

## Periodical Monitoring Report

### Ambient Air Monitoring Report

Sampling Locations- Near Bromine, Plant/Near ETP.

Sr. No.	Parameters	Unit (SI)	Specification/ SPCB norms.	Results			
				Jul-17	Aug-17	Sep-17	Avg.
1	PM <sub>10</sub>	µg/m <sup>3</sup>	100	61	64	59	61.33
2	PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	17	20	23	20.00
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	80	7.5	8.1	9.8	8.47
4	Oxides of Nitrogen (NO <sub>x</sub> )	µg/m <sup>3</sup>	80	13.5	15.9	13.8	14.40
5	Br <sub>2</sub>	ppm	0.1	N.D.	N.D.	N.D.	N.D.
6	Cl <sub>2</sub>	µg/m <sup>3</sup>	100	2.20	3.10	3.50	2.93

N.D.- Not Detectable

Sampling Locations-Near D.G.Set/R.O.Plant

Sr. No.	Parameters	Unit (SI)	Specification/ SPCB norms.	Results			
				Jul-17	Aug-17	Sep-17	Avg.
1	PM <sub>10</sub>	µg/m <sup>3</sup>	100	59	59	46	54.67
2	PM <sub>2.5</sub>	µg/m <sup>3</sup>	60	19	19	20	19.33
3	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	80	8.30	8.30	7.40	8.00
4	Oxides of Nitrogen (NO <sub>x</sub> )	µg/m <sup>3</sup>	80	12.30	12.30	15.70	13.43
5	Br <sub>2</sub>	ppm	0.1	N.D.	N.D.	N.D.	N.D.
6	Cl <sub>2</sub>	µg/m <sup>3</sup>	100	2.50	2.50	2.80	2.60

N.D.- Not Detectable

**Stack Air Monitoring Report**

Sampling Locations- D.G.Set.

Sr. No.	Parameters	Unit (SI)	Specification/ SPCB norms.	Results			
				Jul-17	Aug-17	Sep-17	Avg.
1	Particulate Matter	mg/Nm <sup>3</sup>	150	54	57	49	53.33
2	Sulphur Dioxide (SO <sub>2</sub> )	ppm	100	20.36	18.03	22.14	20.18
3	Oxides of Nitrogen (NO <sub>x</sub> )	ppm	50	13.42	12.68	14.98	13.69

N.D.- Not Detectable

Sampling Locations- Power Plant.

Sr. No.	Parameters	Unit (SI)	Specification/ SPCB norms.	Results			
				Jul-17	Aug-17	Sep-17	Avg.
1	Particulate Matter	mg/Nm <sup>3</sup>	100	25	36	38	33.00
2	Sulphur Dioxide (SO <sub>2</sub> )	ppm	100	25.86	23.33	21.6	23.60
3	Oxides of Nitrogen (NO <sub>x</sub> )	ppm	50	11.51	10.84	11.8	11.38

N.D.- Not Detectable

Sampling Locations- Bromine Plant Scrubber.

Sr. No.	Parameters	Unit (SI)	Specification/ SPCB norms.	Results			
				Jul-17	Aug-17	Sep-17	Avg.
1	HBr	mg/Nm <sup>3</sup>	5	N.D.	N.D.	N.D.	N.D.
2	Br <sub>2</sub>	mg/Nm <sup>3</sup>	N.A.	N.D.	N.D.	N.D.	N.D.

N.D.- Not Detectable

# Archean Chemical Industries Private Limited



Sampling Locations- Bromine Plant Bottling Scrubber.

Sr. No.	Parameters	Unit (SI)	Specification/ SPCB norms.	Results			
				Jul-17	Aug-17	Sep-17	Avg.
1	HBr	mg/Nm <sup>3</sup>	5	N.D.	N.D.	N.D.	N.D.

N.D.- Not Detectable

Sampling Locations- Chlorine Charging Station.

Sr. No.	Parameters	Unit (SI)	Specification/ SPCB norms.	Results			
				Jul-17	Aug-17	Sep-17	Avg.
1	HBr	mg/Nm <sup>3</sup>	5	N.D.	N.D.	N.D.	N.D.

N.D.- Not Detectable

## Effluent Analysis and Monitoring Report

Sampling Locations- ETP Outlet.

Sr. No.	Parameters	Unit (SI)	Specification/ SPCB norms.	Results			
				Jul-17	Aug-17	Sep-17	Avg.
1	pH		6.5-8.5	6.74	6.67	6.74	6.72
2	Temperature	<sup>o</sup> C	40	27	28	28	27.67
3	Colour	Pt-CO	100	5	5	5	5.00
4	Suspended solids	mg./L	100	65	19	11	31.67
5	Oil & grease	mg./L	10	<1.0	<1.0	<1.0	<1.0
6	Ammonical nitrogen	mg./L	50	<1.5	<1.5	<1.5	<1.5

Sampling Locations- STP Outlet.

Sr. No.	Parameters	Unit (SI)	Specification/ SPCB norms.	Results			
				Jul-17	Aug-17	Sep-17	Avg.
1	pH		6.5-8.5	7.35	7.58	6.67	7.20
2	Suspended solids	mg./L	30	21	12	14	15.67
3	BOD	mg./L	20	6	11	11	9.33
4	Oil & grease	mg./L	N.A.	<1.0	<1.0	<1.0	<1.0
5	Ammonical nitrogen	mg./L	0.5 (Minimum)	1.33	0.89	1.33	1.18

**Noise Level Monitoring Report**

Sr. No.	Locations	Unit (SI)	Specification/SPCB norms.	Results ( Day Time Monitoring)			
				Jul-17	Aug-17	Sep-17	Avg.
1	Near Power Plant	dBA	Day Time- 75dBA, Night Time-75dBA	69.9	68.2	68.7	68.93
2	Near Bromine Plant	dBA	Day Time- 75dBA, Night Time-75dBA	68.7	67.4	64.3	66.80
3	Near R.O/D.M. Plant	dBA	Day Time- 75dBA, Night Time-75dBA	68.8	71.2	63.4	67.80
4	Near ETP	dBA	Day Time- 75dBA, Night Time-75dBA	64.7	66.8	62.7	64.73
5	ADM Office	dBA	Day Time- 75dBA, Night Time-75dBA	60.1	64.3	60.0	61.47

Note : Sampling, monitoring and analysis conducted by M/S. Kadam Environmental Consultants.

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