Pump B	KSB	150 HP	2900	273 M3/HR	88 m
5	Disel Pump	KSB	167 HP	1800	273 M3/HR	88 m
Fire Water Reservior Capacity :- 420 KL				Diesel tank capacity of DG Pump :- 200 Litres		

Fire Pump house near Hydrogen generation plant

Sr. No	Description	Make	HP	RPM	Flow Rate (m3/hr)	Head
1	Jockey Pump	WILO	7.5 HP	2900	10	70 m
2	Main Pump	KSB	100HP	2970	270	70 m
3	Diesel Pump	Greaves	130HP	1800	273	70 m
Fire Water Reservior Capacity :- 420 KL				Diesel tank capacity of DG Pump :- 200 Litres		

Fire Pump house near Gold Plant

Sr. No	Description	Make	HP	RPM	Flow Rate (m3/hr)	Head
1	Jockey Pump	WILO	7.37 HP	2900	10.8 m3	88 mmwc
2	Jockey Pump	WILO	7.37 HP	2900	10.8 m3	88 mmwc
3	Main Pump	WILO	215 HP	1488	410 m3	88 mmwc
4	Diesel Pump	WILO	254 HP	1800	410 m3	88 mmwc
Fire Water Reservior Capacity :- 1230 KL				Diesel tank capacity of DG Pump :- 500 liters		

Fire Pump house near 2,5 DCNB Plant

Sr. No	Description	Make	HP	RPM	Flow Rate (m3/hr)	Head
1	JOCKEY Pump 1	WILO	45	2965	50	105 mmwc
2	JOCKEY Pump 2	WILO	45	2965	50	105 mmwc
3	MAIN Pump 1	WILO	225	1490	410	105 mmwc
4	MAIN Pump 2	WILO	225	1490	410	105 mmwc
5	DIESEL Pump	WILO	260	2100	410	105 mmwc
FIRE WATER RESERVOIR CAPACITY : 4000KL				DIESEL TANK CAPACITY :- 500 LITERS		



VISION POWER FACTx

POWER QUALITY – ENERGY AUDITS – SAFETY AUDITS – POWER SYSTEM STUDIES

AREA CLSSIFICATION 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



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.

NOTIFIED AREA OFFICE

(GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION)

Plot no. 40, Road no. 08 Near PepsiCo.

GIDC Jhagadia – 393110

Phone – (02645) 226154

Email – chiefofficernajhg@gmail.com

GSTIN no. 24AAALN1956C1ZD

નિર્દિષ્ટ વિસ્તાર અધિકારીશ્રીની કચેરી

(ગુજરાત ઔદ્યોગિક વિકાસ નિગમ)

પ્લોટ નં. ૪૦, રોડ નં. ૦૮,

પેપ્સીકો કંપની પાસે

જીઆઈડીસી ઝગડિયા - ૩૯૩૧૧૦

OW No. NAA/ CO/ JHG/ 163

Date – 28/5/2020

To Whom So Ever It May be Concern

This is to certify that, GIDC is able to supply 5600.0 KL/Day quantity of water to M/s Aarti Industries, Plot No. 779 + 756/2A&B + 756/3A&B + 756/4A&B + 756/5 A&B + 756/6 + 756/7 and Others at GIDC Jhagadia Industrial Estate, as per GIDC water supply rules and regulations after getting approval from competent authority of GIDC.

Chief Officer (N.A.A.)
GIDC Jhagadia

To,
M/s Aarti Industries,
Plot No. 779 + 756/2A&B + 756/3A&B + 756/4A&B + 756/5 A&B + 756/6 + 756/7
G.I.D.C, Jhagadia

No: GIDC/DEE/JHG/ 5H

DATE : 14.11.2017

To Whom So Ever It May Be Concern

This is to certify that GIDC is able to supply 855.0 KL/day quantity of water to M/s Aarti Industries Limited , Plot No. 778 at GIDC Jhagadia Industrial Estate . as per GIDC water supply rules and regulations .



Dy Executive Engineer

GIDC Jhagadia



To,

M/s Aarti Industries Limited

Plot No. 778

GIDC , Jhagadia



Annexure-14

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: AWH - 126636

NO: GPCB/ANK/CCA-1381(7)/ID-35534/

DT: ___/06/2023

To,

M/s. AARTI INDUSTRIES LTD.

PLOT NO: 756/2A&2B, 756/3A&3B, 756/4A&4B, 756/5A&5B, 756/6, 756/7, 756/8+9, 779,
GIDC ESTATE JHAGADIA,
DIST-BHARUCH.

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

REF: (1) Your application No. 270448 dated 17/01/2023.
(2) CCA No. AWH - 119949 dated: 05/08/2022. (CCA Renewal)
(3) CCA Amendment No. H - 119950 dated: 05/08/2022.
(4) CTE Amendment No. CTE - 121129 dated: 30/12/2022.

Sir,

This has reference to the CCA order No: **AWH-119949**, issued vide letter no. GPCB/ANK/CCA-1381(6)/ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022 under the provisions of the various Environmental Act/ Rules, which stands amended as under.

The Validity of this order will be up to 30/04/2029.

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

Sr. No.	Name of Products	Existing (MT/Year)	Proposed (MT/Year)	Total Quantity (MT/Year)
1	Hydrogen Gas	3000 Nm3/Hr.	0	3000 Nm3/Hr.
2	Purification of O/P/M Phenylene Di Amine	18000	0	18000
3	Calcium Chloride (Solid)	72000	0	72000
I. A Group IA - Chlorination Products and its Derivatives				
1	Mono-Chloro Benzene (MCB) Either/OR	72000	0	72000
2	Ortho Dichloro Benzene (ODCB) /Para Dichloro Benzene (PDCB) / Meta Dichloro Benzene (MDCB) Either/OR			

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3	1,2,3/1,2,4 Tri Chloro Benzene (TCB) Either/OR			
4	Ortho Chloro Toluene (OCT) / Para Chloro Toluene (PCT) Either/OR			
5	2-Chloro 4-Nitro Toluene Either/OR			
6	6-Chloro 2-Nitro Toluene/ 4-Chloro 2-Nitrotoluene Either/OR			
7	Crude of All Above Group I. A (Sr. No. 1-6 Chlorination Products)			
I. B	Group I B - Chlorination Products and its Derivatives			
1	2,4,6 Tri Chloro Aniline (TCAN) Either/OR			7200 (TCAN- Removed from IA Group and added in this Group-IB as per EC No. SEIAA/GUJ/EC/ 5(f)/1470/2022 dated 30/05/2022)
2	Crude of All Above Group I. B (Sr. No. 1 Chlorination Products)	0	7200	
II. A	Group IIA - Hydrogenated Products and its Derivatives			
1	Ortho Toluidine/ Para Toluidine/ Meta Toluidine Either/OR			36000
2	Meta Chloro Aniline/ Ortho Chloro Aniline/ Para Chloro Aniline Either/OR	36000	0	(Added Sr. No. 16 as per EC No. SEIAA/GUJ/EC/ 5(f)/1470 /2022 dated 30/05/2022)
3	3,4 DiChloro Aniline/ 2,3 DiChloro Aniline/ 2,5 DiChloro Aniline Either/OR			



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

4	2,4 Dichloro Aniline/ 2,6 DiChloro Aniline/ 3,5 DiChloro Aniline Either/OR			
5	3,4 Diamino Diphenyl Ether / 4,4 Diamino Diphenyl Ether Either/OR			
6	Ortho Anisidine/ Para Anisidine/ Meta Anisidine Either/OR			
7	Chloro Fluoro Aniline Either/OR			
8	Ortho Cumidine/ Para Cumidine/ Meta Cumidine Either/OR			
9	Toluidines Either/OR			
10	Aniline Either/OR			
11	Para Fluoro Aniline/ Meta Fluoro Aniline/ Ortho Fluoro Aniline Either/OR			
12	1, 3 Di Fluoro Aniline/ 2, 4 Di Fluoro Aniline Either/OR			
13	1, 3 Di Fluoro Benzene Either/OR			
14	4- Fluoro-N-Isopropyl Aniline Either/OR			
15	4-Chloro-N-Isopropyl Aniline Either/OR			
16	Crude of all above Group II. A (Sr. No. 1-15 Hydrogenation product)			
II. B	Group IIB - Hydrogenated Products and its Derivatives			
1	2,4,5 Trichloroaniline Either/OR	36000	0	36000

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2	Meta Phenylene Di Amine/ Ortho Phenylene Di Amine/ Para Phenylene Di Amine Either/OR			(splitting existing Hydrogenated Product group as per EC No. SEIAA/GUJ/EC/ 5(f)/1470/202 2 dated 30/05/2022
3	Para Amino Phenol/ Meta Amino Phenol Either/OR			
4	Crude of all above Group II. B (Sr. No. 1-3 Hydrogenation product)	0		
III (as per EC- Gro up VI)	DAPBI (2 (4 amino phenyl - 1(H) - benzo(d) imidazol - 5 -amine))	0	420	420
By Product				
1	Steam	136.56 MT/Day	0	136.56 MT/Day

2. **Specific conditions:**

- Unit shall dispose their primary treated effluent to CMEE-BEIL & M/s. Detox India up to 31/03/2024 and in this time unit shall complete installation of secondary advanced treatment system, biological treatment system, MEE, ATFD & RO and submit report on monthly basis to Board without fail.
- Unit shall comply all the conditions stipulated by SEIAA in the order of Environmental Clearance issued vide letter No. SEIAA/GUJ/EC/5(f)/1161/2021, dated: 02/07/2021 and further amended letter No. SEIAA/GUJ/EC/5(f)/1470/2022, dated: 30/05/2022.
- Unit shall receive Steam from M/s. Aarti Industries Limited (Unit-I) and M/s. DCM Ltd.
- 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 Solid Fuel guideline framed by Board and shall install APCM as per guideline.



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

- i) Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.
- j) Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.

3. CONDITION UNDER THE WATER ACT:

- 3.1 The condition No. 3.3 for Water Consumption under Water Act of the CCA order No: AWH-119949, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022 is amended and shall now be read as under.

Water (Qty: KL/day)	Water consumption		
	Existing	Proposed	Total
Domestic	65	60	125
Industrial	1250.28	3203	4453.28
Gardening	22	278	300
Total	1337.28	3541	4878.28 (Fresh)

- 3.2 The condition No. 3.1 & 3.2 for Wastewater Generation under Water Act of the CCA order No: AWH-119949, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022 is amended and shall now be read as under.

Water (Qty: KL/day)	Wastewater Generation		
	Existing	Proposed	Total
Domestic	38	82	120
Industrial	177.84	378	555.84
Total	215.84	460	675.84

- 3.3 Mode of disposal of wastewater:

- a) Total 555.84 KLD industrial effluent, 347 KLD treated effluent sent to NCT-JPP pipeline.
- b) And 189.84 KLD sent to CMEE of M/s. Detox and M/s. BEIL. And remaining 19 MT/Day sludge shall be disposed of to common TSDF.
- c) 120 KLD domestic sewage shall be treated in STP for gardening/plantation purpose.

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

- 3.4 The quality of industrial effluent shall conform to the following standards (as per GPCB norms, whichever is applicable) (For discharge into JPP pipeline) (For organic chemical)

Parameters	Max. permissible values (in milligram/liter except for pH and Temperature) for discharge of treated effluent into JPP
pH	6.5-8.5

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Biological Oxygen Demand, BOD ₃ , 27° C	100
Chemical Oxygen Demand (COD)	250
Total Suspended Solids (TSS)	100
Temperature, ° C	Shall not exceed more than 5° C above ambient water temperature
Oil & Grease	10
Ammonical -Nitrogen	50
Total Kjeldahl Nitrogen (TKN)	50
Nitrate- Nitrogen	10
Flouride (F)	15
Sulphides, as S	2
Phenolic compounds (as C ₆ H ₅ OH)	5
Total Residual Chlorine	1
Zinc (Zn)	5
Iron (Fe)	3
Copper (Cu)	2
Trivalent Chromium	2
Manganese (Mn)	2
Nickel (Ni)	2
Arsenic (As)	0.2
Cyanide (CN)	0.2
Vanadium	0.2
Lead (Pb)	0.1
Hexavalent Chromium (Cr ⁺⁶)	0.1
Selenium (Se)	0.05
Cadmium (Cd)	0.05
Mercury (Hg)	0.01
Total chromium (as Cr)	1
Bio-assay test	90 % Survival of fish after 96 hours in 100 % effluent.
Colour & Odor	All efforts shall be made to remove Colour & unpleasant odour as far as possible

Note: Though norms for COD are not mentioned here but, COD shall be monitored. If the COD in treated effluent exceeds 250 mg/l, the concerned industrial units discharging such effluent shall be required to identify chemicals responsible for high COD in effluent. In case, these are found to be toxic as defined under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989, the concerned industry shall install tertiary treatment system.

- 3.5 The effluent conforming to the above standards shall be discharged into onshore effluent conveying pipeline upto the Kantiyajal booster (Jhagadiya-to- Kantiyajal) Pumping Station, Village: Kantiyajal, Dist: Bharuch for ultimate disposal into deep Sea .



GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

- 3.6 Unit shall be required to make storage facilities to store the effluent for at least 72 hours by providing acid proof brick lined impervious tanks/HDPE tanks.
- 3.7 Unit shall implement & follow communication plan so that respected work can be done in minimum response time in case of emergencies.
- 3.8 Hydraulic Load given to member unit of NCT Jhagadia Pipeline Project is non-transferable i.e. member unit can not sell or buy hydraulic load to/from any other units. No addition / alteration of the booked volume shall be done without permission of the board.
- 3.9 Hydraulic load of unit shall be as per hydraulic load freezed as on 16/07/2021.
- 3.10 Unit shall provide online monitoring system for pH, TOC and TKN with recorder & magnetic flow meters for flow measurement of treated waste water.
- 3.11 Unit shall have only one authorized outlet over the ground with full access from outside the premises, as per design approved by NCT Jhagadia Pipeline Project authority.
- 3.12 In case of shut-down of plant for more than three (3) days for any reason, the NCT Jhagadia Pipeline Project member shall intimate to NCT Jhagadia Pipeline Project authority & GPCB well in advance for the better operation & management of pipeline.
- 3.13 Unit shall make fixed arrangement for discharge of the effluent from their Final collection tanks to the drainage network of NCT Jhagadia Pipeline. Unit shall not keep any by-pass line or system or loose or flexible pipe line for discharge of the effluent into drainage network of NCT Jhagadia Pipeline.
- 3.14 Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks/ETP to measure the quantity of effluent discharged into the drainage network of NCT Jhagadia Pipeline.
- 3.15 Unit shall affix of water meters 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.
- 3.16 Unit shall provide adequate / safe effluent sampling facility for the effluent being stored in final collection / discharge tank of ETP or being discharged into NCT Jhagadia Pipeline.
- 3.17 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process, the name of proprietor/partners /directors of the unit, NCT Jhagadia Pipeline Project membership number & date of joining of NCT Jhagadia Pipeline Project, the electricity consumer number as on the record of DGVCL.
- 3.18 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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- 3.19 Unit shall either stop or curtail its production activities if the effluent is not conforming to the standards of NCT Jhagadia Pipeline specified by GPCB.
- 3.20 The authorized representative of NCT Jhagadia Pipeline Project shall have right of entry at any time for the purpose of inspection and monitoring the effluent collection facilities/ETP (if required) of Unit.
- 3.21 Unit shall have to keep accurate records of quality & quantity of effluent discharged to NCT Jhagadia Pipeline on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as & when asked.
- 3.22 Unit shall keep accurate records of quantity of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on day to day basis and required to submit the complied record of each month to GPCB on or before fifth day of the succeeding month.
- 3.23 In case of incinerators or MEE, the flow measuring devices for mother liquor/ toxic effluent/ Non-biodegradable effluent, light diesel oil 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.
- 3.24 Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.
- 3.25 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 and final treated effluent shall be discharged to the NCT Jhagadia Pipeline.
- 3.26 If the NCT Jhagadia Pipeline Project authority terminates the membership of Pipeline Project, the NCT Jhagadia Pipeline Project member unit shall have to close down the manufacturing activities/industrial operation of the process plant immediately until the NCT Jhagadia Pipeline Project membership is resumed.
- 3.27 The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environment safeguards and other conditions stipulated by statutory 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.
- 3.28 The Environmental audit shall be carryout yearly, if applicable. The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30th June every year.



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- 3.29 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.
- 3.30 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.
- 3.31 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 condition No. 4.1 for Fuel Consumption under Air Act of the CCA order No: **AWH-119949**, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022 is amended and shall now be read as under.

Sr. No.	Name of fuel	Quantity		
		Existing	Proposed	Total
1	HSD	1850 lit/hr.	2199 lit/hr.	4049 lit/hr.
2	Coal/ Coal+ Briquettes	4.1 MT/hr.	--	4.1 MT/hr.
3	Steam from Aarti Ind. Ltd. (U-1)	15 TPH	75 TPH	90 TPH
4	Steam from DCM Shriram Ltd.	--		
5	Natural Gas	--	60 SM3/hr.	60 SM3/hr.

* Unit shall receive steam from M/s. Aarti Ind. Ltd. (U-1) and M/s. DCM Ltd. and Water shall be supplied accordingly.

- 4.2 The condition No. 4.2 for Flue gas stacks under Air Act of the CCA order No: **AWH-119949**, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022 is amended and shall now be read as under.

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
Total after expansion					
1	D G Set (650 KVA-2 Nos)	11 (each)	--	PM SO2 NOx	150 mg/NM ³ 100 ppm 50 ppm
2	D G Set (320 KVA)	11			
3	D G Set (1010 KVA-6 Nos)	11 (each)			

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4	DG Set (1250 KVA)	11			
5	D G Set (1500 KVA-3 Nos)	11 (each)			
6	Hot Air generator	33	Cyclone Separator, Bag Filter & Water/dry Scrubber		
7	TFH (40 Lacs K.cal/Hr)	30	Bag Filter		
8	TFH (4 Lacs K.cal/Hr)	15	--		

- 4.3 The condition No. 4.3 for Process gas stacks under Air Act of the CCA order No: **AWH-119949, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022** is amended and shall now be read as under.

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
	Existing				
1	Reformer (Hydrogen)	26	--	CO	150 mg/Nm3
2	CaCO3 Reactor (CaCl2 plant)	23	Alkali Scrubber	HCL	20 mg/Nm3
3	CaCl2 Dryer Vent (CaCl2 plant)	20	Wet Scrubber	PM	150 mg/Nm3
4	Chlorinator Reactor vent	30	Falling Film absorber (Water) followed by Alkali Scrubber	HCl Chlorine	20 mg/Nm3 9 mg/Nm3
	Proposed				
1	CLB-Cl2 Scrubber (Storage/Pipeline)	15	Caustic Scrubber	Cl2	9 mg/Nm3
2	CLB - PDCB Scrubber (Storage)	15	Single Stage, ODCB	VOC	--
3	CLB - HCl Scrubber (Storage)	15	HCl absorber followed by	HCl	20 mg/Nm3



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			Caustic scrubber		
4	HCl Scrubber (Storage)	15	Caustic scrubber	HCL	20 mg/Nm3
5	TCB Scrubber	15	HCl absorber followed by caustic scrubber	HCl Cl2	20 mg/Nm3 9 mg/Nm3
6	TCB-ODCB Scrubber (Storage)	15	Single Stage, ODCB	VOC	--
7	Group IB: Chlorination Products and its Derivatives	15	HCl absorber followed by caustic scrubber	HCl Cl2	20 mg/Nm3 9 mg/Nm3
8	DAPBI Process	15	Water Scrubber followed by Alkali Scrubber	HCl	20 mg/Nm3
9	DAPBI Process	15	Acidic Scrubber	NH3	175 mg/Nm3
10	ETP Scrubber	15	Acidic Scrubber	NH3	175 mg/Nm3

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

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

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

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

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

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

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- 5.2 The condition No. 6.2 under authorization for Hazardous & other wastes of the CCA order No: **AWH-119949**, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022 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	ETP waste	35.3	--	6935	6935	Generation, Collection, Storage, Transportation, & disposal to TSDF site OR Co-Processing at cement industry.
2	Silica Sludge	35.3	8640	3067	11707	Generation, Collection, Storage, Transportation, disposal to common TSDF, OR Pre-Processing OR Co-Processing at cement industry
3	Used Oil / Waste Oil	5.1	25	15	40	Generation, Collection, Storage, Transportation and Disposal by Reuse in plant & machinery as lubricant or sell it to authorized re-refiners / recycler.
4	Empty barrels/ containers/ liners contaminate d with hazardous chemicals /wastes	33.1	50	250	300	Generation, Collection, Storage, Transportation, decontamination, disposal by sending back to raw material supplier OR sale to registered recyclers/reuse back OR disposal at TSDF OR Pre-Processing OR Co-Processing at cement industry
5	Distillation residue waste Process residue	36.1/ 26.1	1404	7094	9615	Generation, Collection, Storage, Transportation, disposal by CHWIF, OR Pre-Processing OR Co-Processing
			1117			
6	Spent Catalyst	26.5	235	65	300	Generation, Collection, storage, transportation & disposal by sale to registered regenerators/ TSDF Site.
7	Hydrochloric Acid (HCl)	B15	145272	14477	159749	Generation, Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9



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						permission to receive this waste after making MoU. OR Collection, Storage, transportation & reused in manufacturing of CaCl ₂ .
8	Sodium Hypochlorite (NaOCl)	B7	2148	--	2148	Generation, Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
9	Sodium Chloride (NaCl)	B36	--	38646	38646	Generation, Collection, storage, transportation & send to TSDF site for landfill.
10	Calcium Chloride solution	C2	--	58000	58000	Generation, Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
11	Spent Carbon	36.2	--	400	400	Generation, Collection, Storage, transportation, sent for co-processing/ incineration.
12	Off specification Product	26.1	24	121	145	Generation, Collection, Storage, Transportation, disposal by CHWIF OR Pre-Processing OR Co-Processing at cement industry.
13	PPE's Waste, Non Recyclable plastic waste	33.2	25	175	200	Generation, Collection, Storage, Transportation, disposal to Land filling OR Co-Processing at cement industry.
14	Mix Solid waste (Contaminated Cotton Waste, Paper Waste, Woods waste, Non Recyclable plastics/ PPE's etc.)	--	--	150	150	Generation, Collection, Storage, Transportation disposal to incineration OR Co-Processing at cement industry.

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15	Stripper TOP Containing Organic Content	26.1	--	1095	1095	Generation, Collection, Storage, Transportation disposal to incineration/ Co-Processing.
16	Spent Solvent	26.4	--	35	35	Generation, Collection, Storage, Transportation disposal to incineration/Co- Processing OR Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission.
17	Asbestos waste	15.2	80	--	80	Generation, Collection, Storage, Transportation disposal by at TSDF Site.
18	Ammonia Solution	--	--	480	480	Collection, Storage and reuse in the same process OR Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
19	Waste or residue containing Oil	5.2	10	--	10	Generation, Collection, Storage, Transportation, disposal by CHWIF OR Pre-Processing OR Co- Processing at cement industry
Non-Hazardous Waste:						
1	Fly Ash	-	2000	1000	3000	Generation, Collection, Storage, Transportation, Sold to Brick Manufacturer OR other use i.e road construction OR Co-Processing at cement industry
2	Mixed Waste (Office Paper, paperboard and paper product wastes, plastic waste etc.)	-	15	135	150	Generation, Collection, Storage, Transportation & disposal at TSDF Site/ Incineration/OR Co- Processing at cement industry.
3	Insulation waste/ Thermocol	S1/ S3	44	106	150	Generation, Collection, Storage, Transportation, disposal to common TSDF



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4	E-Waste/ Electrical Waste	--	15	10	25	Generation, Collection, Storage, Transportation and disposal to registered recyclers
5	Battery waste	--	20 Nos	1500 Nos.	1520 Nos	Generation, Collection, Storage, Transportation, Disposal by selling to authorized recyclers
6	Bio-medical waste	--	--	1	1	Generation, Collection, Storage, Transportation, Disposal to CBWTF- Incineration
7	Glass	S7	10	2	12	Collection, Storage, Transportation, disposal /sold to scrap processors
8	STP Waste (Sludge)	--	--	120	120	Collection, Storage, Transportation disposal as manure.

- 6 All other conditions of the CCA order No: **AWH-119949**, issued vide letter no. **GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090**, dated **05/08/2022** and further amended dated **05/08/2022** will remain same.

For and on behalf of
GUJARAT POLLUTION CONTROL BOARD

(Signature)
28/06/2023
(Arun G. Patel)
ENVIRONMENT ENGINEER

Outward No: 746053, 28/06/2023

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Annexure-15

Photographs of Flow Meter



Inlet of ETP



Outlet of ETP



Inlet of MEE



Flowmeter at NCT Discharge Point

Annexure-16

Photographs of Logbook

AARTI INDUSTRIES LIMITED

Plot No. Plot No: 756/2A&B, 756/3A&B, 756/4A&B, 756/5A&B, 756/6, 756/7, 756/8+9 & 779, GIDC Estate Jhagadia, Dist.-Bharuch.

LOGSHEET : INDUSTRIAL EFFLUENT GENERATION & ENERGY READING

Date :- 19/09/2024

Plant / Section	Process Effluent Reading		
	Initial Reading	Final Reading	Diff (KL)
Buss-IV	184137	188357	24.22
CLB	0	0	0
TCAN	0	20000	20
TCB	2749651	2749651	0
DCPNA			
2.5 DCNB	1750640	1777730	27.09
Gold		off pump	12.8
Total (KL)			84.11

Plant / Section	Utility Effluent Reading		
	Initial Reading	Final Reading	Diff (KL)
Unit-2 Common CTBD	6506050	6550040	43.99
Gold CTBD	1506180	1506160	0
DM Plant	16786200	16863900	77.7
Gold ETP CTBD			
2.5 DCNB CTBD		off pump	24
Total (KL)			145.69

Electrical Consumption In ETP (MCC Panel)			
Panel No	Initial Reading	Final Reading	Diff (Kwh)
MCC 2A	505547.547	506722.180	1178.633
MCC 2B	571767.098	575510.276	3743.178
MCC 2C	33166.172	33292.554	126.382
MCC 2D	316793.096	318677.866	2284.77
MCC 2J	72907.029	73053.146	146.122
Total (Kwh)			7455.785

Plant Operation Discription			
Section	Initial Reading	Final Reading	Diff (KL)
NCTL	92787.28	92709.34	322.06
Process MEE Feed	5184890	5227820	42.93
Process MEE Cond.	4800170	4837650	37.48
Process ATFD Feed	4195300	4358700	16.36
Process RO Feed			
Process RO Permeat			
Stripper Feed	777806	777806	0
Total (KL)			418.83

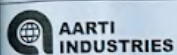
Steam Consumption in ETP			
Section	Initial Reading	Final Reading	Diff (MT)
Process MEE	1027790	1035960	8.17
Process ATFD	370108	381950	11.84
Stripper	263540	263540	0
Total (MT)			20.01

Sr. No.	Role	Name	Signature	Remarks
1	Shift Incharge	Vivek Shrivastava	[Signature]	
2	Section Incharge	Pratibha	[Signature]	
		Mr. Gaur	[Signature]	

PPO F21P105G

32410141520

ETP Logbook



AARTI INDUSTRIES LIMITED, JHAGADIA

S.T.P. 2 SAMPLE ANALYSIS

RAW WATER ANALYSIS								TREATED WATER ANALYSIS							REMARKS
DATE	COD	TDS	PH	COND	TSS	MLSS	MLVSS	COD	TDS	PH	COND	TSS	MLSS	MLVSS	
10/08/24	24	862	7.42	-	54	3618	3256	22	600	8.33	-	<10	-	-	
11/08/24	30	786	7.48	-	35	3480	3170	26	696	8.22	-	<10	-	-	
12/08/24	56	512	7.21	-	45	3590	3140	25	504	8.77	-	<10	-	-	
13/08/24	275	488	7.24	-	64	3624	3271	27	276	7.19	-	<10	-	-	
14/08/24	12	580	7.12	-	42	3436	3162	19	477	8.18	-	<10	-	-	
15/08/24	14	655	7.22	-	48	3748	3089	16	516	7.38	-	<10	-	-	
16/08/24	101	667	7.13	-	44	3436	3124	14	470	6.99	-	<10	-	-	
17/08/24	95	588	7.18	-	40	3170	2821	19	468	7.03	-	<10	-	-	
18/08/24	110	580	7.28	-	65	3090	2750	22	511	7.10	-	<10	-	-	
19/08/24	98	715	7.09	-	52	3210	2935	19	601	7.54	-	<10	-	-	
20/08/24	104	737	7.26	-	45	3196	2989	21	287	7.97	-	<10	-	-	
21/08/24	96	688	7.15	-	39	3210	2935	21	242	7.04	-	<10	-	-	
22/08/24	98	692	7.12	-	41	3105	2985	28	163	7.91	-	<10	-	-	
23/08/24	86	521	7.38	-	32	3218	2862	15	224	8.01	-	<10	-	-	
24/08/24	101	546	7.83	-	35	3140	2830	18	524	8.10	-	<10	-	-	
25/08/24	91	562	7.26	-	37	3082	2746	13	514	8.41	-	<10	-	-	
26/08/24	112	642	7.48	-	31	3452	3237	21	501	8.12	-	<10	-	-	
27/08/24	122	554	7.38	-	54	3842	3652	27	608	8.02	-	<10	-	-	
28/08/24	106	472	7.15	-	29	4020	3519	31	508	7.58	-	<10	-	-	
29/08/24	112	498	7.07	-	28	3760	3021	25	187	8.12	-	<10	-	-	
30/08/24	108	507	7.20	-	24	3863	3621	19	164	8.18	-	<10	-	-	
31/08/24	116	540	7.24	-	28	4380	3018	22	268	7.44	-	<10	-	-	
01/09/24	128	622	7.58	-	31	4555	4388	26	398	7.77	-	14	-	-	
02/09/24	118	580	7.42	-	21	4420	4280	20	246	7.89	-	12	-	-	
03/09/24	113	622	7.52	-	27	2022	1834	24	392	8.02	-	12	-	-	
04/09/24	116	592	7.28	-	25	1949	1734	21	538	7.45	-	11	-	-	
05/09/24	117	563	7.42	-	22	2241	2038	21	157	7.56	-	12	-	-	
06/09/24	127	136	8.04	-	19	2420	2190	22	220	7.76	-	13	-	-	

STP Logbook

Annexure-17

Flue Gas Stack Emission Monitoring Results

Sr No	Location*	Parameter	Apr'24	May'24	Jun'24	Jul'24	Aug'24	Sep'24
1	DG Set 1 - 1010 KVA	PM	84.2	72.9	81.3	76.2	82.6	68.4
		SOX	5.8	6.8	5.4	6.2	5.8	6.6
		NOX	40.2	38.9	36.2	38.4	35.2	39.4
2	DG Set 2 - 1010 KVA	PM	71.6	83.1	68.2	71.8	68.4	76.6
		SOX	6.6	7.3	6.2	7.8	6.3	5.2
		NOX	44.1	43.1	40.1	34.2	31.4	36.4
3	DG Set 3- 650 KVA	PM	84.1	77.2	71.4	82.8	76.6	82.1
		SOX	7.4	6.3	5.8	6	5.2	6.6
		NOX	40.8	37.2	35.8	31.6	38.2	31.8
4	DG Set 4- 650 KVA	PM	82.6	69.4	70.5	77.6	81.4	72.6
		SOX	8.2	6	6.4	5.4	8.1	7.2
		NOX	39.6	40.1	35.9	33.2	35.6	31.8
5	DG Set 5- 1250 KVA	PM	74.1	82.6	65.9	67.4	79.2	84.1
		SOX	6.6	6.8	5.2	8.2	6.6	6.6
		NOX	41.6	33.9	40.6	40.1	34.7	36.6
6	DG Set 6 - 1010 KVA	PM	66.9	76.4	83.4	75.1	84.6	72.2
		SOX	7.1	7.9	5.8	6.6	5.4	5.6
		NOX	39.2	40.6	38.4	35.6	39.2	35.2
7	DG Set 7 - 1010 KVA	PM	81.8	70.9	78.4	84.2	73.8	70.5
		SOX	6.2	5.8	7.2	5.6	6.1	6.2
		NOX	41.6	38.1	40.2	37.4	40.1	37.4
8	DG Set 8 - 1010 KVA	PM	34.2	31.6	34.9	29.6	33.6	30.4
		SOX	5.8	7.3	5.4	6.6	7.1	5.8
		NOX	36.1	40.2	38.9	37.1	32.8	30.9
9	DG Set 9 - 1010 KVA	PM	80.1	81.6	76.2	84.2	80.7	78.6
		SOX	6.6	6.3	8.2	7.2	6.6	6.2
		NOX	39.8	33.8	37.6	39.6	34.4	36.6
10	DG Set 10 - 320 KVA	PM	77.6	72.5	68.8	81.6	78.2	72.2
		SOX	5.4	7.3	6.6	5.4	6.4	6
		NOX	40.1	39.1	40.2	35.8	30.6	34.2
11	DG Set 11 - 1500 KVA	PM	82.6	70.4	76.6	72.5	83.3	80.4
		SOX	6.1	6.7	5.4	6	5.8	7.2
		NOX	42.6	37.2	38.6	35.4	33.9	36.6
12	DG Set 12 - 1500 KVA	PM	71.8	82.6	79.6	71.6	65.2	73.1
		SOX	5.2	7.3	5.8	5.5	6.4	5.8
		NOX	41.8	38.8	39.1	32.8	38.1	35.2
14	Thermic Fluid Heater (40 Lac KCal/Hr)	PM	83.8	96.1	74.2	84.1	72.6	79.4
		SOX	74.1	72.1	86.2	62.2	58.6	26.2
		NOX	42.6	39.8	38.4	38.2	32.9	32.8

15	Thermic Fluid Heater (4 Lac KCal/Hr)	PM	BDL	BDL	BDL	BDL	BDL	BDL
		SOX	BDL	BDL	BDL	BDL	BDL	BDL
		NOX	31.2	28.1	33.9	36.8	32.1	28.6
16	Hot Air Generator	PM	30.6	26.6	28.8	20.6	26.6	20.6
		SOX	16.2	21.8	15.6	12.2	16.1	12.8
		NOX	39.4	37.2	35.2	36.1	38.1	36.1
17	DG Set 14 - 1500 KVA	PM	77.2	81.8	72.7	68.2	76.6	82.4
		SOX	5.6	6.2	5.8	5.1	6.6	5.8
		NOX	38.4	40.4	35.2	36.6	37.1	40.1
18	DG Set 15 - 1500 KVA	PM	80.4	71.8	78.4	70.5	82.1	76.6
		SOX	6.1	6.8	6.1	5.8	5.7	6.6
		NOX	42.6	39.1	40.4	36.1	32.4	36.2
19	CaCl ₂ Dryer vent (CaCl ₂ plant)	PM	138.2	119.6	96.4	96.2	83.2	92.8

*The above mentioned data is for existing facilities only. For remaining facilities, the unit shall comply with the condition after installation and obtaining CC&A amendment.



**TEST REPORT
(STACK MONITORING)**

ULR - TC77532400008853F			
Test Report No.	URA/24/08/AIL-J/S-021	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/021	Service Request Date.:	07/08/2024
Sample ID No.	URA/ID/S-24/08/021	Field Data Sheet No.:	URA/FDS/S-24/08/021
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	07/08/2024	Date of Testing	08/08/2024
Stack Sampling Attached to	Thermic Fluid Heater (40 Lac Kcal/Hr)		
Air Pollution Control Device	Bag Filter		
Fuel Used	Coal		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	1350
3.	Stack Area	m ²	1.4320
4.	Ambient Temperature	°C	36
5.	Flue Gas Temperature	°C	141
6.	Exit Gas Velocity	m/s	8.6
7.	Exit Gas Flow	m ³ /h	44333.6

➤ **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	72.6	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	58.6	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	32.9	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

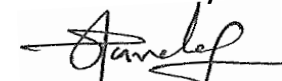
Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
(STACK MONITORING)

Test Report No.	URA/24/08/AIL-J/S-021	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/021	Service Request Date.:	07/08/2024
Sample ID No.	URA/ID/S-24/08/021	Field Data Sheet No.:	URA/FDS/S-24/08/021
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	07/08/2024	Date of Testing	08/08/2024
Stack Sampling Attached to	Thermic Fluid Heater (40 Lac Kcal/Hr)		
Air Pollution Control Device	Bag Filter		
Fuel Used	Coal		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	1350
3.	Stack Area	m ²	1.4320
4.	Ambient Temperature	°C	36
5.	Flue Gas Temperature	°C	141
6.	Exit Gas Velocity	m/s	8.6
7.	Exit Gas Flow	m ³ /h	44333.6

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	4.6	--	By TVOC Meter

Remarks:

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

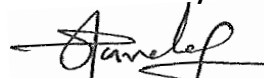
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



**TEST REPORT
(STACK MONITORING)**

ULR - TC775324000008842F			
Test Report No.	URA/24/08/AIL-J/S-010	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/010	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/010	Field Data Sheet No.:	URA/FDS/S-24/08/010
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	Thermic Fluid Heater (4 Lac Kcal/Hr)		
Air Pollution Control Device	--		
Fuel Used	Natural Gas		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UURL/AIR/SMK/01		
Inst. Name:	Stack Monitoring Kit, VSS1	Serial Number:	467 DTJ 15
Cali. Date:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	200
3.	Stack Area	m ²	0.0314
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	158
6.	Exit Gas Velocity	m/s	13.1
7.	Exit Gas Flow	m ³ /h	1482.2

➤ **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	BDL (MDL:2.0)	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	BDL (MDL:5.0)	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	32.1	50	IS 11255 (Part 7)

Remarks:

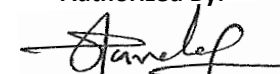
Opinion & Interpretation (if required): BDL: Below Detection Limit

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jaivik S. Tandel
(Manager - Operations)

**TEST REPORT
(STACK MONITORING)**

Test Report No.	URA/24/08/AIL-J/S-010	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/010	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/010	Field Data Sheet No.:	URA/FDS/S-24/08/010
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	Thermic Fluid Heater (4 Lac Kcal/Hr)		
Air Pollution Control Device	--		
Fuel Used	Natural Gas		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	200
3.	Stack Area	m ²	0.0314
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	158
6.	Exit Gas Velocity	m/s	13.1
7.	Exit Gas Flow	m ³ /h	1482.2

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	4.4	--	By TVOC Meter

Remarks:

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

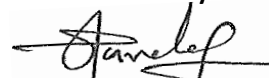
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



**TEST REPORT
(STACK MONITORING)**

ULR - TC775324000008843F			
Test Report No.	URA/24/08/AIL-J/S-011	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/011	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/011	Field Data Sheet No.:	URA/FDS/S-24/08/011
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	Hot Air Generator		
Air Pollution Control Device	Bag Filter + Wet Scrubber		
Fuel Used	Coal		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	33
2.	Stack Diameter	mm	1000
3.	Stack Area	m ²	0.7857
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	82
6.	Exit Gas Velocity	m/s	9.6
7.	Exit Gas Flow	m ³ /h	27154.3

➤ **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	26.6	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	16.1	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-119949


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)

Test Report No.	URA/24/08/AIL-J/S-011	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/011	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/011	Field Data Sheet No.:	URA/FDS/S-24/08/011
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	Hot Air Generator		
Air Pollution Control Device	Bag Filter + Wet Scrubber		
Fuel Used	Coal		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	33
2.	Stack Diameter	mm	1000
3.	Stack Area	m ²	0.7857
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	82
6.	Exit Gas Velocity	m/s	9.6
7.	Exit Gas Flow	m ³ /h	27154.3

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	4.4	--	By TVOC Meter

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 - TC77532400008836F			
Test Report No.	URA/24/08/AIL-J/S-004	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/004	Service Request Date.:	05/08/2024
Sample ID No.	URA/ID/S-24/08/004	Field Data Sheet No.:	URA/FDS/S-24/08/004
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	05/08/2024	Date of Testing	06/08/2024
Stack Sampling Attached to	HCl Scrubber (Storage)		
Air Pollution Control Device	Alkali Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	23
2.	Stack Diameter	mm	100
3.	Stack Area	m ²	0.0079
4.	Ambient Temperature	°C	31
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	4.1
7.	Exit Gas Flow	m ³ /h	116.0

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm ³	3.8	20	UERL/AIR/SOP/07

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949


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)**

Test Report No.	URA/24/08/AIL-J/S-004	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/004	Service Request Date.:	05/08/2024
Sample ID No.	URA/ID/S-24/08/004	Field Data Sheet No.:	URA/FDS/S-24/08/004
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	05/08/2024	Date of Testing	06/08/2024
Stack Sampling Attached to	HCl Scrubber (Storage)		
Air Pollution Control Device	Alkali Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	23
2.	Stack Diameter	mm	100
3.	Stack Area	m ²	0.0079
4.	Ambient Temperature	°C	31
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	4.1
7.	Exit Gas Flow	m ³ /h	116.0

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	By TVOC Meter

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 - TC77532400008837F			
Test Report No.	URA/24/08/AIL-J/S-005	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/005	Service Request Date.:	05/08/2024
Sample ID No.	URA/ID/S-24/08/005	Field Data Sheet No.:	URA/FDS/S-24/08/005
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	05/08/2024	Date of Testing	06/08/2024
Stack Sampling Attached to	CaCO₃ Reactor		
Air Pollution Control Device	Alkali Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	23
2.	Stack Diameter	mm	200
3.	Stack Area	m ²	0.0314
4.	Ambient Temperature	°C	31
5.	Flue Gas Temperature	°C	36
6.	Exit Gas Velocity	m/s	3.7
7.	Exit Gas Flow	m ³ /h	418.6

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm ³	3.7	09	UERL/AIR/SOP/07

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949


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)**

Test Report No.	URA/24/08/AIL-J/S-005	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/005	Service Request Date.:	05/08/2024
Sample ID No.	URA/ID/S-24/08/005	Field Data Sheet No.:	URA/FDS/S-24/08/005
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	05/08/2024	Date of Testing	06/08/2024
Stack Sampling Attached to	CaCO ₃ Reactor		
Air Pollution Control Device	Alkali Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	23
2.	Stack Diameter	mm	200
3.	Stack Area	m ²	0.0314
4.	Ambient Temperature	°C	31
5.	Flue Gas Temperature	°C	36
6.	Exit Gas Velocity	m/s	3.7
7.	Exit Gas Flow	m ³ /h	418.6

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	By TVOC Meter

Remarks:

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

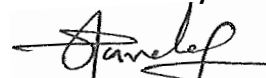
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



TEST REPORT
(STACK MONITORING)

ULR - TC77532400008838F			
Test Report No.	URA/24/08/AIL-J/S-006	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/006	Service Request Date.:	05/08/2024
Sample ID No.	URA/ID/S-24/08/006	Field Data Sheet No.:	URA/FDS/S-24/08/006
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	05/08/2024	Date of Testing	06/08/2024
Stack Sampling Attached to	CaCl₂ Dryer Vent		
Air Pollution Control Device	Wet Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	20
2.	Stack Diameter	mm	1900
3.	Stack Area	m ²	2.8364
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	38
6.	Exit Gas Velocity	m/s	11.2
7.	Exit Gas Flow	m ³ /h	114364.8

➤ **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	83.2	150	IS 11255 (Part 1)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949


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)**

Test Report No.	URA/24/08/AIL-J/S-006	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/006	Service Request Date.:	05/08/2024
Sample ID No.	URA/ID/S-24/08/006	Field Data Sheet No.:	URA/FDS/S-24/08/006
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	05/08/2024	Date of Testing	06/08/2024
Stack Sampling Attached to	CaCl ₂ Dryer Vent		
Air Pollution Control Device	Wet Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	20
2.	Stack Diameter	mm	1900
3.	Stack Area	m ²	2.8364
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	38
6.	Exit Gas Velocity	m/s	11.2
7.	Exit Gas Flow	m ³ /h	114364.8

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	By TVOC Meter

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 - TC77532400008844F			
Test Report No.	URA/24/08/AIL-J/S-012	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/012	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/012	Field Data Sheet No.:	URA/FDS/S-24/08/012
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	Chlorination Reactor Vent		
Air Pollution Control Device	Falling Film Absorber followed by Alkali Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	200
3.	Stack Area	m ²	0.0314
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	34
6.	Exit Gas Velocity	m/s	4.2
7.	Exit Gas Flow	m ³ /h	475.2

➤ **Test Parameter Results**

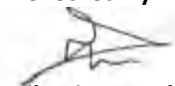
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm ³	1.7	20	UERL/AIR/SOP/07
2.	Chlorine as Cl ₂	mg/Nm ³	BDL (MDL:1.0)	09	SA EPA Method

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

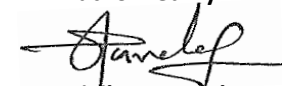
Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jaivik S. Tandel
(Manager - Operations)

**TEST REPORT
(STACK MONITORING)**

Test Report No.	URA/24/08/AIL-J/S-012	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/012	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/012	Field Data Sheet No.:	URA/FDS/S-24/08/012
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	Chlorination Reactor Vent		
Air Pollution Control Device	Falling Film Absorber followed by Alkali Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	200
3.	Stack Area	m ²	0.0314
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	34
6.	Exit Gas Velocity	m/s	4.2
7.	Exit Gas Flow	m ³ /h	475.2

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	By TVOC Meter

Remarks:

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

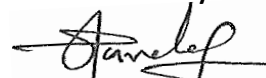
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



**TEST REPORT
(STACK MONITORING)**

ULR - TC77532400008845F			
Test Report No.	URA/24/08/AIL-J/S-013	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/013	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/013	Field Data Sheet No.:	URA/FDS/S-24/08/013
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	CLB - HCl Scrubber		
Air Pollution Control Device	Caustic Solution		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UURL/AIR/SMK/01		
Inst. Name:	Stack Monitoring Kit, VSS1	Serial Number:	467 DTJ 15
Cali. Date:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	750
3.	Stack Area	m ²	0.4420
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	34
6.	Exit Gas Velocity	m/s	3.6
7.	Exit Gas Flow	m ³ /h	5727.9

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm ³	BDL (MDL:1.0)	20	UURL/AIR/SOP/07

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

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)

Test Report No.	URA/24/08/AIL-J/S-013	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/013	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/013	Field Data Sheet No.:	URA/FDS/S-24/08/013
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	CLB - HCl Scrubber		
Air Pollution Control Device	Caustic Solution		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	750
3.	Stack Area	m ²	0.4420
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	34
6.	Exit Gas Velocity	m/s	3.6
7.	Exit Gas Flow	m ³ /h	5727.9

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	By TVOC Meter

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 - TC77532400008846F			
Test Report No.	URA/24/08/AIL-J/S-014	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/014	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/014	Field Data Sheet No.:	URA/FDS/S-24/08/014
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	CLB - Chlorine Scrubber		
Air Pollution Control Device	Caustic Solution		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UURL/AIR/SMK/01		
Inst. Name:	Stack Monitoring Kit, VSS1	Serial Number:	467 DTJ 15
Cali. Date:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	18
2.	Stack Diameter	mm	250
3.	Stack Area	m ²	0.0491
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	34
6.	Exit Gas Velocity	m/s	3.9
7.	Exit Gas Flow	m ³ /h	689.5

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Chlorine as Cl ₂	mg/Nm ³	BDL (MDL:1.0)	09	SA EPA Method

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

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)**

Test Report No.	URA/24/08/AIL-J/S-014	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/014	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/014	Field Data Sheet No.:	URA/FDS/S-24/08/014
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	CLB - Chlorine Scrubber		
Air Pollution Control Device	Caustic Solution		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	18
2.	Stack Diameter	mm	250
3.	Stack Area	m ²	0.0491
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	34
6.	Exit Gas Velocity	m/s	3.9
7.	Exit Gas Flow	m ³ /h	689.5

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	By TVOC Meter

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)

Test Report No.	URA/24/08/AIL-J/S-015	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/015	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/015	Field Data Sheet No.:	URA/FDS/S-24/08/015
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	CLB-PDCB Scrubber Storage		
Air Pollution Control Device	Single Stage, ODCB		
Fuel Used	--		

➤ **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:	19/08/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	50.8
3.	Stack Area	m ²	0.0020
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	36
6.	Exit Gas Velocity	m/s	5.9
7.	Exit Gas Flow	m ³ /h	43.1

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	7.1	--	BY TVOC METER

Remarks:

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

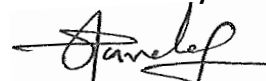
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



**TEST REPORT
(STACK MONITORING)**

ULR - TC77532400008870F			
Test Report No.	URA/24/08/AIL-J/S-038	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/038	Service Request Date.:	10/08/2024
Sample ID No.	URA/ID/S-24/08/038	Field Data Sheet No.:	URA/FDS/S-24/08/038
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	10/08/2024	Date of Testing	12/08/2024
Stack Sampling Attached to	TCB (2 Stage Scrubber)		
Air Pollution Control Device	--		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	50.8
3.	Stack Area	m ²	0.0020
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	4.1
7.	Exit Gas Flow	m ³ /h	29.9

➤ **Test Parameter Results**

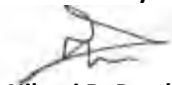
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm ³	4.1	20	UERL/AIR/SOP/07
2.	Chlorine as Cl ₂	mg/Nm ³	BDL (MDL:1.0)	09	SA EPA Method

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

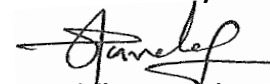
Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jaivik S. Tandel
(Manager - Operations)

**TEST REPORT
(STACK MONITORING)**

Test Report No.	URA/24/08/AIL-J/S-038	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/038	Service Request Date.:	10/08/2024
Sample ID No.	URA/ID/S-24/08/038	Field Data Sheet No.:	URA/FDS/S-24/08/038
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	10/08/2024	Date of Testing	12/08/2024
Stack Sampling Attached to	TCB (2 Stage Scrubber)		
Air Pollution Control Device	--		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	50.8
3.	Stack Area	m ²	0.0020
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	4.1
7.	Exit Gas Flow	m ³ /h	29.9

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	By TVOC Meter

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)

Test Report No.	URA/24/08/AIL-J/S-039	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/039	Service Request Date.:	10/08/2024
Sample ID No.	URA/ID/S-24/08/039	Field Data Sheet No.:	URA/FDS/S-24/08/039
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	10/08/2024	Date of Testing	12/08/2024
Stack Sampling Attached to	TCB ODCB Scrubber		
Air Pollution Control Device	--		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	76.5
3.	Stack Area	m ²	0.0046
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	4.4
7.	Exit Gas Flow	m ³ /h	72.8

➤ **Test Parameter Results**

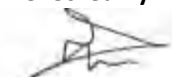
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	3.1	--	BY TVOC METER

Remarks:

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

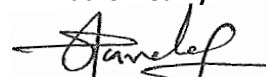
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



TEST REPORT
(STACK MONITORING)

ULR - TC77532400008872F			
Test Report No.	URA/24/08/AIL-J/S-040	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/040	Service Request Date.:	10/08/2024
Sample ID No.	URA/ID/S-24/08/040	Field Data Sheet No.:	URA/FDS/S-24/08/040
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	10/08/2024	Date of Testing	12/08/2024
Stack Sampling Attached to	Group IB: Chlorination Products and its Derivatives Scrubber		
Air Pollution Control Device	Falling Film Absorber followed by Alkali Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	200
3.	Stack Area	m ²	0.0314
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	36
6.	Exit Gas Velocity	m/s	4.8
7.	Exit Gas Flow	m ³ /h	543.1

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm ³	3.8	20	UERL/AIR/SOP/07
2.	Chlorine as Cl ₂	mg/Nm ³	BDL (MDL:1.0)	09	SA EPA Method

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)

Test Report No.	URA/24/08/AIL-J/S-040	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/040	Service Request Date.:	10/08/2024
Sample ID No.	URA/ID/S-24/08/040	Field Data Sheet No.:	URA/FDS/S-24/08/040
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	10/08/2024	Date of Testing	12/08/2024
Stack Sampling Attached to	Group IB: Chlorination Products and its Derivatives Scrubber		
Air Pollution Control Device	Falling Film Absorber followed by Alkali Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	200
3.	Stack Area	m ²	0.0314
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	36
6.	Exit Gas Velocity	m/s	4.8
7.	Exit Gas Flow	m ³ /h	543.1

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	By TVOC Meter

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 - TC77532400008864F			
Test Report No.	URA/24/08/AIL-J/S-032	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/032	Service Request Date.:	09/08/2024
Sample ID No.	URA/ID/S-24/08/032	Field Data Sheet No.:	URA/FDS/S-24/08/032
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	09/08/2024	Date of Testing	10/08/2024
Stack Sampling Attached to	DAPBI Process Scrubber		
Air Pollution Control Device	Alkali Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	152.4
3.	Stack Area	m ²	0.0182
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	3.8
7.	Exit Gas Flow	m ³ /h	249.6

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm ³	3.1	20	UERL/AIR/SOP/07
2.	Chlorine as Cl ₂	mg/Nm ³	BDL (MDL:1.0)	09	SA EPA Method

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

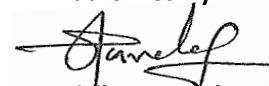
Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
(STACK MONITORING)

Test Report No.	URA/24/08/AIL-J/S-032	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/032	Service Request Date.:	09/08/2024
Sample ID No.	URA/ID/S-24/08/032	Field Data Sheet No.:	URA/FDS/S-24/08/032
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	09/08/2024	Date of Testing	10/08/2024
Stack Sampling Attached to	DAPBI Process Scrubber		
Air Pollution Control Device	Alkali Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	152.4
3.	Stack Area	m ²	0.0182
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	3.8
7.	Exit Gas Flow	m ³ /h	249.6

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	By TVOC Meter

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 - TC77532400008865F			
Test Report No.	URA/24/08/AIL-J/S-033	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/033	Service Request Date.:	09/08/2024
Sample ID No.	URA/ID/S-24/08/033	Field Data Sheet No.:	URA/FDS/S-24/08/033
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	09/08/2024	Date of Testing	10/08/2024
Stack Sampling Attached to	DAPBI Process Scrubber		
Air Pollution Control Device	Acidic Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	152.4
3.	Stack Area	m ²	0.0182
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	38
6.	Exit Gas Velocity	m/s	3.5
7.	Exit Gas Flow	m ³ /h	229.9

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Ammonia as NH ₃	mg/Nm ³	10.8	175	IS: 11255 (Part-6)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

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)

Test Report No.	URA/24/08/AIL-J/S-033	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/033	Service Request Date.:	09/08/2024
Sample ID No.	URA/ID/S-24/08/033	Field Data Sheet No.:	URA/FDS/S-24/08/033
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	09/08/2024	Date of Testing	10/08/2024
Stack Sampling Attached to	DAPBI Process Scrubber		
Air Pollution Control Device	Acidic Scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	152.4
3.	Stack Area	m ²	0.0182
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	38
6.	Exit Gas Velocity	m/s	3.5
7.	Exit Gas Flow	m ³ /h	229.9

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	By TVOC Meter

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 - TC77532400008857F			
Test Report No.	URA/24/08/AIL-J/S-025	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/025	Service Request Date.:	08/08/2024
Sample ID No.	URA/ID/S-24/08/025	Field Data Sheet No.:	URA/FDS/S-24/08/025
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	08/08/2024	Date of Testing	09/08/2024
Stack Sampling Attached to	Scrubber connected to Nitration Reactor		
Air Pollution Control Device	2 Stage scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	29
2.	Stack Diameter	mm	76.2
3.	Stack Area	m ²	0.0046
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	38
6.	Exit Gas Velocity	m/s	4.1
7.	Exit Gas Flow	m ³ /h	67.3

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Oxide of Nitrogen	mg/Nm ³	7.4	25	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949


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)**

Test Report No.	URA/24/08/AIL-J/S-025	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/025	Service Request Date.:	08/08/2024
Sample ID No.	URA/ID/S-24/08/025	Field Data Sheet No.:	URA/FDS/S-24/08/025
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	08/08/2024	Date of Testing	09/08/2024
Stack Sampling Attached to	Scrubber connected to Nitration Reactor		
Air Pollution Control Device	2 Stage scrubber		
Fuel Used	--		

➤ **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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	29
2.	Stack Diameter	mm	76.2
3.	Stack Area	m ²	0.0046
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	38
6.	Exit Gas Velocity	m/s	4.1
7.	Exit Gas Flow	m ³ /h	67.3

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	By TVOC Meter

Remarks:

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

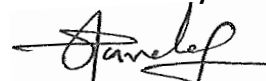
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)

Annexure-19

Process Gas Stack Emission Monitoring Results

Sr. No	Stack Attached to*	Parameter	Apr'24	May'24	Jun'24	Jul'24	Aug'24	Sep'24
1	HCl Scrubber (Storage)	HCl	3.7	4.2	3.6	3.2	3.8	9.4
2	CaCO3 Reactor (CaCl2 plant)	HCL	3.8	4.2	4.5	3.6	3.7	6
3	Reformer (Hydrogen)	CO	Plant Shut Down	Plant Shut Down	Plant Shut Down	Plant Shut Down	Plant Shut Down	Plant Shut Down
4	Chlorinator Reactor Vent	HCL	3.3	2.8	3.8	2.1	1.7	2.1
		Cl	BDL	BDL	BDL	BDL	BDL	BDL
5	CLB-HCL Scrubber (Storage)	HCL	BDL	BDL	BDL	BDL	BDL	BDL
6	CLB-Cl2 Scrubber (Storage/Pipeline)	Cl2	BDL	BDL	BDL	BDL	BDL	BDL
6	CLB - PDCB Scrubber (Storage)	VOC	BDL	BDL	BDL	BDL	BDL	BDL
7	TCB Scrubber	HCL	2.1	3.2	3.6	3.1	4.1	4.8
		Cl2	BDL	BDL	BDL	BDL	BDL	BDL
8	TCB ODCB Scrubber (Storage)	VOC	4.2	2.8	6.1	5.2	3.1	2.8
9	Group IB: Chlorination Products and its Derivatives Scrubber	HCl	2.1	3.6	2.9	1.7	3.8	3.2
		Cl2	BDL	BDL	BDL	BDL	BDL	BDL
10	DAPBI Process (Alkali Scrubber)	HCl	3.1	2.8	4.2	Plant Shut Down	3.1	4.4
		Cl2	BDL	BDL	BDL		BDL	BDL
11	DAPBI Process (Acidic Scrubber)	NH3	30.8	18.2	28.1	Plant Shut Down	10.8	18.1
12	ETP Scrubber	NH3	20.1	16.8	24.1	Plant Shut Down	20.4	26.4
13	Scrubber connected to Nitration Reactors	NOx	14.8	6.8	10.6	4.8	7.4	10.6

Annexure-20

Details of Spent Hydrochloric Acid Management:

Sr No	Name of Hazardous Waste & Category	CCA applied Quantity (MT/Annum)	Mode of Disposal	End-Users Name	Address	MOU/ Utilization Quantity (MT/Annum)	End User CCA details
1	Hydrochloric Acid (B15 of Schedule-II)	196265	Reception, storage and consumption in inhouse CaCl₂ plant	Aarti Industries Limited (XGN ID: 35534)	Internal consumption within same premises	148097	AWH-119949 Issued on 05.07.2022 Valid upto: 30.04.2029
2			Generation, Collection, storage, Transportation, and selling out to authorized users who are having authorization with valid CCA and rule 9 permission to receive this waste.	Aarti Industries Limited (Acid Division)	Plot No. 802, 803, 804/3, Phase-III, GIDC Industrial Estate, Vapi - 396195, Dist.: Valsad, Gujarat.	80000	AWH-104790 Issued on: 25.10.2019 Valid upto: 30.06.2024
3				Aarti Industries Limited (Alchemie Organics Division)	Plot No. 902, Phase-III, GIDC Industrial Estate, Vapi - 396195, Dist.: Valsad, Gujarat.	15000	AWH-123323 Issue on: 19.12.2022 Valid Upto 30.09.2029
4				Vasu Industries	Plot No. 503, 504, Bamanbore GIDC, Taluka Chotila, Dist. Surendranagar-363001, Gujarat.	18000	AWH - 122524 Issue on: 12.11.2022 Valid Upto 08.10.2027

5				Brions Bioscience	Plot No. 311, Bamanbore GIDC Rajkot, Taluka Chotila, Dist. Surendranagar-360023, Gujarat.	12000	AWH - 127071 Issue on: 20.06.2023 Valid Upto 11.05.2028 CCA No-H-131273 Issue on: 05.01.2024 Valid Upto 11.05.2028
6				Aarti Industries Limited (Anushakti Division)	Plot No. 1430/1, N.H. No. 8A, Bhachau-370140, Tal: Bhachau, Dist. Kutch, Gujarat	36000	AWH-106201 Issued on: 16.01.2020 Valid upto 31.12.2024
7				Shreyas Industries	Survey No. 202/4, Opp. Power Station, Golana Khambhat Road, Vill. Sokhada, Tal. Khambhat, Dist. Anand Gujarat- 388620	6000	AWH-122304 Issued on 28.20.2022 Valid upto 30.06.2027
8				Shiv Chemicals	45 A, Road No. 3, Madri Industrial Area, Madri, Tehsil: Girwa, District: Udaipur, Rajasthan	12000	File No: F(Tech)/Udaipur(Girwa)/ 6970(1)/2022-2023/733- 734 Order No : 2023-2024/Udaipur/9774
9				Modheshwari Chemtech	Plot No. 1510, GIDC, Estate, Ankleshwar, Dist.: Bharuch, Gujarat	10213	AWH-131307 Issued on 03.01.2024 Valid upto 30.11.2024
10				Gharda Chemical Limited	Plot D-1/2, B-1/7, MIDC Lote Pershuram, Taluka - Khed, Dist: Ratnagiri, Maharashtra - 415722.	18000	Format 1.0/CAC/UAN No. 0000092566/CR-2009000 532 Issued on: 09.09.2022 Valid upto 31.07.2025

11				Joyas Agro Chem	Plot/Survey No.1659, Village: Kanoda -384212 Tal: Becharaji, Dist. Mehsana, Gujarat	6000	GPCB/CCA-MH-1411/ID-8 7194/760941 Issued on 13.12.2023 Valid upto 31.12.2027
12				Palsai Industries Private Limited	Gut No 426/1, Patlipada, Palsai, Tal:- Wada, Dist:- Palghar, Maharashtra.	18000	Format 1.0/RO(BMW) /UAN No.MPCB- CONSENT-0000196066/C O/2405001336 Issued on 15.05.2024 Valid upto 30.04.2029
13				ACS Industries	Plot No. 2702, GIDC ESTATE PANOLI, DIST-BHARUCH, GUJARAT	5000	AWH-136719 Issued on 21.08.2024 Valid upto 15.04.2029
A	Total MoU Quantity for External utilization by end-users under Rule-9 (MT/Annum)					384310	-
B	Total Internal utilization for manufacturing of CaCl ₂ (MT/Annum)					148097	-
	Grand Total (A+B) in MT/Annum					532407	-

Annexure-21

CSR/CER Activities from Apr'24 to Sep'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	Farmbridge	Farmer's Awareness & Training	400000	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
2	AIL Jhagadia	Gram Vikas Trust	Vidhya Sathi Project at 69 Govt. schools of Bharuch district Total 78 teachers & 3 project co-ordinators	3400000	Students of 69 Gov. Schools	To enhance double student level in Education to Govt. Schools
3	AIL Jhagadia	Chauhan Brothers	Water Drip Irrigation System installed through Infrastructure Upgradation Project in Police Headquator	236000	-	Development of Infrastructre @ SP Office, Bharuch
4	AIL Jhagadia	Sharda Mahila Vikas Society, Jhagadi (Sewa Rural)	Provide Uniform to the students of Fulwadi Village School	98320	-Benefit 151 Students -Stiches charges pay to Mahila Vikas Society	Development of Student & Women Society
5	AIL Jhagadia	VSSM Foundation	Greenbelt Development & Care of Tress	110000	Protect Environment Surrounding Area	Protect Environment
6	AIL Jhagadia	Gram Vikas Trust	Aarti Play School (Hindi Medium)	600000	For education of 4 to 6 year child (70 Students)	To get the beneficiary to migrated workers family & motivate their children for education
Total				4844320		

Annexure-22

Ambient Noise Monitoring Results

Sr. No.	Location	Permissible Limit		Apr'24		May'24		Jun'24		Jul'24		Aug'24		Sep'24	
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
1	Near PDA Gate	75 dB(A)	70 dB(A)	61.6	58.3	61.1	58.0	61.5	58.1	60.8	57.5	61.3	58.4	61.0	57.6
2	New PDA Cooling Tower			70.5	67.6	69.6	67.0	70.6	67.6	69.9	67.2	70.4	67.6	70.0	67.0
3	Near 40 LacKcal/Hr TFH Area			67.5	65.0	67.4	64.8	67.7	64.9	67.2	64.6	68.0	65.1	67.2	64.5
4	Near CaCl ₂ Granulation Plant			67.7	64.6	67.6	64.3	68.1	64.4	67.4	63.8	67.7	64.4	67.6	64.0
5	Near CaCl ₂ material gate			65.5	62.8	65.1	62.3	65.6	62.6	65.0	62.1	65.4	62.6	65.2	62.3
6	Near CaCl ₂ STP			68.8	65.0	67.8	64.8	68.5	65.1	68.0	64.4	68.7	64.9	68.2	64.8
7	H ₂ G plant Main Gate			67.2	64.9	66.9	64.4	67.6	65.1	66.6	64.3	67.3	65.2	66.9	64.7
8	Near CLB Cooling Tower			73.2	69.3	73.8	69.1	74.2	69.4	73.8	68.6	73.7	69.4	72.8	69.0
9	Near TCAN Plant Tank Farm			61.9	59.2	61.4	58.5	61.7	59.2	61.5	58.7	61.9	59.4	61.4	58.6
10	Near CLB STP			60.3	56.9	59.9	56.7	60.3	57.1	59.7	56.6	60.2	57.0	60.0	56.6
11	Near 25 DCNB weighbridge			59.3	56.3	58.6	55.5	59.3	56.0	58.8	55.7	59.6	56.1	58.6	55.6
12	Near 25 DCNB material Gate 2			60.5	57.5	60.2	56.9	60.7	57.6	60.3	57.3	60.6	57.8	60.4	57.1
13	Near Endeca Admin building			61.9	58.8	61.5	58.0	61.9	58.6	61.4	58.2	61.9	58.4	61.2	58.1
14	Near GOLD gate			60.6	57.2	60.2	56.9	61.0	57.5	60.2	57.1	60.7	57.3	60.0	57.1
15	Near GOLD warehouse			60.3	57.8	59.6	57.6	60.6	57.7	59.7	57.6	60.5	57.7	59.9	57.6



TEST REPORT
AMBIENT NOISE LEVEL MONITORING REPORT

ULR - TC77532400008884F			
Test Report No.:	URA/24/08/AIL-J/AN-002	Date Of Report:	06/09/2024
Name & Add. of Industries	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
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 : 05 & 06/08/2024


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 PDA Gate	61.3	58.4	75 dB (A)	70 dB (A)
2.	Nr. PDA Cooling Tower	70.4	67.6	75 dB (A)	70 dB (A)
3.	Near 40 LackCal/Hr TFH Area	68.0	65.1	75 dB (A)	70 dB (A)
4.	Near CaCl ₂ Granulation Plant	67.7	64.4	75 dB (A)	70 dB (A)
5.	Near CaCl ₂ Material Gate	65.4	62.6	75 dB (A)	70 dB (A)
6.	Near CaCl ₂ STP Plant	68.7	64.9	75 dB (A)	70 dB (A)
7.	H2G Plant Main Gate	67.3	65.2	75 dB (A)	70 dB (A)
8.	Near CLB Cooling Tower	73.7	69.4	75 dB (A)	70 dB (A)
9.	Near TCAN Plant Tank Farm	61.9	59.4	75 dB (A)	70 dB (A)
10.	Near CLB STP	60.2	57.0	75 dB (A)	70 dB (A)

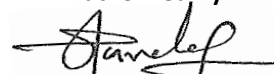
Remarks:
Opinion & Interpretation (if required):

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jaivik S. Tandel
(Manager - Operations)



TEST REPORT
AMBIENT NOISE LEVEL MONITORING REPORT

ULR - TC775324000008884F			
Test Report No.:	URA/24/08/AIL-J/AN-002	Date Of Report:	06/09/2024
Name & Add. of Industries	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
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 : 05 & 06/08/2024

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 2,5 DCNB Weighbridge	59.6	56.1	75 dB (A)	70 dB (A)
12.	Near 2,5 DCNB Material Gate 2	60.6	57.8	75 dB (A)	70 dB (A)
13.	Near Endaca Admin Building	61.9	58.4	75 dB (A)	70 dB (A)
14.	Near GOLD Gate	60.7	57.3	75 dB (A)	70 dB (A)
15.	Near GOLD Warehouse	60.5	57.7	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)



TEST REPORT
(STACK MONITORING)

ULR - TC77532400008855F			
Test Report No.	URA/24/08/AIL-J/S-023	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/023	Service Request Date.:	08/08/2024
Sample ID No.	URA/ID/S-24/08/023	Field Data Sheet No.:	URA/FDS/S-24/08/023
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	08/08/2024	Date of Testing	09/08/2024
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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	124
6.	Exit Gas Velocity	m/s	14.4
7.	Exit Gas Flow	m ³ /h	2627.8

➤ **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	82.6	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	5.8	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	35.2	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949


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)**

Test Report No.	URA/24/08/AIL-J/S-023	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/023	Service Request Date.:	08/08/2024
Sample ID No.	URA/ID/S-24/08/023	Field Data Sheet No.:	URA/FDS/S-24/08/023
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	08/08/2024	Date of Testing	09/08/2024
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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	124
6.	Exit Gas Velocity	m/s	14.4
7.	Exit Gas Flow	m ³ /h	2627.8

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	4.2	--	By TVOC Meter

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 - TC77532400008856F			
Test Report No.	URA/24/08/AIL-J/S-024	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/024	Service Request Date.:	08/08/2024
Sample ID No.	URA/ID/S-24/08/024	Field Data Sheet No.:	URA/FDS/S-24/08/024
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	08/08/2024	Date of Testing	09/08/2024
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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	128
6.	Exit Gas Velocity	m/s	13.6
7.	Exit Gas Flow	m ³ /h	2481.8

➤ **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	68.4	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	6.3	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	31.4	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949


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)**

Test Report No.	URA/24/08/AIL-J/S-024	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/024	Service Request Date.:	08/08/2024
Sample ID No.	URA/ID/S-24/08/024	Field Data Sheet No.:	URA/FDS/S-24/08/024
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	08/08/2024	Date of Testing	09/08/2024
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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	128
6.	Exit Gas Velocity	m/s	13.6
7.	Exit Gas Flow	m ³ /h	2481.8

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	3.6	--	By TVOC Meter

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 - TC775324000008839F			
Test Report No.	URA/24/08/AIL-J/S-007	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/007	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/007	Field Data Sheet No.:	URA/FDS/S-24/08/007
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	DG Set 3- 650 KVA		
Air Pollution Control Device	--		
Fuel Used	HSD		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UURL/AIR/SMK/01		
Inst. Name:	Stack Monitoring Kit, VSS1	Serial Number:	467 DTJ 15
Cali. Date:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	116
6.	Exit Gas Velocity	m/s	12.4
7.	Exit Gas Flow	m ³ /h	2262.9

➤ **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	76.6	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	5.2	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	38.2	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

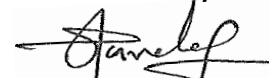
Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jaivik S. Tandel
(Manager - Operations)

TEST REPORT
(STACK MONITORING)

Test Report No.	URA/24/08/AIL-J/S-007	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/007	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/007	Field Data Sheet No.:	URA/FDS/S-24/08/007
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	DG Set 3- 650 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	116
6.	Exit Gas Velocity	m/s	12.4
7.	Exit Gas Flow	m ³ /h	2262.9

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	4.1	--	By TVOC Meter

Remarks:

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

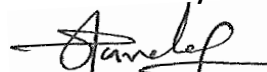
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



TEST REPORT
(STACK MONITORING)

ULR - TC775324000008840F			
Test Report No.	URA/24/08/AIL-J/S-008	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/008	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/008	Field Data Sheet No.:	URA/FDS/S-24/08/008
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	DG Set 4- 650 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	124
6.	Exit Gas Velocity	m/s	13.6
7.	Exit Gas Flow	m ³ /h	2481.8

➤ **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	81.4	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	8.1	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-119949


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)

Test Report No.	URA/24/08/AIL-J/S-008	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/008	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/008	Field Data Sheet No.:	URA/FDS/S-24/08/008
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	DG Set 4- 650 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	124
6.	Exit Gas Velocity	m/s	13.6
7.	Exit Gas Flow	m ³ /h	2481.8

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	3.1	--	By TVOC Meter

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 - TC775324000008841F			
Test Report No.	URA/24/08/AIL-J/S-009	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/009	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/009	Field Data Sheet No.:	URA/FDS/S-24/08/009
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	DG Set 5- 1250 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	25
2.	Stack Diameter	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	116
6.	Exit Gas Velocity	m/s	11.8
7.	Exit Gas Flow	m ³ /h	2153.4

➤ **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	79.2	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	6.6	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	34.7	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949


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)

Test Report No.	URA/24/08/AIL-J/S-009	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/009	Service Request Date.:	06/08/2024
Sample ID No.	URA/ID/S-24/08/009	Field Data Sheet No.:	URA/FDS/S-24/08/009
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	06/08/2024	Date of Testing	07/08/2024
Stack Sampling Attached to	DG Set 5- 1250 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	25
2.	Stack Diameter	mm	254
3.	Stack Area	m ²	0.0507
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	116
6.	Exit Gas Velocity	m/s	11.8
7.	Exit Gas Flow	m ³ /h	2153.4

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	4.2	--	By TVOC Meter

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 - TC77532400008875F			
Test Report No.	URA/24/08/AIL-J/S-043	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/043	Service Request Date.:	12/08/2024
Sample ID No.	URA/ID/S-24/08/043	Field Data Sheet No.:	URA/FDS/S-24/08/043
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/08/2024	Date of Testing	13/08/2024
Stack Sampling Attached to	DG Set 6 - 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	25
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	12.2
7.	Exit Gas Flow	m ³ /h	2226.4

➤ **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	84.6	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	5.4	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	39.2	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949


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)

Test Report No.	URA/24/08/AIL-J/S-043	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/043	Service Request Date.:	12/08/2024
Sample ID No.	URA/ID/S-24/08/043	Field Data Sheet No.:	URA/FDS/S-24/08/043
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/08/2024	Date of Testing	13/08/2024
Stack Sampling Attached to	DG Set 6 - 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	25
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	12.2
7.	Exit Gas Flow	m ³ /h	2226.4

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	3.8	--	By TVOC Meter

Remarks:

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

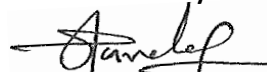
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



**TEST REPORT
(STACK MONITORING)**

ULR - TC77532400008876F			
Test Report No.	URA/24/08/AIL-J/S-044	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/044	Service Request Date.:	12/08/2024
Sample ID No.	URA/ID/S-24/08/044	Field Data Sheet No.:	URA/FDS/S-24/08/044
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/08/2024	Date of Testing	13/08/2024
Stack Sampling Attached to	DG Set 7 - 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	131
6.	Exit Gas Velocity	m/s	11.4
7.	Exit Gas Flow	m ³ /h	2080.4

➤ **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	73.8	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	6.1	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	40.1	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949


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)

Test Report No.	URA/24/08/AIL-J/S-044	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/044	Service Request Date.:	12/08/2024
Sample ID No.	URA/ID/S-24/08/044	Field Data Sheet No.:	URA/FDS/S-24/08/044
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/08/2024	Date of Testing	13/08/2024
Stack Sampling Attached to	DG Set 7 - 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	131
6.	Exit Gas Velocity	m/s	11.4
7.	Exit Gas Flow	m ³ /h	2080.4

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	4.4	--	By TVOC Meter

Remarks:

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

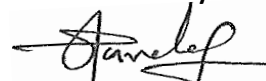
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



**TEST REPORT
(STACK MONITORING)**

ULR - TC77532400008878F			
Test Report No.	URA/24/08/AIL-J/S-045	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/045	Service Request Date.:	12/08/2024
Sample ID No.	URA/ID/S-24/08/045	Field Data Sheet No.:	URA/FDS/S-24/08/045
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/08/2024	Date of Testing	13/08/2024
Stack Sampling Attached to	DG Set 8 - 1010 KVA		
Air Pollution Control Device	Carbon Cutter		
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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	124
6.	Exit Gas Velocity	m/s	14.6
7.	Exit Gas Flow	m ³ /h	2664.3

➤ **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	33.6	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	7.1	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	32.8	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

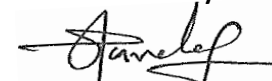
Remarks:
Opinion & Interpretation (if required): BDL: Below Detection Limit

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

Checked By:


Nikunj D. Patel
(Chemist)

Authorized By:


Jaivik S. Tandel
(Manager - Operations)

**TEST REPORT
(STACK MONITORING)**

Test Report No.	URA/24/08/AIL-J/S-045	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/045	Service Request Date.:	12/08/2024
Sample ID No.	URA/ID/S-24/08/045	Field Data Sheet No.:	URA/FDS/S-24/08/045
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/08/2024	Date of Testing	13/08/2024
Stack Sampling Attached to	DG Set 8 - 1010 KVA		
Air Pollution Control Device	Carbon Cutter		
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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	124
6.	Exit Gas Velocity	m/s	14.6
7.	Exit Gas Flow	m ³ /h	2664.3

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	2.9	--	By TVOC Meter

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 - TC77532400008879F			
Test Report No.	URA/24/08/AIL-J/S-046	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/046	Service Request Date.:	12/08/2024
Sample ID No.	URA/ID/S-24/08/046	Field Data Sheet No.:	URA/FDS/S-24/08/046
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/08/2024	Date of Testing	13/08/2024
Stack Sampling Attached to	DG Set 9 - 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	122
6.	Exit Gas Velocity	m/s	10.2
7.	Exit Gas Flow	m ³ /h	1861.4

➤ **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	80.7	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	6.6	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	34.4	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949


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)

Test Report No.	URA/24/08/AIL-J/S-046	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/046	Service Request Date.:	12/08/2024
Sample ID No.	URA/ID/S-24/08/046	Field Data Sheet No.:	URA/FDS/S-24/08/046
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/08/2024	Date of Testing	13/08/2024
Stack Sampling Attached to	DG Set 9 - 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	122
6.	Exit Gas Velocity	m/s	10.2
7.	Exit Gas Flow	m ³ /h	1861.4

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	4.0	--	By TVOC Meter

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 - TC775324000008861F			
Test Report No.	URA/24/08/AIL-J/S-029	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/029	Service Request Date.:	09/08/2024
Sample ID No.	URA/ID/S-24/08/029	Field Data Sheet No.:	URA/FDS/S-24/08/029
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	09/08/2024	Date of Testing	10/08/2024
Stack Sampling Attached to	DG Set 10 - 320 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	10
2.	Stack Diameter	mm	168
3.	Stack Area	m ²	0.0222
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	12.1
7.	Exit Gas Flow	m ³ /h	966.0

➤ **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	78.2	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	6.4	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	30.6	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949


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)

Test Report No.	URA/24/08/AIL-J/S-029	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/029	Service Request Date.:	09/08/2024
Sample ID No.	URA/ID/S-24/08/029	Field Data Sheet No.:	URA/FDS/S-24/08/029
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	09/08/2024	Date of Testing	10/08/2024
Stack Sampling Attached to	DG Set 10 - 320 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	10
2.	Stack Diameter	mm	168
3.	Stack Area	m ²	0.0222
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	12.1
7.	Exit Gas Flow	m ³ /h	966.0

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	3.2	--	By TVOC Meter

Remarks:

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

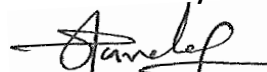
***** End of Report *****

Checked By:



Nikunj D. Patel
(Chemist)

Authorized By:



Jaivik S. Tandel
(Manager - Operations)



**TEST REPORT
(STACK MONITORING)**

ULR - TC775324000008862F			
Test Report No.	URA/24/08/AIL-J/S-030	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/030	Service Request Date.:	09/08/2024
Sample ID No.	URA/ID/S-24/08/030	Field Data Sheet No.:	URA/FDS/S-24/08/030
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	09/08/2024	Date of Testing	10/08/2024
Stack Sampling Attached to	DG Set 11 - 1500 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	36
5.	Flue Gas Temperature	°C	121
6.	Exit Gas Velocity	m/s	14.2
7.	Exit Gas Flow	m ³ /h	2591.3

➤ **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	83.3	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	5.8	100	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	33.9	50	IS 11255 (Part 7)

Note: 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949


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)

Test Report No.	URA/24/08/AIL-J/S-030	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/030	Service Request Date.:	09/08/2024
Sample ID No.	URA/ID/S-24/08/030	Field Data Sheet No.:	URA/FDS/S-24/08/030
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	09/08/2024	Date of Testing	10/08/2024
Stack Sampling Attached to	DG Set 11 - 1500 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	36
5.	Flue Gas Temperature	°C	121
6.	Exit Gas Velocity	m/s	14.2
7.	Exit Gas Flow	m ³ /h	2591.3

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	2.8	--	By TVOC Meter

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 - TC775324000008863F			
Test Report No.	URA/24/08/AIL-J/S-031	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/031	Service Request Date.:	09/08/2024
Sample ID No.	URA/ID/S-24/08/031	Field Data Sheet No.:	URA/FDS/S-24/08/031
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	09/08/2024	Date of Testing	10/08/2024
Stack Sampling Attached to	DG Set 12 - 1500 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	36
5.	Flue Gas Temperature	°C	126
6.	Exit Gas Velocity	m/s	12.6
7.	Exit Gas Flow	m ³ /h	2299.4

➤ **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	65.2	150	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	6.4	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-119949


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)

Test Report No.	URA/24/08/AIL-J/S-031	Report Issue Date:	06/09/2024
Service Request form No.	URA/SRF/08/031	Service Request Date.:	09/08/2024
Sample ID No.	URA/ID/S-24/08/031	Field Data Sheet No.:	URA/FDS/S-24/08/031
Name & Add. of Customer	M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	09/08/2024	Date of Testing	10/08/2024
Stack Sampling Attached to	DG Set 12 - 1500 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:	19/06/2024	Next Cali. Due On:	18/06/2025

➤ **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	36
5.	Flue Gas Temperature	°C	126
6.	Exit Gas Velocity	m/s	12.6
7.	Exit Gas Flow	m ³ /h	2299.4

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	3.6	--	By TVOC Meter

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)

Date: 12th April 2024
AIL/JH/2024/ENV/038

XGN ID :35534

To,
The Environmental Engineer-Ankleshwar
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector 10A,
Gandhinagar - 382010

Sub.: Annual compliance report of Fly Ash as per rule 3(7) of Fly Ash Notification for the period April 23 to March 24.

Respected Sir,

With reference to the above mentioned subject, we are submitting Annual compliance report for the period of April 23 to March 24. Compliance of the same is as follows:

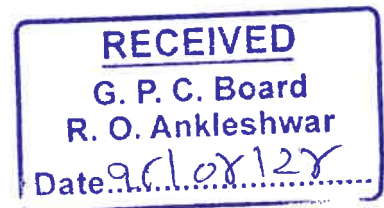
1. Coal or lignite based thermal power stations shall achieve the target of fly ash utilization as per schedule given in notification i.e. 100% utilization of fly ash.
Compliance: We are sending 100% of fly ash from our co-generation power plant to end users i.e the Manufacturer of Bricks. We have signed MoU with end users which is attached herewith as **Annexure-1**
2. TPP/CPP/Co-generation plant shall maintain a record of all sales and/or disposal of the fly ash.
Compliance: We are maintaining the record of sales of Fly Ash. Copy of the same has been attached for your ready reference. Data of the opening stock, fly ash generation, its sales and closing stock is attached as **Annexure 2**.
3. As per rule 2(4) of Fly Ash Notification coal or lignite based TPP/CPP/Co-generation plant shall constitute a dispute settlement committee.
Compliance: We have constituted a dispute settlement committee including Factory Manager & owner of the Bricks Manufacturer through Memorandum of Understanding (MoU).

We hope you will find the above in the order.

Thanking you,

For, Aarti Industries Limited (Unit-II), Jhagadia

Authorized Signatory



✓ CC: The Regional Officer, Gujarat Pollution Control Board, GIDC, Ankleshwar.

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. - 756/4-5-6-7 & 779, GIDC Jhagadia - 393 110, Dist - Bharuch, Gujarat (India).

Phone No. : 9537011611, 9537011711, 9537011811

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

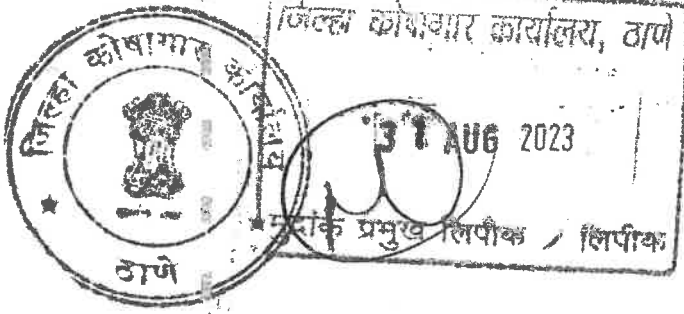
T : 022-67976666, F : 022-2565 3234 | E : info@aarti-industries.com



महाराष्ट्र MAHARASHTRA

2023

CB 464259



Memorandum of Understanding

This **Memorandum of Understanding** (hereinafter referred to as "MoU") is made and entered into on this 27th day of December 2023 (hereinafter referred to as the "Effective Date")

BY AND BETWEEN

AARTI INDUSTRIES LIMITED, a company incorporated under the laws of India, having its office at Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778, 779, GIDC Estate, Jhagadia, Dist-Bharuch, Gujarat, India and also having its corporate office at 4th Floor, Tower C, Embassy 247, LBS Road, Gandhi Nagar, Vikhroli (West), Mumbai - 400 083, Maharashtra, India (hereinafter referred to as the "Generator" (which expression shall, unless repugnant to the subject, context or meaning thereof, be deemed to mean and include its successors and assigns) of the **One Part**;



॥ १ ॥

31 AUG 2023

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SECRET

क्या कहेंगे कि यह सब सच है ?

1991

SECRET

सुविधा विचार्य चतुर्विधः स्तः ।

AART INDUSTRIES LTD.

UDYOG KSHETRA, 2nd FLOOR,

L.B.S. MARG, MULUND GOREGAON.

LINK ROAD, MULUND (W).

.....
MONTREAL 420 080.

संज्ञा

7-11-64

सुभाष चिन्तनसंग्रह - (संस्कृत भाषा में)

पुस्तक विहीने शिक्षण/पत्रा - लगे शिक्षण मग न्यायालय,
अथ (५) - पुस्तक

第(五) - 頁

9209089

ज्या कायनामोडी ज्याची भुवनेच तसेही केला त्यांनी
त्याच कायनामोडी भुवनेच असेही केलायाचाने
६ महिन्यांचा वापर करीत असल्याचं आहे.



महाराष्ट्र MAHARASHTRA

2023

73AA 328988



123 NOV 2023

AND

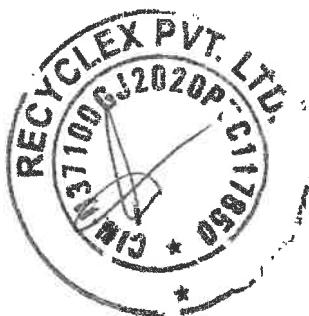
RECYCLEX PRIVATE LIMITED a company incorporated under the provisions of the laws of India and having its registered office at Survey No. 246, Sarangpur, Ankleshwar-393001, Gujarat, India hereinafter referred to as "Utilizer", (which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **Other Part**;

Generator and Utilizer are hereinafter individually referred to as "**Party**" and collectively as "**Parties**"

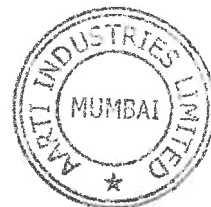
IT IS HEREBY MUTUALLY AGREED BETWEEN THE PARTIES AS UNDER



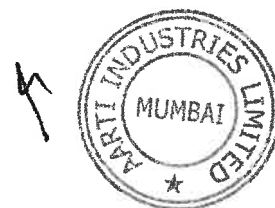
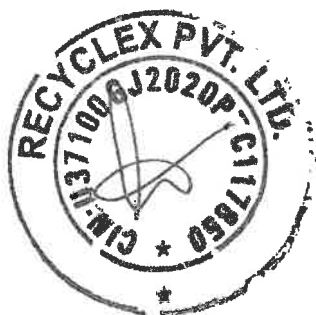
RECITALS	<p>A. Generator is engaged in the business <i>inter alia</i> of manufacturing, marketing, distribution and sale of specialty chemicals and related downstream products;</p> <p>B. Utilizer is engaged in the business of <i>inter alia</i> manufacturing of waste recycling and manufacturing green building products like bricks, building blocks from fly ash, and construction waste;</p> <p>C. Generator generates the Product as a waste material during their manufacturing process and has approached the Utilizer for the safe disposal of the same as per applicable rules and laws at the Utilizer's facility.</p>
PROPOSED TRANSACTION	The Utilizer has been evaluated and selected for receiving the Product generated from the manufacturing site of the Utilizer located at Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778, 779, GIDC Estate, Jhagadia, Dist-Bharuch, Gujarat, India " Manufacturing Site " and will execute safe disposal of the same as per applicable rules and laws.
PRODUCT	" Product " shall mean Fly ash that is being transferred to the Utilizer's facility for safe disposal as per the Fly Ash Notification 1999 and its subsequent amendments thereof.
QUANTITY	3000 MT/Year
SUPPLY PERIOD/TENURE	Commencing from 28.12.2023 and valid till 30.04.2029 subject to the Term.
DELIVERY TERMS	<ol style="list-style-type: none"> Parties agree that pickup of the Product from the Generator's facility to the Utilizer's Facility for transportation will be the responsibility of the Utilizer. Utilizer shall provide suitable dumpers/trucks or any other transit vehicles (Vehicles) as per the specifications, if any, prescribed by any government authority to Generator for transporting the Product to the Utilizer's unit at the cost of Generator in compliance with all applicable laws of India. Utilizer shall use AIS-140 compliant Global Positioning System (GPS) enabled dumpers or trucks and shall ensure API development of GPS of all the vehicles with Aarti Logistics Control Room (ALCR) before engaging in the services. The GPS service provider must be either 'Tracknow' or 'LCS' and shall have to share the GPS User ID, Password and AIS-140 certificate with Generator for tracking purpose. Utilizer shall comply with Motor Vehicle Act and Rules framed thereunder for carrying hazardous chemicals/waste.
Generator ROLES & RESPONSIBILITIES	<p>Key Roles & Responsibilities of Generator are:</p> <p>Generator shall keep record of inventory of Product generation, disposal & stock (as applicable) and shall make inventory available for inspection as per the Fly Ash Notification 1999 and its subsequent amendments thereof.</p>



Utilizer ROLES & RESPONSIBILITIES	<p>Key Roles & Responsibilities Utilizer of are:</p> <ol style="list-style-type: none"> 1. The Utilizer shall ensure that the vehicle shall be dedicated for transportation of Product and shall not be used for any other purposes. 2. The Utilizer shall ensure to cover the vehicle adequately with tarpaulin. 3. Utilizer should maintain necessary labels/markings of vehicle carrying the Product at all times as required by Motor Vehicle Act, 1988 and Motor Vehicle Rules, 1989 framed thereunder for carrying such waste. 4. The Utilizer shall ensure the cleaning of vehicles carrying Product shall be carried out at a designated place in Utilizer's facility. 5. The Utilizer shall keep record of inventory of Product receipt, disposal & stock (as applicable) and shall make inventory available for inspection as per the Fly Ash Notification 1999 and its subsequent amendments thereof. 6. The Utilizer shall be responsible in case of any illegal disposal of Product during the transportation and shall safely transport the Product from the premises of the Generator till the premises of the Utilizer. 7. The Utilizer shall follow and comply with requirements of guidelines/checklists formulated by the Generator. 8. The Utilizer shall ensure written communication to Generator through mail for acceptance of Product within one (1) day of receiving it at their premise.
UTILIZER REPRESENTATION	<p>Utilizer has represented and assured Generator that it has all the statutory approvals and permits for operating such a Product processing unit in an environmentally compliant manner and possess the necessary skills, manpower, knowledge and ability to do so.</p>
FORCE MAJEURE	<ol style="list-style-type: none"> i. This MoU and its performance shall be subject to Force Majeure. For the purpose of this clause Force Majeure shall mean and include any act of God, flood, explosion, earthquake, cyclone, storm, tidal wave, drought, landslide or similar disturbance, sabotage, fire, accident, insurrection, terrorist attack, fire, explosion, hurricane, tempest, embargo, landslide, perils at the sea, transporters strike, riot, plant breakdown, blockage, machinery breakdown confiscation, embargo, pandemic, epidemic, a law in change in law or order of any judicial/statutory/administrative/local authority or body, change in any act, order, proclamation, decree, war, strike, lock-out including at plant or mines, quarantine, in or other acts of God or any other event beyond the reasonable control, civil commotion regulation, ordinance, instruction, directives of government, and any other events beyond reasonable control of the Parties. ("Force Majeure"). ii. Either Party affected by Force Majeure shall be temporarily relieved from their obligations during the period of time such Force Majeure events continue and to the extent their liabilities are affected shall stand suspended and shall notify other Party of the same. Parties agree that Force Majeure shall not in any manner absolve each of them from their subsisting and continuing obligations under the MoU which are not affected by Force Majeure. iii. If an event of Force Majeure continues for more than 30 (thirty) calendar days, then Parties shall amicably discuss a way forward, including extending the Term.



TERM	This MoU shall come into effect on the Effective Date and shall, unless mutually extended in writing by the Parties, stand terminated on or before the completion of five (5) years from the Effective Date. ("Term").
INDEMNITY BY UTILIZER	The Utilizer shall defend, indemnify and save harmless directors, employees and agents of Generator against any and all direct claims, demands, fines, loses, damages, costs, penalties, expenses, actions, suits or proceedings, injuries, monetary liability on account of any act or omission, breach or nonconformance by the Utilizer with respect to the provisions contained in this MOU or any statutory non-compliance.
GOVERNING LAW AND JURISDICTION	This MoU shall be governed by, and construed in accordance with the laws, rules and regulations of India as amended or modified from time to time. (Applicable Laws).The High Court at Ahmedabad, India shall have sole and exclusive jurisdiction to try and entertain any disputes which may arise between the Parties.
DISPUTE RESOLUTION	Any dispute or differences under or in relation to this MoU or its interpretation thereof shall be amicably resolved by the Parties within a period of 30 days from the date of reference of the dispute by one Party to another. In the event the Parties fail to amicably resolve the dispute within the aforesaid period, such dispute/difference shall be referred to and resolved by binding arbitration of a sole arbitrator appointed in accordance with the Rules of the Mumbai Centre of International Arbitration (" MCIA Rules "), which MCIA Rules are deemed to be incorporated by reference into this Clause. The seat or legal place /venue of arbitration shall be at Ahmedabad. The language to be used in the arbitral proceedings shall be English.




IN WITNESS WHEREOF, the Parties have executed this MoU through their authorized representatives on the date and year first hereinabove mentioned.

SIGNED AND DELIVERED by the within named **AARTI INDUSTRIES LIMITED** through its Authorized Signatory

Ms. Sandhya Tolat in the presence of:

1. *Shraddha* (Shraddha Sharma)
2. *Agnish* (Agnish Agrawal)



Ms. Sandhya Tolat



For AARTI INDUSTRIES LIMITED

(General Counsel & Authorized Signatory)

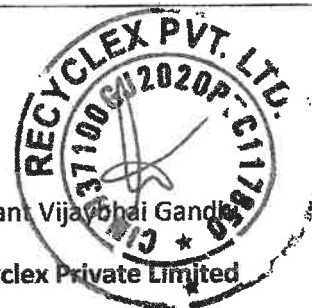
SIGNED AND DELIVERED by the within named Recyclex Private Limited through its Authorized Signatory

Mr. Vedant Vijaybhai Gandhi in the presence of:

1. *Abhishek Choudhary - Abhishek Choudhary*
2. *Deepak Mohi*



Mr. Vedant Vijaybhai Gandhi



For Recyclex Private Limited

(Authorized Signatory)



IN-GJ36939100265132V



सत्यमेव जयते

INDIA NON JUDICIAL Government of Gujarat

NOTARY

Certificate of Stamp Duty

Certificate No.

IN-GJ36939100265132V

Regd. No. 1166/23

Date : 1 APR 2023

Certificate Issued Date

01-Apr-2023 09:46 AM

Account Reference

IMPACC (AC)/ gj13146611/ BHARUCH/ GJ-BH

Unique Doc. Reference

SUBIN-GJGJ1314661100712630065449V

Purchased by

MAYANK T PARMAR

Description of Document

Article 5(h) Agreement (not otherwise provided for)

Description

M O U

Consideration Price (Rs.)

0
(Zero)

First Party

MS AARTI INDUSTRIES LIMITED

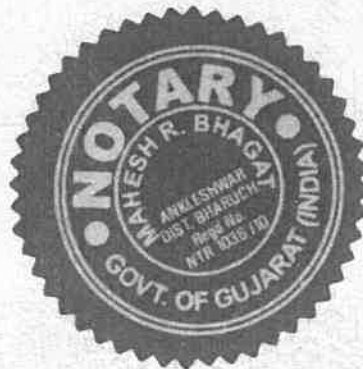
Second Party

MS SHREENATHJI BIRCKS

Stamp Duty Paid By

MS AARTI INDUSTRIES LIMITED

Stamp Duty Amount(Rs.)

300
(Three Hundred only)

JD 0038244180

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shelostamp.com' or using e-Stamp Mobile App of Stock holding.
2. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
3. In case of any discrepancy, please inform the Competent Authority.

- 
- The con/ www.shcilestamp.com "EStamp" are availat
 - Any alteration to this certificate renders it invalid and would constitute a criminal offence.
 - Kindly contact Stock Holding Branch / Centre in case of discrepency.
 - For information related to e-Stamping you may write to us on our email id estamp.ahmedabad@stockholding.com or visit our Branch/Centre.

સુચના

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

NOTARY

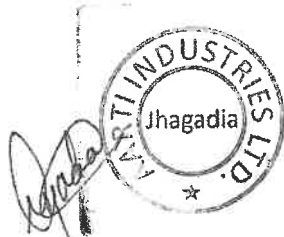
**MEMORANDUM OF UNDERSTANDING
BETWEEN**

Particulars	Generator	Utilizer
Name	M/s. Aarti Industries Limited, (Unit -II, Jhagadia)	M/s. Shreenathji Bricks
Address	Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778, 779, GIDC Estate, Jhagadia, Dist-Bharuch, Gujarat	Block No. 438, Vasravi, Tadkeshwar Mosali Road, Opp. Gujarat Agro, Mangrol, Vasravi, Surat, Gujarat-394421
CCA No.	AWH-119949 Issued on 05.07.2022 & Valid upto 30.04.2029	--
Issued by	Gujarat Pollution Control Board, Gujarat	--
Name of Material/Waste	Fly Ash	
MOU Quantity	3000 MT/Year	
Valid upto	30.04.2029	

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

That

1. Fly Ash Utilizer shall execute MOU with Fly Ash generator with below terms & conditions.
2. As a part of this MOU, the Fly Ash Utilizer has agreed to accept the Fly Ash generated from the manufacturing activities of the Generator.
3. Fly Ash shall be transported through AIS-140 compliant Global Positioning System (GPS) enabled dedicated dumpers/trucks only.
4. The Utilizer shall be responsible for transportation and ensure API development of GPS of all the vehicles with Aarti Logistics Control Room (ALCR) before engaging in the services.
5. Both the parties, the Generator and the Utilizer, shall keep record of inventory of Fly ash generation, disposal & stock (as applicable) and shall make inventory available for inspection.
6. The Transporter shall be responsible in case of any illegal disposal of fly ash during the transportation and shall safely transport the fly ash from the premises of the Generator till the premises of the Utilizer.
7. The Transporter shall ensure to cover the vehicle adequately with tarpaulin.
8. The Transporter shall follow and comply with requirements of guidelines/checklists formulated by the Generator.
9. The Transporter shall comply with Motor Vehicle Act and Rules framed thereunder for carrying Hazardous Chemicals/waste.
10. The Transporter shall ensure that the trucks shall be dedicated for transportation of Fly ash and shall not be used for any other purposes.




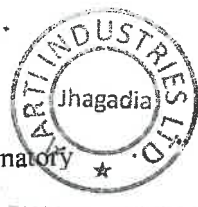
Shreenathji Bricks
Shreenathji bricks

NOTARY

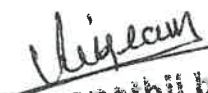
11. The Transporter shall ensure the cleaning of vehicles carrying Fly ash shall be carried out at designated Utilizer's facility.
12. The Utilizer shall ensure written communication to Generator through mail for acceptance of consignment.

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



Authorized Signatory



M/s. Shreenathji Bricks


Authorized Signatory

Mo. 98245 47610
MAHESH R. BHAGAT
Docu Reg. No. 1166123
NOTARY
Date 1/4/23
Reg. No. NTR/ANK/1036/10
Ankleshwar-01, Dist. Bharuch

BEFORE ME
EXECUTED ACCEPTED
& SIGNED BEFORE ME

MAHESH R. BHAGAT
NOTARY
NTR / 1036 / 10
ANKLESHWAR, DIST BHARUCH

- 1 APR 2023

INDIA NON JUDICIAL
Government of Gujarat

Certificate of Stamp Duty

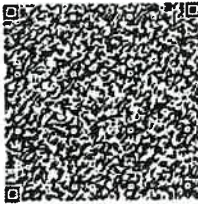
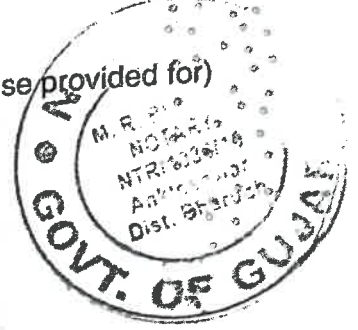


सत्यमेव जयते

NOTARY

Regd. No. (85412)
Date

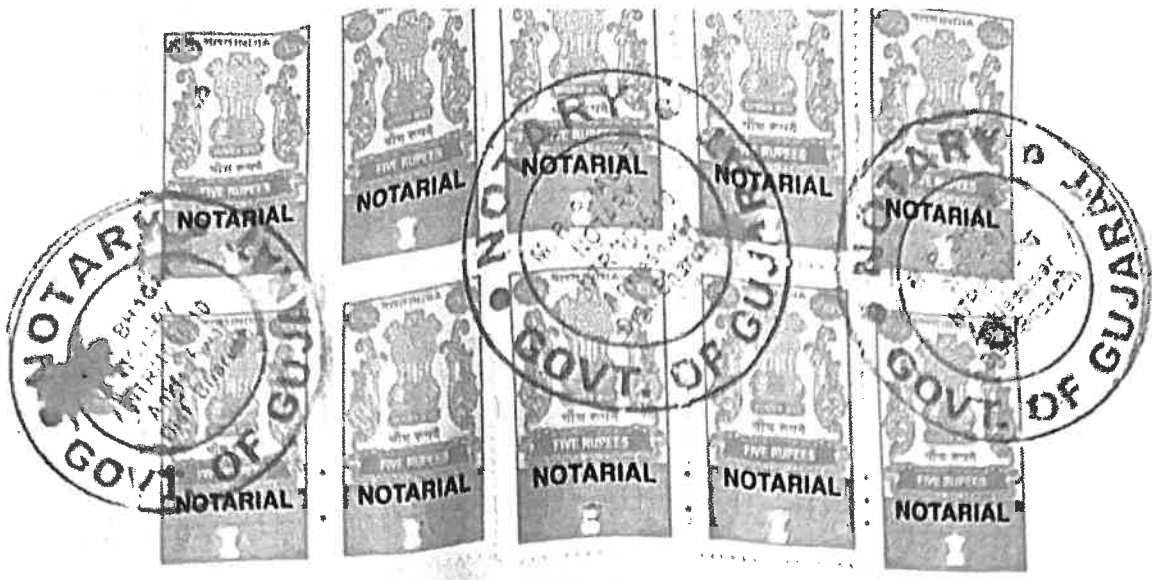
Certificate No. : IN-GJ71975004807353V
Certificate Issued Date : 29-May-2023 09:37 AM
Account Reference : IMPACC (AC)/ gj13146611/ BHARUCH/ GJ-BH
Unique Doc. Reference : SUBIN-GJGJ1314661170035007987447V
Purchased by : MAYANK T PARMAR
Description of Document : Article 5(h) Agreement (not otherwise provided for)
Description : M O U
Consideration Price (Rs.) : 0
(Zero)
First Party : MS AARTI INDUSTRIES LIMITED
Second Party : MS MANTRA BRICKS AND CEMENT ARTICLES
Stamp Duty Paid By : MS AARTI INDUSTRIES LIMITED
Stamp Duty Amount(Rs.) : 300
(Three Hundred only)



HE 0003011568

Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shikilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid
2. The onus of checking the legitimacy is on the users of the certificate
3. In case of any discrepancy please inform the Competent Authority



29 MAY 2023

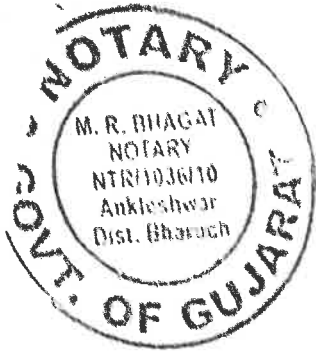
- The contents of this e-stamp certificate can be verified at www.shcilestamp.com, Stock Holding mobile application "EStamping" or at Stock Holding Branch/ Centre (the details of which are available at www.stockholding.com).

TARY

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

સૂચના

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

**NOTARY****NOTARY**

29 MAY 2023

**MEMORANDUM OF UNDERSTANDING
BETWEEN**

Particulars	Generator	Utilizer
Name	M/s. Aarti Industries Limited, (Unit -II, Jhagadia)	M/s. Mantra Bricks & Cement Articles
Address	Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778, 779, GIDC Estate, Jhagadia, Dist-Bharuch, Gujarat	Post Mandva, Taluka Ankleshwar, Dist. Bharuch, Gujarat.
CCA No.	AWH-119949 Issued on 05.07.2022 & Valid upto 30.04.2029	--
Issued by	Gujarat Pollution Control Board, Gujarat	--
Name of material/waste	Fly Ash	
MOU Quantity	2000 MT/Year	
Valid upto	30.04.2029	

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

- That
1. Fly Ash Utilizer shall execute MOU with Fly Ash generator with below terms & conditions.
 2. As a part of this MOU, the Fly Ash Utilizer has agreed to accept the Fly Ash generated from the manufacturing activities of the Generator.
 3. Fly Ash shall be transported through AIS-140 compliant Global Positioning System (GPS) enabled dedicated dumpers/trucks only.
 4. The Utilizer shall be responsible for transportation and ensure API development of GPS of all the vehicles with Aarti Logistics Control Room (ALCR) before engaging in the services.
 5. Both the parties, the Generator and the Utilizer, shall keep record of inventory of Fly ash generation, disposal & stock (as applicable) and shall make inventory available for inspection.
 6. The Transporter shall be responsible in case of any illegal disposal of fly ash during the transportation and shall safely transport the fly ash from the premises of the Generator till the premises of the Utilizer.
 7. The Transporter shall ensure to cover the vehicle adequately with tarpaulin.
 8. The Transporter shall follow and comply with requirements of guidelines/checklists formulated by the Generator.
 9. The Transporter shall comply with Motor Vehicle Act and Rules framed thereunder for carrying Hazardous Chemicals/waste.
 10. The Transporter shall ensure that the trucks shall be dedicated for transportation of Fly ash and shall not be used for any other purposes.

29 MAY 2023

NOTARY



- The Transporter shall ensure the cleaning of vehicles carrying Fly ash shall be carried out at designated Utilizer's facility.
12. The Utilizer shall ensure written communication to Generator through mail for acceptance of consignment.
13. The undersigned authorized signatory shall constitute as dispute settlement committee as per Rule 2(4) of Fly Ash notification 1999 and its amendments thereof and same shall be responsible to resolve any dispute arising out of business activities.

M/s. Aarti Industries Limited
(Unit-II, Bhagadia)



Authorized Signatory

M/s. Mantra Bricks & Cement
Articles

Mantra Brick And Cement Articles
29/05/23

Authorized Signatory Partner

29 MAY 2023

BEFORE ME
EXECUTED ACCEPTED
& SIGNED BEFORE ME
MAHESH R. BHAGAT
NOTARY
NTR / 1036 / 10
ANKLASHWAR, DIST. BHADRACH

Mo. 98245 47610
MAHESH R. BHAGAT
NOTARY Docu Reg. No. 1854123
Date 29/05/23
Reg. No. NTR/ANK/1036/10
Anklashwar-01, Dist. Bhadrach.

ANNEXURE - 2

Month	Fly Ash Opening Balance (MT)	Fly Ash Generation (MT)	Sold (MT)	Closing Balance (MT)
April-2023	14.433	132.595	127.660	19.368
May-2023	19.368	108.780	116.520	11.628
June-2023	11.628	123.938	125.800	9.766
July-2023	9.766	148.390	142.380	15.776
August-2023	15.776	110.209	109.320	16.665
September-2023	16.665	84.734	71.010	30.389
October-2023	30.389	113.290	129.480	14.199
November-2023	14.199	90.042	95.360	8.881
December-2023	8.881	87.336	70.710	25.507
January-2024	25.507	86.897	86.610	25.794
February-2024	25.794	94.142	107.980	11.956
March-2024	11.956	138.382	136.740	13.598
Year's Cumulative (1st April' 23 to 31st March' 24)				
2023-2024	Opening stock as on 01.04.23 14.433	1318.735	1319.570	Closing stock as on 31.03.24 13.598



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

Ref. BEIL/ANK/2022

05 November, 2022

To,

Aarti Industries Limited

Plot No.756/2 A & B, 756/3 A & B, 756/4 A & B, 756/5 A & B, 756/6,
756/7, 756/8, 756/9, 779,
GIDC Estate,
Jhagadia.

Sub: NOC for receiving Landfill waste

Dear Sir,

We are in receipt of your letter dt.04-11-2022. We would like to inform you that we have no objection in granting you our membership. **We shall be accepting your hazardous Landfill waste Qty. 40000 MT/Year at BEIL Infrastructure Ltd, Ankleshwar site Plot No. 9701-16, GIDC Estate, Ankleshwar.**

Hazardous waste acceptance is subject to verification of quality should be as per GPCB authorization.

- 1) **Total TSDF Capacity of BEIL Ankleshwar:** 5098000 MT
- 2) **Total Consented Capacity:** 5098000 MT
- 3) **Total Occupied Capacity:** 3842911.851 MT
- 4) **Spare Capacity:** 1255088.149 MT

Validity of this letter is for **Six** months from the date of issuance.

Thanking you,

Yours faithfully,

For, BEIL INFRASTRUCTURE LTD.


AUTHORISED SIGNATORY



BHARUCH ENVIRO INFRASTRUCTURE LIMITED

REF: BEIL/ANK/2016

12st July, 2016

To,
Aarti Industries Ltd. (Unit- II)
Plot No.756-4/5/6/7 & 779,
GIDC, Jhagadia.

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 Bharuch Enviro Infrastructure Ltd., at GIDC, Ankleshwar and Dahej. You have booked solid waste quantity **1500 MT/ Year** (Original Booked Quantity **100 MT** + Increased Quantity **1400 MT**). Your Membership No. is **Jhg/032**.

Thanking you,

Yours faithfully,
For, BHARUCH ENVIRO INFRASTRUCTURE LTD.

AUTHORISED SIGNATORY



06TH OCTOBER, 2022

To,

AARTI INDUSTRIES LTD. UNIT-2 (756)

PLOT NO:756/2 A & B, 756/3 A & B, 756/4 A & B,
756/5 A & B, 756/6 & 779,
GIDC ESTATE JHAGADIA,
DIST-BHARUCH.

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 **900 MT/Year**. You have paid Registration fees for common incinerator membership. Your Membership No. is **CI/JHG/035**.

Waste will be accepted after submitting valid authorization of GPCB.

Thanking you,

Yours faithfully,

For, BEIL INFRASTRUCTURE LIMITED


AUTHORISED SIGNATORY

Certificate

Certificate No: CPAW1A0044

To Whomsoever it may concern

This is to certify that

AARTI INDUSTRIES LIMITED.

756-4A/B, 5A/B, 6,7&779,

G.I.D.C., JHAGADIA,

DIST.BHARUCH,

JHAGADIA

is a valid member of

Recycling Solutions Private Limited

for Alternate Fuel Resource Facility.

This membership is valid for a period of

10 Years

Date of issue 07/09/2015

Date of expiration 06/09/2025

Place of issue : Panoli

For, Recycling Solutions Private Limited

Director/Authorised signatory

Waste Information :					
SrNo	Type Of Waste	Sign Qty (TPA)	SrNo	Type Of Waste	Sign Qty (TPA)
1	DISTILLATION RESIDUE	1,400.000			
Total Sign Qty (TPA) :					1,400.000

SUBJECT TO BHARUCH JURISDICTION

Certificate



To whomsoever it may concern
This is to certify that

Certificate No : 4100002389

AARTI INDUSTRIES LTD

756-4A/B, 5A/B, 6,7&779,
G.I.D.C., JHAGADIA,,DIST.BHARUCH,
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. - 28.1	600.000		-	0.000
Total Sign Qty (TPA)					600.000

Rodrigue
s Kevin

Digitally signed by Rodrigues
Kevin
DN: cn=Rodrigues Kevin c=IN
o=Personal
Reason: I am the author of this
document
Location:
Date: 2022-04-01 11:28+05:30

SUBJECT TO JURISDICTION

Page No : 1

Ambuja Cement

To,
Arati Industries Ltd
Plot No. 756/2 A&B, 756/3 A&B. 756/4
A&B. 756/5 A&B, 756/6, 779,
GIDC Estate, Jhagadia, Dist. Bharuch


04th,October, 2021

Sub.: Co-processing of your waste stream at M/s Ambuja Cements Ltd., P.O. Ambujanagar, Tal. : Kodinar, Dist-GirSomnath

Dear Sir,
This has reference to your request for issuance of supporting letter for amendment of your CCA forfollowing waste stream Co-processing in kilns of M/s Ambuja Cements Ltd., Ambujanagar, Tal-Kodinar, Dist-GirSomnath. We have got facilities for pre-processing and co-processing of below mentioned waste at our Ambujanagar plant.

Sr. No.	Name of the Company	Name of Waste	Volume MTPA
1.	Arati Industries Ltd	Distillation Residue (28.1)	1404
2	Arati Industries Ltd	Process residue (26.1)	363

We request you to amend your CCA Waste Quantity or volume with addition of above waste as waste stream being generated &Co-processing as a mode of disposal option.
We can accept your waste for co-processing only if it is as per our acceptance criteria and completions of all necessary formalities in this regards.

Thanking you,
For Ambuja Cements Ltd
Unit Ambuja Cement

Authorised Signatory.

Mr. Satendra Singh
CPH.

Ambuja Cements Limited
(Unit : Ambujanagar)

Regd. Office : P.O Ambujanagra- 362715, Tal : Kodinar, Dist : Gir-Somnath, Gujarat.
Phone : (02795) 221137 , 232009, fax (02795) 220328 , 232032



cement! sugar! refractories! power!

Ref No: DCBL/WM/002/21-22

Date: 06/08/2021

To,

Aarti Industries limited (U-II)
Plot No. 756/2 A&B, 756/3 A&B, 756/4A&B, 756/5 &B 756/6 & 779,
GIDC Estate, Jhagadia, Dist. Bharuch

Subject: Waste acceptance letter for various Hazardous Waste

As per the sample analysis of waste, it is suitable for Co-processing in cement Kilns and can be used as alternative fuel/raw material at Dalmia Cement (Bharat) Ltd, Rajgangpur.

Waste Name	Category No.	Qty (Mt/Year)
Distillation residues	28.1	1404
Process Residues	26.1	363.73

Dalmia Cement Bharat Ltd "DCBL" have the valid authorisation to Co-process the waste in Kilns.

DCBL can accept the waste as per authorisation and suitable characteristics of waste.

This is for your kind information.

Authorized Signatory

For Dalmia Cement Bharat Ltd



Dalmia Cement (Bharat) Limited

Rajgangpur, Sundargarh - 770 017, Odisha, India

T +91 6624 220 121 Toll Free 1800 2020 W www.dalmiacement.com CIN: U65191TN1996PLC035963

Registered Office: Dalmiapuram, District Tiruchirappalli - 621 651, Tamil Nadu, India

A. Member of CETP / TSDF ? Certificate (MEM) Uploaded in XGN on 25/08/2022 16:08:28 from IP No: 14.99.145.14.

B. 35534-Aarti Industries Limited accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.

Ambuja Cement

To,

25th Nov, 2021

Arati Industries Ltd

Plot No. 756/2 A&B, 756/3 A&B, 756/4

A&B, 756/5 A&B, 756/6, 779,

GIDC Estate, Jhagadia, Dist. Bharuch

Sub.: Co-processing of your waste stream at M/s Ambuja Cements Ltd., P.O. Ambujanagar, Tal. : Kodinar, Dist-GirSomnath

Dear Sir,

This has reference to your request for issuance of supporting letter for amendment of your CCA for following waste stream Co-processing in kilns of M/s Ambuja Cements Ltd., Ambujanagar, Tal-Kodinar, Dist-Gir Somnath. We have got facilities for pre-processing and co-processing of below mentioned waste at our Ambujanagar plant.

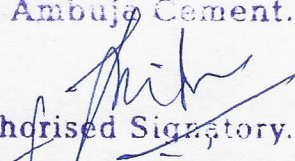
Sr. No.	Name of the Company	Name of Waste	Volume MTPA
1	Arati Industries Ltd	Silica Sludge from calcium chloride (35.3)	8640

We request you to amend your CCA Waste Quantity or volume with addition of above waste as waste stream being generated & Co-processing as a mode of disposal option.

We can accept your waste for co-processing only if it is as per our acceptance criteria and completions of all necessary formalities in this regards.

Thanking you,

For Ambuja Cements Ltd.
Unit Ambuja Cement.


Authorised Signatory.

Mr. Satendra Singh
CPH.

Ambuja Cements Limited

(Unit : Ambujanagar)

Regd. Office : P.O Ambujanagra- 362715, Tal : Kodinar, Dist : Gir-Somnath, Gujarat.

Phone : (02795) 221137 , 232009, fax (02795) 220328 , 232032

**Date:15.07.2020****TO WHOMSOEVER CONCERNED****CERTIFICATE**

We acknowledge the receipt of your letter dated 15th July 2020 requesting to grant a of membership for **M/s. Aarti Industries Ltd.** situated at **Plot No.756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6 & 779, GIDC Estate Jhagadia, Dist:Bharuch** for disposal of Distillation Residue, Process Residue, Spent Carbon, Off Specific Product, Contaminated Cotton/Wooden Waste,Spent Catalyst waste generated from their unit as details mentioned below:

<u>Sr. No.</u>	<u>Type of Waste</u>	<u>Quantity</u> <u>(MT/Annum)</u>
1	Distillation Residue	1,404
2	Process Residue	12,480
3	Spent Carbon	1,020
4	Off Specification Product	25
5	Contaminated Cotton Waste	150
6	Spent Catalyst	444

M/s. Saurashtra Enviro Projects Pvt. Ltd. shows its readiness to accept the above waste proposed by **M/s. Aarti Industries Ltd.** after they complete the necessary membership formalities and conducting Comprehensive analysis of their waste to confirm disposal pathway for its safe disposal at our site.

For,Saurashtra Enviro Projects Pvt. Ltd.**(Authorized Signatory)**



"Certificate"

DETOX INDIA
operated by **VEOLIA**

Certificate No.:101402

To Whomsoever it may concern

This is to certify that
AARTI INDUSTRIES LTD.

PLOT NO. 756/2 A&B, 756/3 A&B,
756/4 A&B, 756/5 A&B, 756/6 & 779,
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 : U51101GJ2015PTC083237



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 - 2)

Jhagadia

August 2023

Address:

Plot No: Plot No. 756/2/A/B,
756/3/A/B, 756/4/A/B,
756/5/A/B, 756/6, 756/7, 756/8
756/9 778, 779,
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 it has been 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 the complete as its only sets broad guidelines for emergency preparedness. Well planned and well rehearsed Emergency Plan will help organizations to mitigate / control emergency situation 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. Ajaykumar Gupta
Occupier

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	LANKESS INDIA PVT. LTD.	PLOT NO. 748/2A, 3, 4A, 4B GIDC MEGA ESTATE JHAGADIA-393110 Dist BHARUCH
4	Vardhaman Azylis Ltd.,	755, GIDC, Jhagadia Bharuch - 393110 amunbhadri@vardhaman.com
5	SAINT GOBAIN INDIA PVT LTD	PLOT No 36, GIDC 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 Pvt 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, 6/7 & 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



FOR VARDHMAN ACRYLICS LTD

Mr. Anurag Bhargava
Unit Head



FOR EVONIK SPECIALTY SILICA INDIA PVT. LTD.

Mr. Anurag Bhargava
FOR AARTI INDUSTRIES LTD



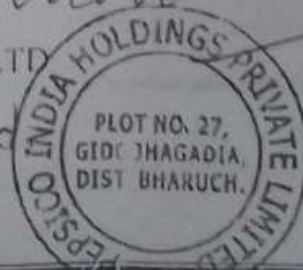
FOR KOHLER INDIA P. LTD

Vipinkumar



FOR PEPSICO HOLDING INDIA PVT. LTD

Mr. C. S. Guruprasad
Unit Head



(Sandeep Chakraborty)





**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

Form No. 32 & 33

Signs and symptoms observed during examination लक्षण दर्शिताना अवलोकित होणारे लक्षण		Nature of tests & results there of परीक्षा व परिणाम परीक्षा व परिणाम		Result परिणाम परिणाम		Period of temporary withdrawal from that work मोडक ठावणी मुदत		Reason for such withdrawal मोडक ठावणी कारण		Date of declaring him unfit for certificate मोडक ठावणी तारीख		Date of issuing fitness certificate मोडक ठावणी तारीख		Of the Factory Medical Officer the Certifying Surgeon मोडक ठावणी तारीख	
10	11	12	13	14	15	16	17								
Nil	Physical Pathology Met.Hb.13 U-Phospho NAD	Fit	-	-	-	-	DR. ABHIMAN MALIK F.S.S. & F.C. Reg. No. 6-2007 Factory Medical Officer वि. इन्डस्ट्रियल थ्रुट, मंगळूर								
Nil	Same as above X-ray	Fit	-	-	-	-	DR. Balabhadrasini Vasavi MBBS, CH G-54854								
Nil	Same as above Audio ECG,	Fit	-	-	-	-	DR. Balabhadrasini Vasavi MBBS, CH G-54854								
Nil	Same as above Audio ECG,	Fit	-	-	-	-	DR. Balabhadrasini Vasavi MBBS, CH G-54854								
Nil	Same as above Pathology U-Phospho met.Hb NAD	Fit	-	-	-	-	DR. Balabhadrasini Vasavi MBBS, CH G-54854								

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 : 57005472
2. Name of the person examined : Pratikumar Panara.
3. Father's Name : Paragbhai Panara.
4. Sex : Male.
5. Residence : Surat, G.H. Jarub.
6. Date of birth, if available : 01-10-1994
7. Name & address of the factory : Jhagadia, - Aceti Industries
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, on right hand 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 29 years.

In my opinion he/she is fit for employment in the Said manufacturing process/operation.

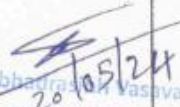
In my opinion he/she is unfit for employment in the said manufacturing process/operation for the reason He/She is referred for further examination to the Certifying Surgeon.

The serial number of previous certificate is

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 :

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.
20-05-2024			 DR. Galbhadra Vasava MBBS, CIH 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.]

AIL/Lic No.15402/2024-25/028

Date : 08.08.2024

To,
The Deputy Director,
Industrial Safety & Health,
2nd Floor, Multi Storied Building,
Near New Court,
Kanbi Vaga, Bharuch.

Subject : Submission of External Safety Audit Report as per IS 14489:2018]

Respected sir,

With reference to the above subject, we aarti Industries Limited (AIL) operates a fully integrated manufacturing set-up of synthetic organic & specialty chemicals at Plot No.756/2A&B, 756/3A&B, 756/4A&B, 756/5A&B, 756/6, 756/7, 756/8, 756/9, 778 & 779, GIDC PB NO- 23, Jhagadia, Dist- Bharuch, Gujarat, 393110

We are submitting the External Safety Audit Report as per IS 14489:2018. As per the Safety Audit is a legal requirement Under Rule 12-C, 68-O and 68-J of The Gujarat Factories Rules, 1963 and Rule 10 of The Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.

Kindly acknowledge & oblige.

Thanking You,

For AARTI INDUSTRIES LIMITED

Authorized Signatory

Dharmendra Kumar

(Factory Manager)

Plot No.756/2A&B, 756/3A&B, 756/4A&B, 756/5A&B, 756/6, 756/7, 756/8, 756/9, 778 & 779,
GIDC PB NO- 23, Jhagadia,
Dist- Bharuch, Gujarat, 393110

Enclosure: Annexure1: External Safety Audit Report (as per IS 14489:2018)
Annexure 2: Compliance Report

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. - 756/4-5-6-7 & 779, GIDC Jhagadia - 393 110, Dist - Bharuch, Gujarat (India).


Phone No. : 9537011611, 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


PARIVESH Screenshot

environmentclearance.nic.in/state/Compliance_report.aspx?Cat_Id=SIA%2fGJ%2fIND2%2f55239%2f2013&type=1

Government SiteMSDSLiteratureGPCBGOV LitAILOCEMSPDFOM/LegislationIMP Folders3M Ash Land ECAll Bookmarks

**PARIVESH**
परिवेश
“Pro Active and Responsive facilitation by Interactive, Virtuous and Environmental Singlewindow Hub”

State Environment Impact Assessment Authority
UserID: [ENV.JADE@AARTI-INDUSTRIES.COM]
Logout



HomeEnvironment ClearanceOnly CRZ ClearanceForest ClearanceWildlife Reference

Please do not enter a

Form for Uploading Compliance Report

Proposal No :SIA/GJ/IND2/55239/2013

Proposal Name :M/s. Aarti Industries Limited (Unit II)

Category :Industrial Projects - 2

MoEF File No. :SIA/GJ/119608/2020

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/IND2/55239/2013	1122202178925773ECCCompliancefinalcompressedUnit-2.pdf	EC Compliance Report (April 2021 to September 2021)	22/11/2021	
2	SIA/GJ/IND2/55239/2013	053020222702252EccomplianceU-II.pdf	EC Compliance Report (October 2021 to March 2022)	30/05/2022	
3	SIA/GJ/IND2/55239/2013	1129202297495138ECCComplianceReports(April'22toSept'22)AartiIndustriesLimited(U-II).pdf.pdf	EC Compliance Report (April 2022 to September 2022)	29/11/2022	
4	SIA/GJ/IND2/55239/2013	0529202318144913AartiIndustriesLimited(U-II)ECCComplianceReport-Oct'22toMarch'23.pdf	EC Compliance Report (October 2022 to March 2023)	29/05/2023	
5	SIA/GJ/IND2/55239/2013	1109202371493099AartiIndustriesLtd(Unit-II)ECCComplianceReportApr'23toSept'23.pdf	EC Compliance Report (April 2023 to September 2023)	09/11/2023	
6	SIA/GJ/IND2/55239/2013	053020242000469U2ECCcomplianceareportforOct-2023toMar-2024pdf.pdf	Aarti Industries Limited Jhagadia UR EC compliance report for October-2023 to March-2024	30/05/2024	

Email Screenshot

