



Ambient Noise Monitoring Report

Annexure-I

Month : June'21

Ambient Noise Monitored by : Environmental Management Cell (EMC)

S.No	Location	Noise level			
		08.06.21	16.06.21	23.06.21	28.06.21
		Morning shift	Afternoon shift	Night shift	Morning shift
1	Technical building	59	62	58	59
2	Cooling Towers	64	65	62	65
3	Main stores	59	58	56	59
4	UB/HRSH (near Boundary wall)	72	71	67	73
5	Capitative Power Plant (CPP)	73	74	67	74
6	Urea plant	68	70	65	69
7	bagging building	63	62	60	65
8	IA/PA plant (Near wall side)	72	74	68	73
9	Near DG set	61	60	59	62
10	Raw water pump house	64	63	58	65

Note: 1. Noise level limits (as per CFO) : Day Time (6AM -10PM) - 75 dB (A)
Night Time (10PM -6AM) - 70 dB (A)

2. Morning shift Time : 6AM - 2PM
3. Afternoon shift Time : 2PM - 10PM
4. Night shift Time : 10PM - 6AM

Signature



Ambient Noise Monitoring Report

Month : July'21

Ambient Noise Monitored by : Environmental Management Cell (EMC)

S.No	Location	Noise level- dB (A)			
		05.07.21	15.07.21	22.07.21	29.07.21
		Morning shift	Afternoon shift	Night shift	Morning shift
1	Technical building	61	60	58	60
2	Cooling Towers	65	64	63	65
3	Main stores	58	59	56	58
4	UB/HRSH (near Boundary wall)	71	72	67	71
5	Capitative Power Plant (CPP)	72	73	66	74
6	Urea plant	68	69	66	67
7	bagging building	62	63	61	62
8	IA/PA plant (Near wall side)	73	73	69	73
9	Near DG set	60	59	58	60
10	Raw water pump house	63	64	61	63

Note: 1. Noise level limits (as per CFO) :
Day Time (6AM -10PM) - 75 dB (A)
Night Time (10PM -6AM) - 70 dB (A)

2. Morning shift Time : 6AM - 2PM
3. Afternoon shift Time : 2PM - 10PM
4. Night shift Time : 10PM - 6AM

Signature



Ambient Noise Monitoring Report

Month : August'21

Ambient Noise Monitored by : Environmental Management Cell (EMC)

Sr No	Location	Noise level- dB (A)			
		04.08.21	13.08.21	20.08.21	27.08.21
		Morning shift	Afternoon shift	Night shift	Morning shift
1	Technical building	61	58	58	58
2	Cooling Towers	63	65	62	66
3	Main stores	58	59	57	58
4	UB/HRSH (near Boundary wall)	72	70	69	73
5	Capitative Power Plant (CPP)	72	73	69	73
6	Urea plant	68	69	67	68
7	bagging building	64	63	62	63
8	IA/PA plant (Near wall side)	73	74	69	73
9	Near DG set	59	60	57	59
10	Raw water pump house	64	65	61	63

Note: 1. Noise level limits (as per CFO) :
Day Time (6AM -10PM) - 75 dB (A)
Night Time (10PM -6AM) - 70 dB (A)

2. Morning shift Time : 6AM - 2PM
3. Afternoon shift Time : 2PM - 10PM
4. Night shift Time : 10PM - 6AM



Ambient Noise Monitoring Report

Month : October'21

Ambient Noise Monitored by : Environmental Management Cell (EMC)

S. No	Location	Noise level- dB (A)			
		05.10.21	13.10.21	21.10.21	28.10.21
		Morning shift	Afternoon shift	Night shift	Morning shift
1	Technical building	58	59	58	59
2	Cooling Towers	65	64	63	65
3	Main stores	58	59	56	58
4	UB/HRSH (near Boundary wall)	62	60	69	72
5	Capitative Power Plant (CPP)	61	62	69	73
6	Urea plant	60	61	67	69
7	bagging building	58	59	58	61
8	IA/PA plant (Near wall side)	72	73	70	73
9	Near DG set	58	59	57	60
10	Raw water pump house	62	63	62	64

Note: 1. Noise level limits (as per CFO) :
Day Time (6AM -10PM) - 75 dB (A)
Night Time (10PM -6AM) - 70 dB (A)

2. Morning shift Time : 6AM - 2PM
3. Afternoon shift Time : 2PM - 10PM
4. Night shift Time : 10PM - 6AM

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Ambient Noise Monitoring Report

Month : November'21

Ambient Noise Monitored by : Environmental Management Cell (EMC)

S. No	Location	Noise level- dB (A)			
		04.11.21	11.11.21	19.11.21	26.11.21
		Morning shift	Afternoon shift	Night shift	Morning shift
1	Technical building	58	58	57	59
2	Cooling Towers	65	68	65	68
3	Main stores	59	58	56	57
4	UB/HRSH (near Boundary wall)	73	72	69	72
5	Capitative Power Plant (CPP)	73	72	69	74
6	Urea plant	67	66	65	68
7	bagging building	60	62	59	64
8	IA/PA plant (Near wall side)	72	74	69	73
9	Near DG set	59	58	56	60
10	Raw water pump house	63	64	62	65

Note: 1. Noise level limits (as per CFO) :
Day Time (6AM -10PM) - 75 dB (A)
Night Time (10PM -6AM) - 70 dB (A)

2. Morning shift Time : 6AM - 2PM
3. Afternoon shift Time : 2PM - 10PM
4. Night shift Time : 10PM - 6AM

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Ambient Noise Monitoring Report

Month : December'21

Ambient Noise Monitored by : Environmental Management Cell (EMC)

S. No	Location	Noise level- dB (A)			
		06.12.21	13.12.21	20.12.21	27.12.21
		Morning shift	Afternoon shift	Night shift	Morning shift
1	Technical building	58	58	56	60
2	Cooling Towers	64	65	63	65
3	Main stores	63	62	58	61
4	UB/HRSH (near Boundary wall)	71	72	69	70
5	Capitative Power Plant (CPP)	73	72	69	74
6	Urea plant	68	68	66	69
7	bagging building	62	61	63	64
8	IA/PA plant (Near wall side)	74	73	70	72
9	Near DG set	60	59	56	61
10	Raw water pump house	63	62	59	62

Note: 1. Noise level limits (as per CFO) :
Day Time (6AM -10PM) - 75 dB (A)
Night Time (10PM -6AM) - 70 dB (A)

2. Morning shift Time : 6AM - 2PM
3. Afternoon shift Time : 2PM - 10PM
4. Night shift Time : 10PM - 6AM

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Treated Effluent Water Quality Monitoring Results

Annexure-II

Month : June'21
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 30.06.2021

TEST RESULTS

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit	Treated Effluent Pump Discharge
1	pH.		6.5-8.5	8.35	8.44	7.59	8.23	8.11
2	Ammonical Nitrogen	mg/l as N	50	0.37	0.53	5	8.9	0.69
3	Free Ammonical Nitrogen	mg/l as N	2	0.04	0.37	0.13	0.8	0.04
4	Total kjeldahl Nitrogen	mg/l as N	75	2.77	4.15	9.68	15.22	2.77
5	Nitrate nitrogen	mg/l as N	10	1.4	1.5	1.63	2.21	1.39
6	Phosphate	mg/l as P	5	1.6	2.94	3.83	2.92	2.68
7	Suspended Solids	mg/l	100	43	48	7	9	34
8	BOD	mg/l	30	12	16	2.4	3.9	15
9	COD	mg/l	250	90	94	36	36	98
10	Oil & Grease	mg/l	10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND	ND

Prjanshu



Treated Effluent Water Quality Monitoring Results

Month : July'21
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 15.07.2021

TEST RESULTS

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit	Treated Effluent Pump Discharge
1	pH.		6.5-8.5	8.42	8.45	7.41	8.41	8.31
2	Ammonical Nitrogen	mg/l as N	50	10.98	27.62	0.8	24.55	8.72
3	Free Ammonical Nitrogen	mg/l as N	2	1.81	1.74	0.012	1.84	0.87
4	Total kjeldahl Nitrogen	mg/l as N	75	13.4	29.7	10.2	32.6	12.4
5	Nitrate nitrogen	mg/l as N	10	1.16	0.86	6.99	3.92	1.16
6	Phosphate	mg/l as P	5	0.8	1.14	0.8	4.07	2.16
7	Suspended Solids	mg/l	100	18	16	6	10	10
8	BOD	mg/l	30	5.2	2.5	4.8	3.8	4.7
9	COD	mg/l	250	44	60	24	28	40
10	Oil & Grease	mg/l	10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 30.07.2021

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit	Treated Effluent Pump Discharge
1	pH.		6.5-8.5	8.48	8.26	7.52	8.4	8.25
2	Ammonical Nitrogen	mg/l as N	50	2.65	20.99	0.06	15.34	20.27
3	Free Ammonical Nitrogen	mg/l as N	2	0.37	1.88	0.001	1.92	1.82
4	Total kjeldahl Nitrogen	mg/l as N	75	6.25	24.1	10.9	23.7	25.3
5	Nitrate nitrogen	mg/l as N	10	1.1	0.75	9.75	5.71	1.12
6	Phosphate	mg/l as P	5	3.34	1.25	4.18	4.2	1.77
7	Suspended Solids	mg/l	100	34	30	9	11	33
8	BOD	mg/l	30	1.5	1.8	2.4	2	1.4
9	COD	mg/l	250	36	24	12	16	40
10	Oil & Grease	mg/l	10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND	ND

Sajwan



Treated Effluent Water Quality Monitoring Results

Month : August'21
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 15.08.2021

TEST RESULTS

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit	Treated Effluent Pump Discharge
1	pH.		6.5-8.5	8.48	8.45	7.39	8.31	8.18
2	Ammonical Nitrogen	mg/l as N	50	12.5	13.1	0.38	14.18	20.6
3	Free Ammonical Nitrogen	mg/l as N	2	1.75	1.74	0.006	1.42	1.64
4	Total kjeldahl Nitrogen	mg/l as N	75	32.31	18.85	14.81	12.12	20.2
5	Nitrate nitrogen	mg/l as N	10	4.01	2.46	8.82	4.39	3.68
6	Phosphate	mg/l as P	5	0.83	1.05	0.58	1.63	0.86
7	Suspended Solids	mg/l	100	26	40	22	22	32
8	BOD	mg/l	30	2.1	2.1	1.8	2.4	2.3
9	COD	mg/l	250	16	24	28	20	32
10	Oil & Grease	mg/l	10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 30.08.2021

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit	Treated Effluent Pump Discharge
1	pH.		6.5-8.5	8.42	8.34	8.43	8.36	8.46
2	Ammonical Nitrogen	mg/l as N	50	14.9	6.1	13.6	12.7	13.1
3	Free Ammonical Nitrogen	mg/l as N	2	1.86	0.61	1.7	1.58	1.83
4	Total kjeldahl Nitrogen	mg/l as N	75	25.58	2.69	27.31	49.82	16.16
5	Nitrate nitrogen	mg/l as N	10	4.35	2.73	7.66	0.54	4.03
6	Phosphate	mg/l as P	5	1.35	4.35	2.58	2.58	0.91
7	Suspended Solids	mg/l	100	23	11	58	28	10
8	BOD	mg/l	30	2.6	1.2	2	1.9	1.1
9	COD	mg/l	250	62	33	31	29	50
10	Oil & Grease	mg/l	10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND	ND

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Treated Effluent Water Quality Monitoring Results

Month : September'21
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 13.09.2021

TEST RESULTS

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit	Treated Effluent Pump Discharge
1	pH.		6.5-8.5	8.4	8.45	7.39	8.35	8.4
2	Ammonical Nitrogen	mg/l as N	50	15.34	1.63	3.39	16.15	1.6
3	Free Ammonical Nitrogen	mg/l as N	2	1.92	0.22	0.05	1.82	0.2
4	Total kjeldahl Nitrogen	mg/l as N	75	24.66	6.72	22.42	26.9	6.72
5	Nitrate nitrogen	mg/l as N	10	2.66	1.22	8.92	3.31	1.59
6	Phosphate	mg/l as P	5	0.96	1.06	1.05	1.15	1
7	Suspended Solids	mg/l	100	27	28	5	31	17
8	BOD	mg/l	30	4.3	3.4	5.2	4.1	4.2
9	COD	mg/l	250	29	16	36	28	29
10	Oil & Grease	mg/l	10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 28.09.2021

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit
1	pH.		6.5-8.5	8.45	7.45	8.04	8.09
2	Ammonical Nitrogen	mg/l as N	50	9.36	5.65	17.03	17.68
3	Free Ammonical Nitrogen	mg/l as N	2	1.24	0.11	1.02	1.15
4	Total kjeldahl Nitrogen	mg/l as N	75	20.17	13.44	25.78	32.5
5	Nitrate nitrogen	mg/l as N	10	2.62	4.92	3.07	5.09
6	Phosphate	mg/l as P	5	0.86	0.81	0.9	1.17
7	Suspended Solids	mg/l	100	20	15	22	21
8	BOD	mg/l	30	6.6	5	5.7	7.4
9	COD	mg/l	250	34	32	42	46
10	Oil & Grease	mg/l	10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND

Pranav



Treated Effluent Water Quality Monitoring Results

Month : October'21
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 12.10.2021

TEST RESULTS

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit	Treated Effluent Pump Discharge
1	pH.		6.5-8.5	8.45	8.4	7.62	8.4	8.43
2	Ammonical Nitrogen	mg/l as N	50	0.45	0.49	0.13	0.16	0.51
3	Free Ammonical Nitrogen	mg/l as N	2	0.06	0.06	Nil	0.02	0.07
4	Total kjeldahl Nitrogen	mg/l as N	75	7.84	6.72	8.97	10.08	7.1
5	Nitrate nitrogen	mg/l as N	10	2.24	2.16	4.09	4.98	2.11
6	Phosphate	mg/l as P	5	2.58	2.24	2.18	2.37	2.18
7	Suspended Solids	mg/l	100	8	26	5	9	28
8	BOD	mg/l	30	6.4	3.8	3.2	3.2	4.2
9	COD	mg/l	250	38	27	24	23	26
10	Oil & Grease	mg/l	10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 27.10.2021

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit	Treated Effluent Pump Discharge
1	pH.		6.5-8.5	8.45	7.57	7.53	7.76	7.6
2	Ammonical Nitrogen	mg/l as N	50	0.37	3.16	3.36	3.26	3.16
3	Free Ammonical Nitrogen	mg/l as N	2	0.05	0.08	0.08	0.11	0.08
4	Total kjeldahl Nitrogen	mg/l as N	75	6.72	8.97	7.84	11.21	8.97
5	Nitrate nitrogen	mg/l as N	10	1.83	2.33	1.55	4.33	2.24
6	Phosphate	mg/l as P	5	2.1	2.86	1.82	3.29	2.7
7	Suspended Solids	mg/l	100	10	28	8	14	29
8	BOD	mg/l	30	9.5	5.2	6.1	4.2	5.4
9	COD	mg/l	250	62	34	37	24	34
10	Oil & Grease	mg/l	10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND	ND

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Treated Effluent Water Quality Monitoring Results

Month : November'21
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 14.11.2021

TEST RESULTS

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit	Treated Effluent Pump Discharge
1	pH.		6.5-8.5	8.4	7.97	7.63	8.4	7.79
2	Ammonical Nitrogen	mg/l as N	50	7.83	6.14	0.16	4.94	5.81
3	Free Ammonical Nitrogen	mg/l as N	2	0.98	0.3	0	0.65	0.2
4	Total kjeldahl Nitrogen	mg/l as N	75	15.69	12.34	7.85	12.34	11.21
5	Nitrate nitrogen	mg/l as N	10	1.89	3.29	5.9	4.57	3.18
6	Phosphate	mg/l as P	5	3.45	3.75	1.05	3.85	3.57
7	Suspended Solids	mg/l	100	32	14	4	9	22
8	BOD	mg/l	30	7.4	5.2	3.5	4.2	5.1
9	COD	mg/l	250	59	28	15	21	27
10	Oil & Grease	mg/l	10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 28.11.2021

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit	Treated Effluent Pump Discharge
1	pH.		6.5-8.5	8.32	7.88	7.44	8.45	7.95
2	Ammonical Nitrogen	mg/l as N	50	2.26	19.54	1.98	1.04	17.28
3	Free Ammonical Nitrogen	mg/l as N	2	0.23	0.88	0.03	0.14	0.81
4	Total kjeldahl Nitrogen	mg/l as N	75	7.52	23.65	7.52	8.6	21.51
5	Nitrate nitrogen	mg/l as N	10	2.18	1.59	5.5	6	1.5
6	Phosphate	mg/l as P	5	1.75	0.89	0.36	1.69	1.23
7	Suspended Solids	mg/l	100	35	18	5	27	15
8	BOD	mg/l	30	6.6	5.4	3.6	5.6	6
9	COD	mg/l	250	45	31	18	32	35
10	Oil & Grease	mg/l	10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND	ND

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Treated Effluent Water Quality Monitoring Results

Month : December'21
Nature of Sampling : Treated Effluent Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection : 02.12.2021

TEST RESULTS

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit	Treated Effluent Pump Discharge
1	pH.		6.5-8.5	8.11	8	7.41	7.96	7.85
2	Ammonical Nitrogen	mg/l as N	50	20.02	32.3	1.97	2.71	29.88
3	Free Ammonical Nitrogen	mg/l as N	2	1.3	1.62	0.03	0.13	1.2
4	Total kjeldahl Nitrogen	mg/l as N	75	32.5	42.5	11.21	12.33	38.11
5	Nitrate nitrogen	mg/l as N	10	1.95	2.22	5.84	6.33	1.87
6	Phosphate	mg/l as P	5	2.65	2.08	1	3.51	1.77
7	Suspended Solids	mg/l	100	28	20	5	24	17
8	BOD	mg/l	30	8.7	6.4	4.2	6.1	6.6
9	COD	mg/l	250	48	35	20	34	37
10	Oil & Grease	mg/l	10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND	ND

Date of Sample Collection: : 15.12.2021

S.No.	Parameters	Unit	Range	Guard Pond 1	Guard Pond 2	Material Gate Trench	Strom water Pit	Treated Effluent Pump Discharge
1	pH.		6.5-8.5	8.32	7.89	7.53	8.23	7.97
2	Ammonical Nitrogen	mg/l as N	50	17.68	11.54	0.61	0.82	11.14
3	Free Ammonical Nitrogen	mg/l as N	2	1.88	0.52	0.01	0.07	0.55
4	Total kjeldahl Nitrogen	mg/l as N	75	7.52	27.95	12.9	20.43	19.35
5	Nitrate nitrogen	mg/l as N	10	1.24	1.15	2.59	5.6	1.17
6	Phosphate	mg/l as P	5	1.27	1.66	0.57	3.43	1.71
7	Suspended Solids	mg/l	100	29	25	4	29	26
8	BOD	mg/l	30	8.2	6.9	4.2	8	7.1
9	COD	mg/l	250	44	34	22	40	36
10	Oil & Grease	mg/l	10	<10	<10	<10	<10	<10
11	Vanadium	mg/l as V	0.2	ND	ND	ND	ND	ND

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Ground Water Quality Monitoring Results

Annexure-III

Month : September'2021
Nature of Sampling : Ground Water
Sample Collected and tested by : In- House Laboratory
Date of Sample Collection :- : 28.09.2021

TEST RESULTS

S.No.	Parameter	Limiting Standards	Township Premises	RFCL Guest House
1	Temperature	30 degC	29	28.5
2	pH	6.5-8.5	6.82	7.9
3	Conductivity	< 2600 uS/cm	805	603
4	BOD	< 2.0 mg/L	0.9	0.5
5	Nitrate as N	< 45 mg/L	0.76	0.51
6	Chloride	<250 mg/L	62.74	39.21
7	Ammonia as N	<0.5 mg/L	0.04	0.04
8	Total coliform (MNP/100ml)	< 50	NT	NT

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Ground Water Quality Monitoring Results

Month : October'2021
Nature of Sampling : Ground Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection :- : 12.10.2021

TEST RESULTS

S.No.	Parameter	Limiting Standards	Township Premises	RFCL Guest House	Near Guard Pond
1	Temperature	30 degC	28.5	28.5	29.5
2	pH	6.5-8.5	7.66	7.1	7.65
3	Conductivity	< 2600 uS/cm	375	1167	1766
4	BOD	< 2.0 mg/L	1.5	0.7	1.8
5	Nitrate as N	< 45 mg/L	0.52	2.32	0.72
6	Chloride	<250 mg/L	62.13	78.64	85.43
7	Ammonia as N	<0.5 mg/L	0.19	0.07	0.22
8	Total coliform (MNP/100ml)	< 50	NT	NT	NT
9	Dissolved Oxygen	>6 mg/L	6.06	6.29	6.02

Signature



Ground Water Quality Monitoring Results

Month : November'2021
Nature of Sampling : Ground Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection :- : 15.11.2021

TEST RESULTS

S.No.	Parameters	Limiting Standards	RFCL Guest House	Central Workshop	Near Guard Pond
1	Temperature	30 degC	28.5	28.5	29.5
2	pH	6.5-8.5	8.06	8.29	6.85
3	Conductivity	< 2600 uS/cm	835	490	1775
4	BOD	< 2.0 mg/L	0.7	0.9	1.3
5	Nitrate as N	< 45 mg/L	1.47	0.81	2.58
6	Chloride	<250 mg/L	45.34	38.5	66.56
7	Ammonia as N	<0.5 mg/L	0.04	0.08	0.25
8	Total coliform (MNP/100ml)	< 50	NT	NT	NT
9	Dissolved Oxygen	>6 mg/L	6.24	6.14	6.11

Ryan



Ground Water Quality Monitoring Results

Month : December '2021
Nature of Sampling : Ground Water
Sample collected and tested by : In- House Laboratory
Date of Sample Collection :- : 02.12.2021, 15.12.2021 & 22.12.2021

TEST RESULTS

S.No.	Parameters	Limiting Standards	Factory Premises					Nearby Villages		
			Township Premises	RFCL Guest House	Near Guard Pond	Central Workshop	Technical Building	Veerlapalli	Gouthami Nagar	Elkapalli
			15.12.21	02.12.21	02.12.21	02.12.21	15.12.21	22.12.21	22.12.21	22.12.21
1	Temperature	30 degC	27.5	28	29.5	29	28.6	27	28	27.5
2	pH	6.5-8.5	8.26	7.71	6.91	8.45	7.7	7.24	7.45	6.95
3	Conductivity	< 2600 uS/cm	498	658	1805	475	528	1636	732	1212
4	BOD	< 2.0 mg/L	0.8	1.0	1.5	0.8	0.7	1.6	1.0	1.2
5	Nitrate as N	< 45 mg/L	0.3	1.5	2.11	1.44	1.8	17.23	0.38	5.00
6	Chloride	<250 mg/L	46.05	42.72	81.55	38.83	40.34	100.97	60.19	108.74
7	Ammonia as N	<0.5 mg/L	0.07	0.03	0.2	0.04	0.12	0.1	0.08	0.13
8	Total coliform (MNP/100ml)	< 50	NT	NT	NT	NT	NT	NT	NT	NT
9	Dissolved Oxygen	>6 mg/L	6.31	6.15	6.1	6.24	6.1	6.1	6.25	6.15

Syan



Ambient Air Quality Monitoring Results

Annexure-IV

Month : December'2021
Nature of Sampling : Ambient Air
Sample collected and tested by : In- House Laboratory

TEST RESULTS

Location : Technical Building

S.No.	Parameters	Unit	Permissible limits (NAAQS)	08.12.21	14.12.21	21.12.21	28.12.21
1	PM10	$\mu\text{g}/\text{m}^3$	100	83.7	90.8	80.7	85.6
2	PM2.5	$\mu\text{g}/\text{m}^3$	60	46.2	41.6	43.3	53.2
3	SOx	$\mu\text{g}/\text{m}^3$	80	13.6	12	14.1	16.9
4	NOx	$\mu\text{g}/\text{m}^3$	80	9.9	11.6	10.9	14.7
5	NH3	$\mu\text{g}/\text{m}^3$	400	19.7	36	26.1	14.2

Location : Material Gate

S.No.	Parameters	Unit	Permissible limits (NAAQS)	08.12.21	14.12.21	21.12.21	28.12.21
1	PM10	$\mu\text{g}/\text{m}^3$	100	94.5	87.2	83.1	92.7
2	PM2.5	$\mu\text{g}/\text{m}^3$	60	54.6	46.2	46.9	52.1
3	SOx	$\mu\text{g}/\text{m}^3$	80	10.8	9.6	10.8	13.6
4	NOx	$\mu\text{g}/\text{m}^3$	80	8.8	9	9.1	12.3
5	NH3	$\mu\text{g}/\text{m}^3$	400	16.6	15.5	15.8	12.5

By 



Stack Emmission Monitoring Results

Annexure-V

Month : December'21
Nature of Sampling : Stack Emmission
Sample collected and tested by : In- House Laboratory

TEST RESULTS

Location : Primary Reformer Stack

S.No	Parameters	Permissible limits	03.12.2021	10.12.21	20.12.21	29.12.21
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm ³	3.6	3.4	3.8	3.6
3	NOx	400 mg/Nm ³	145	142	149	142

Location : Utility Boiler Stack

S.No	Parameters	Permissible limits	03.12.2021	10.12.21	20.12.21	29.12.21
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm ³	3.8	3.2	4.1	3.8
3	NOx	400 mg/Nm ³	202	187	214	78

Location : HRSG Stack

S.No	Parameters	Permissible limits	03.12.2021	11.12.21	20.12.21	29.12.21
1	SPM	10 mg/Nm ³	<5.0	<5.0	<5.0	<5.0
2	SOx	50 mg/Nm ³	3	3.8	3.2	4
3	NOx	400 mg/Nm ³	225	230	220	223

Location : Prilling Tower

S.No	Parameters	Permissible limits	06.12.2021	13.12.21	21.12.21	27.12.21
1	Particulate Matter	50 mg/Nm ³	35.6	36.7	35.9	37.4
2	NH3	150 mg/Nm ³	110.2	112.5	114.5	112.8

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