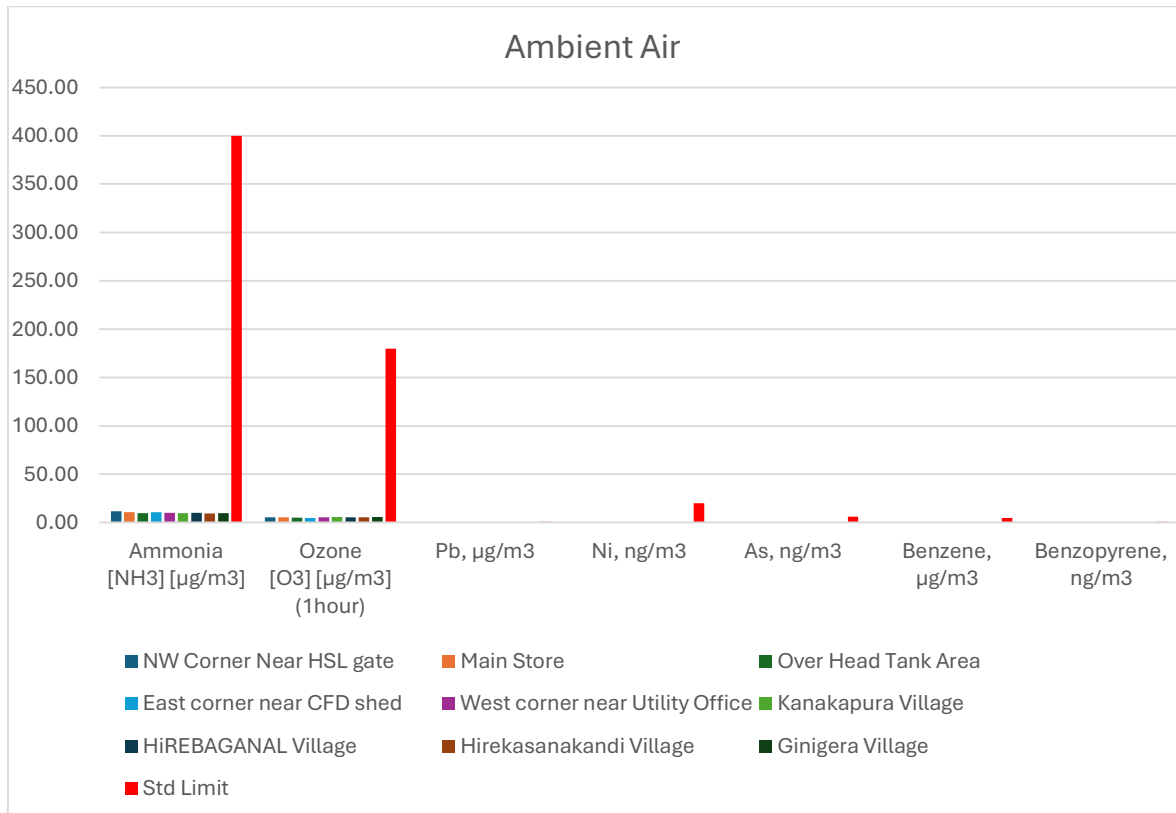
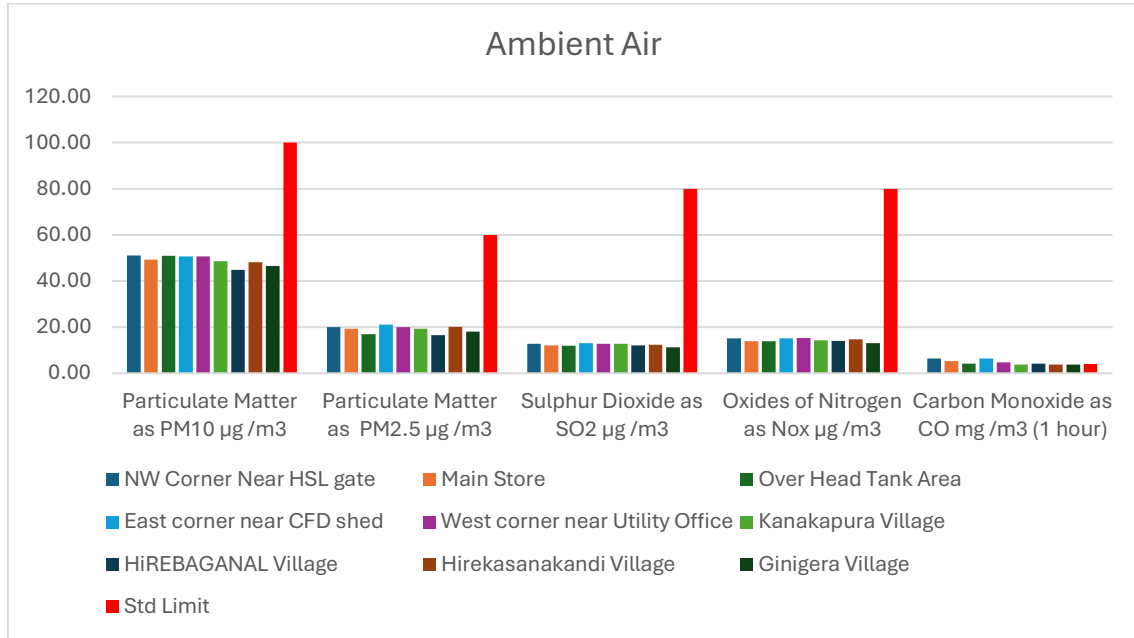


Annexure -4

Half yearly average Environmental quality monitoring data

Ambient air quality



**MUKAND SUMI SPECIAL STEEL LIMITED**

**NW Corner Near HSL gate**

<b>Parameter/Month</b>	<b>Apr-25</b>	<b>May-25</b>	<b>Jun-25</b>	<b>Jul-25</b>	<b>Aug-25</b>	<b>Sep-25</b>
Particulate Matter as PM10 µg /m3	62.88	49.63	51.25	21.50	14.08	15.81
Particulate Matter as PM2.5 µg /m3	27.68	18.50	51.00	45.50	45.88	51.25
Sulphur Dioxide as SO2 µg /m3	13.88	14.29	18.50	16.50	18.25	21.50
Oxides of Nitrogen as Nox µg /m3	16.33	16.26	14.24	11.53	10.06	14.08
Carbon Monoxide as CO mg /m3	0.29	0.19	16.15	13.29	11.44	15.81
Ammonia [NH3] [µg/m3]	11.46	15.09	9.03	9.03	12.10	15.59
Ozone [O3] [µg/m3]	8.85	13.14	7.78	7.78	10.73	13.60

**Main Store area**

<b>Parameter/Month</b>	<b>Apr-25</b>	<b>May-25</b>	<b>Jun-25</b>	<b>Jul-25</b>	<b>Aug-25</b>	<b>Sep-25</b>
Particulate Matter as PM10 µg /m3	59.50	47.75	50.38	49.63	48.75	49.63
Particulate Matter as PM2.5 µg /m3	22.38	20.50	22.50	18.50	17.50	20.50
Sulphur Dioxide as SO2 µg /m3	13.70	13.15	13.70	14.29	11.18	13.75
Oxides of Nitrogen as Nox µg /m3	15.60	15.15	15.60	16.26	12.55	16.08
Carbon Monoxide as CO mg /m3	0.14	0.18	9.40	9.40	13.58	12.49
Ammonia [NH3] [µg/m3]	11.21	14.80	8.06	8.06	11.15	10.09
Ozone [O3] [µg/m3]	9.18	12.85	0.13	0.13	0.24	0.24

**South corner near Overhead tank**

<b>Parameter/Month</b>	<b>Apr-25</b>	<b>May-25</b>	<b>Jun-25</b>	<b>Jul-25</b>	<b>Aug-25</b>	<b>Sep-25</b>
Particulate Matter as PM10 µg /m3	62.63	45.50	42.00	52.00	51.13	54.38
Particulate Matter as PM2.5 µg /m3	22.88	16.50	17.00	18.75	20.63	24.50

**MUKAND SUMI SPECIAL STEEL LIMITED**

Sulphur Dioxide as SO <sub>2</sub> µg /m <sup>3</sup>	15.26	11.53	10.20	11.93	9.18	14.30
Oxides of Nitrogen as Nox µg /m <sup>3</sup>	17.44	13.29	12.80	13.95	10.66	17.03
Carbon Monoxide as CO mg /m <sup>3</sup>	0.26	0.13	8.30	10.45	10.96	12.73
Ammonia [NH <sub>3</sub> ] [µg/m <sup>3</sup> ]	10.47	14.66	7.40	8.96	9.04	10.61
Ozone [O <sub>3</sub> ] [µg/m <sup>3</sup> ]	8.43	12.59	0.12	0.18	0.21	0.17

**East corner near CFD shed**

Parameter/Month	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
Particulate Matter as PM <sub>10</sub> µg /m <sup>3</sup>	60.00	51.13	53.63	47.00	48.25	54.50
Particulate Matter as PM <sub>2.5</sub> µg /m <sup>3</sup>	22.00	22.25	24.25	16.50	16.75	24.25
Sulphur Dioxide as SO <sub>2</sub> µg /m <sup>3</sup>	14.14	10.73	10.78	12.85	9.73	15.41
Oxides of Nitrogen as Nox µg /m <sup>3</sup>	15.99	11.71	11.96	14.94	11.70	18.38
Carbon Monoxide as CO mg /m <sup>3</sup>	0.26	0.14	9.99	9.99	10.98	11.61
Ammonia [NH <sub>3</sub> ] [µg/m <sup>3</sup> ]	10.13	13.18	8.89	8.89	8.38	9.48
Ozone [O <sub>3</sub> ] [µg/m <sup>3</sup> ]	8.19	11.04	0.20	0.20	0.20	0.13

**West corner near Utility Office**

Parameter/Month	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
Particulate Matter as PM <sub>10</sub> µg /m <sup>3</sup>	56.50	46.38	51.00	47.75	46.00	51.75
Particulate Matter as PM <sub>2.5</sub> µg /m <sup>3</sup>	21.63	18.75	19.88	20.50	20.13	23.38
Sulphur Dioxide as SO <sub>2</sub> µg /m <sup>3</sup>	11.98	11.93	11.93	13.15	10.89	15.83
Oxides of Nitrogen as Nox µg /m <sup>3</sup>	13.93	13.95	14.04	15.15	12.13	18.73
Carbon Monoxide as CO mg /m <sup>3</sup>	0.34	0.13	10.35	10.35	12.35	15.71

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Ammonia [NH3] [µg/m3]	10.41	15.83	9.09	9.09	9.90	13.88
Ozone [O3] [µg/m3]	8.39	13.75	0.15	0.15	0.17	0.13

**Kanakapura Village**

Parameter/Month	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
Particulate Matter as PM10 µg /m3	56.38	46.13	52.00	51.00	50.00	50.50
Particulate Matter as PM2.5 µg /m3	26.63	16.50	18.75	13.00	18.50	20.63
Sulphur Dioxide as SO2 µg /m3	16.96	14.11	11.93	9.00	8.75	10.64
Oxides of Nitrogen as Nox µg /m3	19.39	16.08	13.95	11.00	9.96	11.78
Carbon Monoxide as CO mg /m3	0.26	0.13	10.54	5.00	10.76	9.03
Ammonia [NH3] [µg/m3]	10.35	16.61	9.15	6.00	8.88	7.78
Ozone [O3] [µg/m3]	8.59	14.61	0.14	0.10	0.18	0.20

**Hirebaganal Village**

Parameter/Month	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25
Particulate Matter as PM10 µg /m3	51.88	47.75	44.13	41.00	43.88	45.50
Particulate Matter as PM2.5 µg /m3	21.50	18.50	14.50	12.00	17.75	16.50
Sulphur Dioxide as SO2 µg /m3	15.14	13.38	12.74	11.00	9.66	11.53
Oxides of Nitrogen as Nox µg /m3	17.35	15.43	14.61	12.00	11.25	13.29
Carbon Monoxide as CO mg /m3	0.25	0.12	10.88	9.00	11.00	9.99
Ammonia [NH3] [µg/m3]	10.30	15.74	9.60	7.00	9.80	8.89
Ozone [O3] [µg/m3]	8.54	13.83	0.18	0.18	0.18	0.20

**MUKAND SUMI SPECIAL STEEL LIMITED****Hirekasanakandi Village**

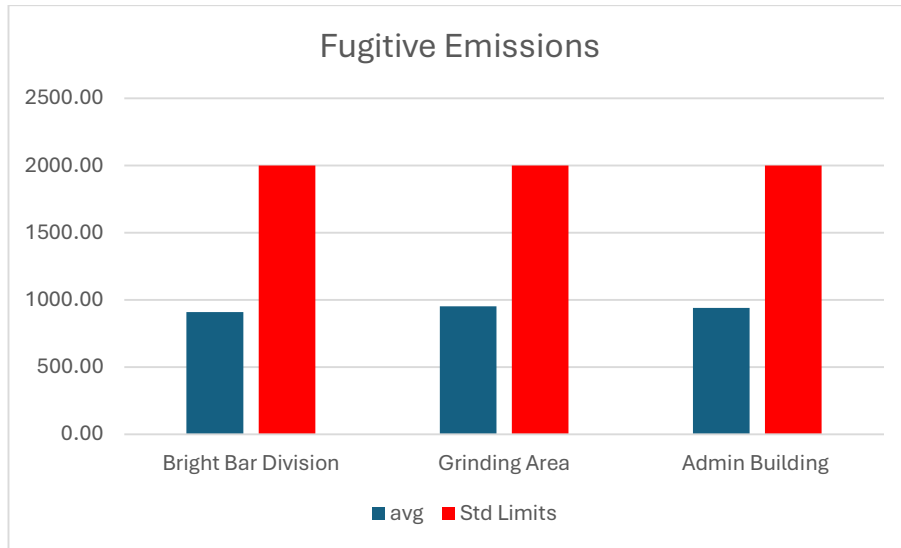
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Particulate Matter as PM10 µg /m3	54.50	46.13	47.38	42.38	45.75	49.50
Particulate Matter as PM2.5 µg /m3	24.25	16.50	18.50	17.50	13.63	24.00
Sulphur Dioxide as SO2 µg /m3	15.38	14.11	12.60	11.60	8.94	11.81
Oxides of Nitrogen as Nox µg /m3	18.38	16.08	14.55	12.55	9.99	13.93
Carbon Monoxide as CO mg /m3	0.26	0.12	10.86	9.86	11.86	9.40
Ammonia [NH3] [µg/m3]	10.08	15.35	9.69	8.69	10.31	8.06
Ozone [O3] [µg/m3]	8.23	13.26	0.19	0.18	0.15	0.13

**Ginigera Village**

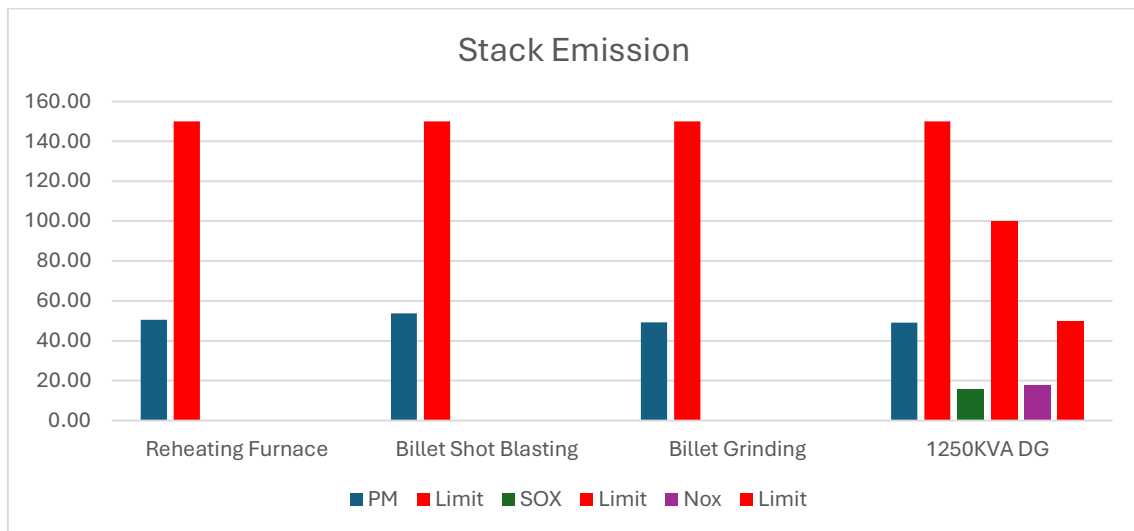
<b>Parameter/Month</b>	<b>Apr-25</b>	<b>May-25</b>	<b>Jun-25</b>	<b>Jul-25</b>	<b>Aug-25</b>	<b>Sep-25</b>
Particulate Matter as PM10 µg /m3	51.00	43.13	50.50	51.50	42.75	50.38
Particulate Matter as PM2.5 µg /m3	22.00	16.50	20.63	22.63	14.25	20.00
Sulphur Dioxide as SO2 µg /m3	16.08	14.65	10.64	11.64	9.89	8.89
Oxides of Nitrogen as Nox µg /m3	18.26	16.60	11.78	12.78	10.43	10.30
Carbon Monoxide as CO mg /m3	0.22	0.19	10.51	13.51	12.94	9.03
Ammonia [NH3] [µg/m3]	10.35	16.60	9.28	8.28	11.90	7.78
Ozone [O3] [µg/m3]	8.28	14.61	0.19	0.14	0.16	0.20

**MUKAND SUMI SPECIAL STEEL LIMITED**

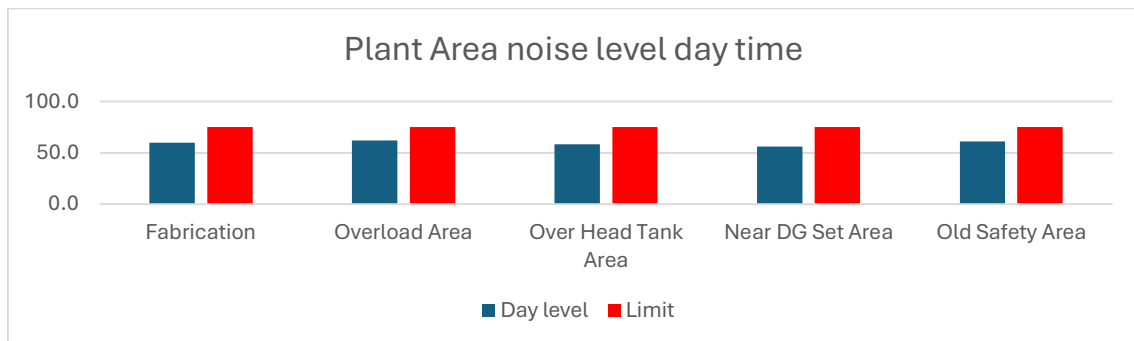
**Fugitive Emissions**



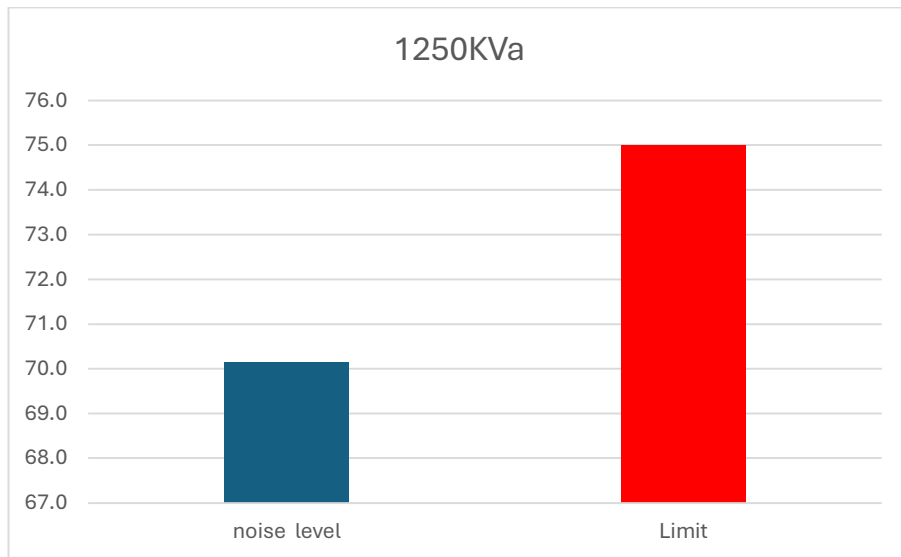
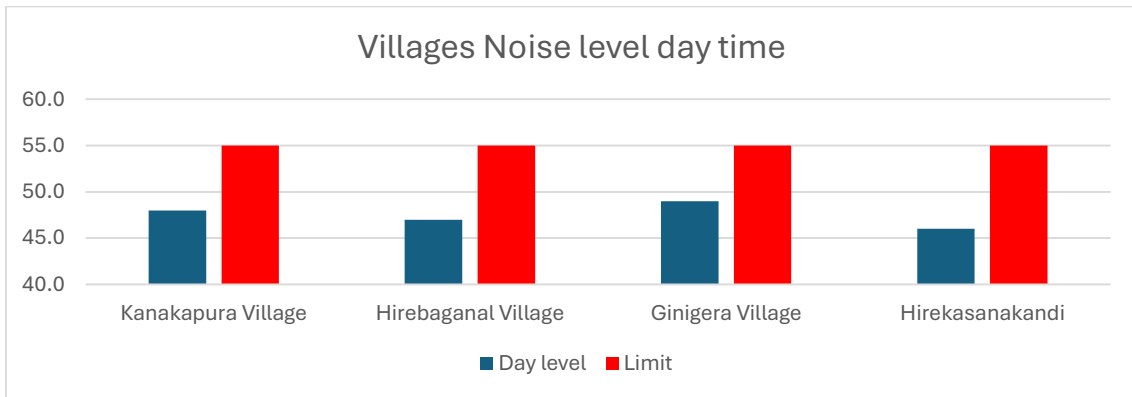
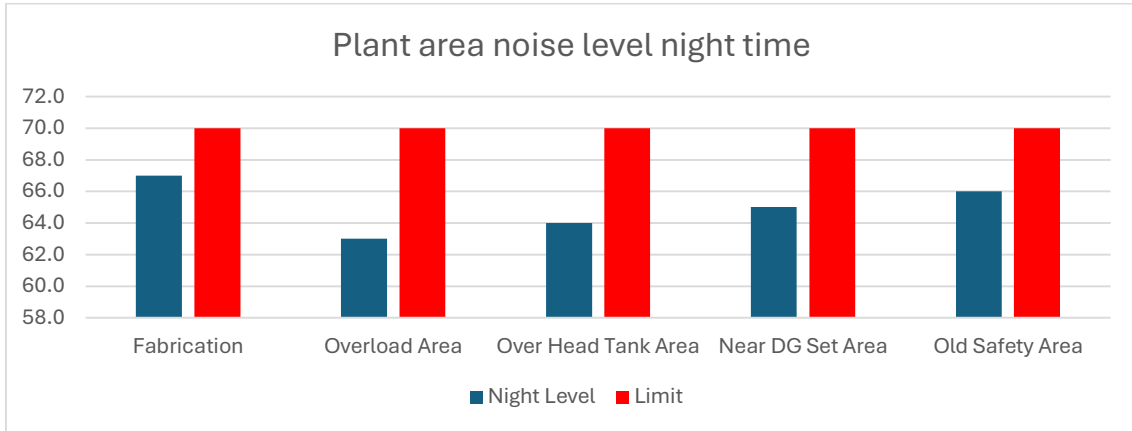
**Stack Emissions**



**Noise Monitoring**



**MUKAND SUMI SPECIAL STEEL LIMITED**



**MUKAND SUMI SPECIAL STEEL LIMITED****STP Treated wastewater**

<b>SL no</b>	<b>Parameter</b>	<b>UOM</b>	<b>Result</b>	<b>Limits</b>
1	pH	-	7.26	6.5-8.5
2	Total Suspended Solids	mg/l	7.33	<10
3	Biological Oxygen Demand (BOD) at 27°C for 3 days	mg/l	7.17	<10
4	Chemical Oxygen Demand (COD)	mg/l	39.98	<50
5	Oil & Grease	mg/l	7.17	--
6	Phosphate	mg/l	0.46	--

**MUKAND SUMI SPECIAL STEEL LIMITED**

**Ground Water**

SL no	Parameter	UOM	Kanakapura village	Hirebaganal Village	Giniger a Village	Hirekasanakandi Village
1	Colour	Hazen	<5	<5	<5	<5
2	pH	-	7.6	7.5	7.5	7.7
3	Turbidity	NTU	BDL (<0.5)	1.6	BDL (<0.5)	1.4
4	Conductivity	µmhos/cm	1582.0	1046.3	1880.0	1073.3
5	Total Dissolved Solids	mg/l	1091.3	722.0	1297.0	740.7
6	Total Alkalinity as CaCO3	mg/l	364.5	294.4	313.1	314.4
7	Total Hardness as CaCO3	mg/l	490.5	290.0	614.5	267.6
8	Calcium as Ca	mg/l	105.2	92.4	161.5	68.8
9	Magnesium as Mg	mg/l	55.3	14.3	51.2	23.2
10	Sodium as Na	mg/l	24.8	104.2	153.8	124.0
11	Potassium as K	mg/l	3.0	3.0	2.0	3.0
12	Iron as Fe	mg/l	0.2	0.1	0.1	0.1
13	Chlorides as Cl	mg/l	208.6	113.3	372.2	148.4
14	Sulphates as SO4	mg/l	18.8	96.0	153.2	96.2
15	Nitrates as NO3	mg/l	15.2	7.2	16.6	7.3
16	Fluoride as F	mg/l	1.6	0.5	1.6	0.5
17	Boron as B	mg/l	0.2	0.2	0.2	0.2
18	Total Suspended Solids	mg/l	BDL(<2)	BDL(<2)	BDL(<2)	BDL(<2)
20	Taste	--	Ag	Ag	Ag	Ag
21	Odour	--	Ag	Ag	Ag	Ag
22	Phenolic Compounds (as C6H5OH)	mg/l	ND	ND	ND	ND
23	Cyanide as CN	mg/l	0.1	0.0	0.1	0.1
24	Chromium as Cr	mg/l	0.0	0.2	0.0	0.0
25	Copper as Cu	mg/l	0.0	0.0	0.0	0.0
26	Manganese as Mn	mg/l	0.1	0.0	0.1	0.1
27	Lead as Pb	mg/l	0.0	0.1	0.1	0.0
28	Zinc as Zn	mg/l	0.0	0.0	0.0	0.0
29	Nickel as Ni	mg/l	ND	ND	ND	ND
30	Aluminum as Al	mg/l	ND	ND	ND	ND
31	Mercury as Hg	mg/l	ND	ND	ND	ND
32	Total Coliform	MPN/100 ml	Absent	Absent	Absent	Absent