Shivalik Solid Waste Management Limited

SSWML

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101

CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@tatvaglobal.com

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/AA/01	**Date :11.06.16**	**Page No.1/1**

Name of Industry	**Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited**
Sampling Location	CA1 TSDF project Site
Sampling Protocol	CPCB Guidelines & IS 5182 P-14 2000

S No.	Date	PM2.5 ug/m³	PM10 ug/m³	NO_2 ug/m³	SO_2 ug/m³	NH_3 ug/m³	O_3 ug/m³	CO mg/m³
1	**5.3.16**	41.97	87.14	25.93	25.94	5.71	5.00	BDL (DL 1.45 mg/m³)
2	**6.3.16**	34.55	73.18	27.31	26.84	4.78	6.20	BDL
3	**12.3.16**	29.22	82.29	28.99	27.53	7.57	6.81	BDL
4	**13.3.16**	43.98	84.29	25.19	25.43	5.71	5.30	BDL
5	**19.3.16**	29.87	82.28	20.61	26.54	7.57	5.73	BDL
6	**20.3.16**	41.32	74.60	27.57	25.12	3.85	5.47	BDL
7	**26.3.16**	32.58	82.51	28.50	28.25	11.29	5.59	BDL
8	**27.3.16**	34.52	78.76	26.36	20.66	7.57	6.00	BDL
9	**2.4.16**	40.12	93.55	27.47	20.00	6.17	5.02	BDL
10	**3.4.16**	34.71	85.37	24.69	24.02	5.25	5.48	BDL
11	**9.4.16**	44.17	80.76	28.02	24.75	8.01	5.61	BDL
12	**10.4.16**	38.22	84.66	27.21	26.96	6.17	5.81	BDL
13	**16.4.16**	30.97	93.88	25.95	24.85	8.01	6.26	BDL
14	**17.4.16**	29.37	90.29	28.74	25.01	4.33	5.89	BDL
15	**23.4.16**	32.51	74.87	29.93	27.12	2.48	6.15	BDL
16	**24.4.16**	36.09	79.90	29.00	21.46	8.01	5.77	BDL
17	**7.5.16**	37.64	83.74	26.65	24.19	4.42	5.85	BDL
18	**8.5.16**	33.06	85.04	24.65	24.31	6.29	5.48	BDL
19	**14.5.16**	40.31	94.50	26.09	22.43	3.49	4.86	BDL
20	**15.5.16**	41.88	70.21	28.11	20.05	7.22	5.15	BDL
21	**21.5.16**	37.08	90.91	26.37	15.90	4.42	4.70	BDL
22	**22.5.16**	33.61	86.21	27.48	18.96	5.35	4.80	BDL
23	**28.6.16**	37.47	93.23	27.40	17.54	8.15	5.41	BDL
24	**29.5.16**	43.93	72.66	27.51	16.66	6.29	4.28	BDL
	Avg	36.63	83.53	26.90	23.35	6.17	5.53	BDL
	Min	29.22	70.21	20.61	15.90	2.48	4.28	BDL
	Max	44.17	94.50	29.93	28.25	11.29	6.81	BDL
	98 Percentile	44.08	94.22	29.50	27.92	9.85	6.56	BDL

Remarks:

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2	The results relate only to the items tested

Analyzed by
SUNIL KATOCH

Authorized Signatory
(Technical Manager)
SANJAY SHARMA

SSWML

Shivalik Solid Waste Management Limited

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101

CIN:U33130HP2005PLC028806, Telefax : 01795-260427, E-mail : rajeev.thakur@tatvaglobal.com

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/AA/02	**Date :11.05.16**	**Page No.1/1**

Name of Industry	**Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited**
Sampling Location	CA2 TSDF project Site
Sampling Protocol	CPCB Guidelines & IS 5182 P-14 2000

S.No.	Date	PM2.5 ug/m³	PM10 ug/m³	NO_2 ug/m³	SO_2 ug/m³	NH_3 ug/m³	O_3 ug/m³	CO mg/m³
1	5.3.16	31.30	90.19	22.65	26.22	7.57	4.86	BDL (DL 1.45 mg/m³)
2	6.3.16	40.94	85.93	26.64	17.68	5.71	4.79	BDL
3	12.3.16	38.55	71.56	29.96	17.47	4.78	4.90	BDL
4	13.3.16	34.55	82.11	26.21	17.25	4.68	4.30	BDL
5	19.3.16	36.55	91.24	26.41	26.18	5.71	3.62	BDL
6	20.3.16	38.66	76.16	25.64	19.92	4.78	5.25	BDL
7	26.3.16	42.39	79.02	28.10	30.61	5.71	5.82	BDL
8	27.3.16	35.34	91.88	28.25	27.10	4.78	5.73	BDL
9	2.4.16	40.39	70.30	24.09	19.53	8.93	4.70	BDL
10	3.4.16	30.20	81.06	24.14	23.29	5.25	4.40	BDL
11	9.4.16	34.24	92.16	24.60	20.91	6.17	4.66	BDL
12	10.4.16	33.91	91.47	25.62	21.26	7.09	3.61	BDL
13	16.4.16	38.64	74.29	26.87	25.21	5.25	3.39	BDL
14	17.4.16	32.51	71.03	27.41	25.43	3.40	5.14	BDL
15	23.4.16	37.47	77.46	28.96	23.43	7.09	4.96	BDL
16	24.4.16	37.79	82.35	27.90	15.49	8.01	5.14	BDL
17	7.5.16	34.67	91.36	26.78	18.77	4.42	4.91	BDL
18	8.5.16	40.77	84.66	24.65	25.04	7.22	5.35	BDL
19	14.5.16	37.70	74.15	27.97	26.80	8.15	5.07	BDL
20	15.5.16	40.72	71.42	28.11	24.37	6.29	4.75	BDL
21	21.5.16	34.55	73.03	27.07	25.85	7.22	4.57	BDL
22	22.5.16	37.15	71.75	28.70	24.19	6.29	4.66	BDL
23	28.6.16	32.51	80.76	30.40	27.84	7.22	4.40	BDL
24	29.5.16	33.47	73.49	28.95	23.67	8.15	3.66	BDL
	Avg	36.46	80.37	26.92	23.06	6.24	4.69	BDL
	Min	30.20	70.30	22.65	15.49	3.40	3.39	BDL
	Max	42.39	92.16	30.40	30.61	8.93	5.82	BDL
	98 Percentile	41.72	92.03	30.20	29.33	8.57	5.78	BDL

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Analyzed by
SUNIL KATOCH

Authorized Signatory
(Technical Manager)
SANJAY SHARMA

Shivalik Solid Waste Management Limited

SSWML

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101

CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@tatvaglobal.com

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/AA/03	**Date :11.06.16**	**Page No.1/1**

Name of Industry	**Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited**
Sampling Location	BA1 Jitali
Sampling Protocol	CPCB Guidelines & IS 5182 P-14 2000

S No.	Date	PM2.5 ug/m³	PM10 ug/m³	NO_2 ug/m³	SO_2 ug/m³	NH_3 ug/m³	O_3 ug/m³	CO mg/m³
1	**5.3.16**	31.70	62.06	28.50	26.41	5.71	4.22	BDL (DL 1.45 mg/m³)
2	**6.3.16**	29.20	86.06	23.39	24.06	4.78	3.62	BDL
3	**12.3.16**	38.10	73.87	26.83	15.94	7.57	4.11	BDL
4	**13.3.16**	28.80	90.50	25.26	18.12	5.71	3.98	BDL
5	**19.3.16**	24.54	90.69	25.18	22.60	7.57	3.95	BDL
6	**20.3.16**	38.02	64.91	26.01	24.52	5.71	3.92	BDL
7	**26.3.16**	31.40	77.64	25.48	23.21	5.71	4.12	BDL
8	**27.3.16**	33.47	90.48	26.18	15.55	7.57	4.01	BDL
9	**2.4.16**	31.70	83.74	25.91	23.82	8.01	3.65	BDL
10	**3.4.16**	29.20	84.05	21.47	22.78	5.25	3.37	BDL
11	**9.4.16**	38.10	75.62	25.62	25.73	4.33	3.86	BDL
12	**10.4.16**	39.27	90.76	25.91	24.15	7.09	3.65	BDL
13	**16.4.16**	24.54	90.91	26.46	23.92	8.01	3.69	BDL
14	**17.4.16**	41.32	65.87	25.47	17.54	4.33	3.77	BDL
15	**23.4.16**	36.91	78.54	26.78	22.80	5.25	3.74	BDL
16	**24.4.16**	38.70	85.50	25.93	23.63	4.33	4.78	BDL
17	**7.5.16**	32.69	72.77	27.43	18.52	4.42	4.90	BDL
18	**8.5.16**	30.85	75.26	23.48	22.46	5.35	4.58	BDL
19	**14.5.16**	27.06	89.13	25.59	23.29	6.29	3.73	BDL
20	**15.5.16**	39.27	84.63	25.87	23.75	4.42	3.53	BDL
21	**21.5.16**	31.33	87.07	24.66	23.23	4.42	3.45	BDL
22	**22.5.16**	32.51	61.99	24.33	23.99	5.35	4.42	BDL
23	**28.6.16**	35.26	79.46	27.74	26.49	6.29	5.08	BDL
24	**29.5.16**	31.38	89.45	25.89	23.57	7.22	4.78	BDL
	Avg	33.14	80.46	25.64	22.50	5.86	4.04	BDL
	Min	24.54	61.99	21.47	15.55	4.33	3.37	BDL
	Max	41.32	90.91	28.50	26.49	8.01	5.08	BDL
	98 Percentile	40.38	90.84	28.15	26.45	8.01	5.00	BDL

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Analysed by
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Authorized Signatory
(Technical Manager)
SANJAY SHARMA

Shivalik Solid Waste Management Limited

SSWML

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101

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TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/AA/04	**Date :11.06.16**	**Page No.1/1**

Name of Industry	Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited
Sampling Location	BA2 Dadhal
Sampling Protocol	CPCB Guidelines & IS 5182 P-14 2000

S No.	Date	PM2.5 ug/m³	PM10 ug/m³	NO_2 ug/m³	SO_2 ug/m³	NH_3 ug/m³	O_3 ug/m³	CO mg/m³
1	5.3.16	32.69	88.14	24.83	19.44	4.78	4.59	BDL (DL 1.45 mg/m³)
2	6.3.16	30.85	71.52	22.92	24.68	4.78	5.70	BDL
3	12.3.16	27.06	75.13	23.96	24.40	7.57	6.04	BDL
4	13.3.16	33.51	80.50	24.37	24.60	5.71	5.13	BDL
5	19.3.16	31.33	80.45	18.99	24.12	7.57	5.28	BDL
6	20.3.16	35.81	72.16	24.49	22.89	3.85	4.98	BDL
7	26.3.16	32.51	79.73	23.75	23.34	4.78	4.50	BDL
8	27.3.16	29.29	75.34	25.40	18.57	8.50	5.40	BDL
9	2.4.16	33.68	89.48	25.47	18.20	4.33	4.86	BDL
10	3.4.16	32.98	83.43	20.23	20.57	5.25	4.53	BDL
11	9.4.16	29.72	77.98	25.19	22.25	5.25	5.05	BDL
12	10.4.16	38.22	79.08	22.80	24.26	6.17	4.87	BDL
13	16.4.16	29.52	89.80	23.13	22.15	8.01	4.88	BDL
14	17.4.16	29.37	89.10	28.74	21.28	4.33	5.89	BDL
15	23.4.16	33.13	70.75	25.65	21.11	5.25	5.61	BDL
16	24.4.16	35.83	78.12	25.65	20.39	4.33	5.48	BDL
17	7.5.16	39.69	80.10	20.40	17.97	5.35	5.11	BDL
18	8.5.16	33.06	77.73	23.82	20.45	7.22	5.62	BDL
19	14.5.16	29.20	86.21	28.69	20.67	3.49	5.21	BDL
20	15.5.16	31.38	66.67	23.70	20.30	6.29	5.21	BDL
21	21.5.16	31.85	87.91	19.57	14.17	4.42	4.07	BDL
22	22.5.16	28.10	80.46	23.81	16.75	4.42	4.16	BDL
23	28.6.16	30.33	89.11	21.41	17.05	3.49	5.16	BDL
24	29.5.16	33.42	70.29	19.81	15.15	6.29	4.01	BDL
	Avg	32.19	79.97	23.62	20.62	5.47	5.06	BDL
	Min	27.06	66.67	18.99	14.17	3.49	4.01	BDL
	Max	39.69	89.80	28.74	24.68	8.50	6.04	BDL
	98 Percentile	39.01	89.65	28.72	24.64	8.27	5.97	BDL

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CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@tatvaglobal.com

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/AA/05	**Date :11.06.16**	**Page No.1/1**

Name of Industry	**Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited**
Sampling Location	BA3 Sarangpur
Sampling Protocol	CPCB Guidelines & IS 5182 P-14 2000

S.No.	Date	PM2.5 ug/m³	PM10 ug/m³	NO_2 ug/m³	SO_2 ug/m³	NH_3 ug/m³	O_3 ug/m³	CO mg/m³
1	**5.3.16**	22.81	81.18	21.31	18.69	4.78	4.49	BDL (DL 1.45 mg/m³)
2	**6.3.16**	37.08	81.94	21.92	18.16	5.71	4.32	BDL
3	**12.3.16**	33.06	69.18	20.23	19.86	3.85	4.16	BDL
4	**13.3.16**	30.85	76.69	19.81	19.02	4.78	3.77	BDL
5	**19.3.16**	26.99	81.59	23.02	25.26	5.71	3.87	BDL
6	**20.3.16**	27.12	72.88	22.05	19.00	4.78	5.01	BDL
7	**26.3.16**	30.78	71.29	23.69	21.84	5.71	4.66	BDL
8	**27.3.16**	29.82	82.72	22.02	23.41	4.78	4.95	BDL
9	**2.4.16**	31.04	66.02	21.80	20.51	4.33	4.25	BDL
10	**3.4.16**	30.01	75.71	22.30	17.73	5.25	3.95	BDL
11	**9.4.16**	36.00	81.35	23.70	20.35	5.25	3.45	BDL
12	**10.4.16**	30.37	85.58	21.06	20.57	5.25	3.03	BDL
13	**16.4.16**	33.42	71.06	21.27	19.31	5.25	3.03	BDL
14	**17.4.16**	27.00	72.64	22.16	19.09	3.40	4.28	BDL
15	**23.4.16**	31.96	71.50	21.08	17.92	7.09	4.35	BDL
16	**24.4.16**	33.29	77.68	22.37	16.83	4.33	4.16	BDL
17	**7.5.16**	31.49	84.01	22.68	14.17	4.42	4.30	BDL
18	**8.5.16**	33.12	80.56	21.11	19.45	5.35	4.86	BDL
19	**14.5.16**	37.47	74.35	21.64	19.56	8.15	4.30	BDL
20	**15.5.16**	30.86	68.25	20.61	18.29	6.29	4.19	BDL
21	**21.5.16**	30.05	70.92	20.40	19.87	3.49	4.07	BDL
22	**22.5.16**	36.59	70.73	20.64	17.73	6.29	4.28	BDL
23	**28.6.16**	27.06	77.09	21.28	20.96	5.35	3.57	BDL
24	**29.5.16**	33.42	71.63	22.09	19.77	6.29	3.41	BDL
	Avg	31.32	75.69	21.68	19.47	5.24	4.11	BDL
	Min	22.81	66.02	19.81	14.17	3.40	3.03	BDL
	Max	37.47	85.58	23.70	25.26	8.15	5.01	BDL
	98 Percentile	37.29	84.86	23.69	24.41	7.66	4.98	BDL

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CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/AA/06	**Date :11.06.16**	**Page No.1/1**
Name of Industry	**Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited**	
Sampling Location	BA4 Kapodra	
Sampling Protocol	CPCB Guidelines & IS 5182 P-14 2000	

S.No.	Date	PM2.5 ug/m³	PM10 ug/m³	NO_2 ug/m³	SO_2 ug/m³	NH_3 ug/m³	O_3 ug/m³	CO mg/m³
1	5.3.16	34.41	71.83	22.88	12.18	3.85	4.95	BDL (DL 1.45 mg/m³)
2	6.3.16	37.40	60.84	23.63	16.18	4.78	4.94	BDL
3	12.3.16	24.02	61.28	24.24	17.00	8.50	4.89	BDL
4	13.3.16	27.93	80.41	22.62	14.65	4.78	4.78	BDL
5	19.3.16	21.48	85.47	23.36	11.65	3.85	7.33	BDL
6	20.3.16	21.79	80.06	23.46	11.24	3.85	5.00	BDL
7	26.3.16	39.61	81.34	21.20	20.57	6.64	4.82	BDL
8	27.3.16	34.66	77.65	20.27	19.88	4.78	4.78	BDL
9	2.4.16	24.95	81.97	20.11	12.00	4.33	4.91	BDL
10	3.4.16	32.63	79.32	21.26	15.95	5.25	4.58	BDL
11	9.4.16	32.69	85.52	21.97	10.19	4.33	5.15	BDL
12	10.4.16	33.40	68.18	20.11	14.74	3.40	4.91	BDL
13	16.4.16	31.63	89.66	21.03	11.45	5.25	5.22	BDL
14	17.4.16	32.27	65.26	20.14	10.89	5.25	5.15	BDL
15	23.4.16	32.42	78.01	20.11	9.95	4.33	4.66	BDL
16	24.4.16	36.67	83.30	20.80	16.99	7.09	4.71	BDL
17	7.5.16	35.33	88.32	19.38	11.51	6.29	4.86	BDL
18	8.5.16	34.34	71.31	20.72	15.50	5.35	4.85	BDL
19	14.5.16	29.52	86.27	22.19	10.22	8.15	5.35	BDL
20	15.5.16	30.90	69.68	21.06	18.98	3.49	5.28	BDL
21	21.5.16	31.22	65.82	20.57	18.74	5.35	4.83	BDL
22	22.5.16	32.91	83.74	18.24	18.26	6.29	5.02	BDL
23	28.6.16	29.46	71.12	17.40	16.52	6.29	5.97	BDL
24	29.5.16	34.79	72.19	18.04	16.91	5.35	4.84	BDL
	Avg	31.52	76.61	21.03	14.67	5.28	5.07	BDL
	Min	21.48	60.84	17.40	9.95	3.40	4.58	BDL
	Max	39.61	89.66	24.24	20.57	8.50	7.33	BDL
	98 Percentile	38.59	89.04	23.96	20.25	8.34	6.70	BDL

Remarks:

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2	The results relate only to the items tested

Analyzed by
SUNIL KATOCH

Authorized Signatory
(Technical Manager)
SANJAY SHARMA

SSWML

Shivalik Solid Waste Management Limited

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101

CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/AA/07	**Date :11.06.16**	**Page No.1/1**

Name of Industry	**Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited**
Sampling Location	BA5 Bhadkodra
Sampling Protocol	CPCB Guidelines & IS 5182 P-14 2000

S.No.	Date	PM2.5 ug/m³	PM10 ug/m³	NO_2 ug/m³	SO_2 ug/m³	NH_3 ug/m³	O_3 ug/m³	CO mg/m³
1	**5.3.16**	26.71	83.09	20.61	17.97	5.35	5.00	BDL (DL 1.45 mg/m³)
2	**6.3.16**	28.91	83.90	20.89	20.45	7.22	5.62	BDL
3	**12.3.16**	27.47	77.64	19.18	20.67	3.49	5.21	BDL
4	**13.3.16**	29.88	78.25	21.32	20.30	6.29	5.35	BDL
5	**19.3.16**	27.82	82.24	19.57	14.17	4.42	4.19	BDL
6	**20.3.16**	35.81	70.22	22.76	16.75	4.42	4.16	BDL
7	**26.3.16**	32.51	76.18	21.41	17.05	3.49	5.16	BDL
8	**27.3.16**	29.29	82.19	19.81	15.15	6.29	4.01	BDL
9	**2.4.16**	27.61	78.74	18.17	17.41	4.33	4.65	BDL
10	**3.4.16**	28.21	84.80	18.57	21.03	5.25	4.63	BDL
11	**9.4.16**	34.10	74.06	20.61	17.05	5.25	5.48	BDL
12	**10.4.16**	30.73	78.73	20.63	19.77	6.17	5.41	BDL
13	**16.4.16**	26.53	80.63	21.31	21.31	8.01	5.48	BDL
14	**17.4.16**	29.07	77.90	20.37	20.00	4.33	5.54	BDL
15	**23.4.16**	27.74	78.75	20.85	20.60	5.25	5.48	BDL
16	**24.4.16**	30.60	74.38	20.10	18.96	4.33	5.10	BDL
17	**7.5.16**	28.20	77.53	18.77	19.44	4.78	4.59	BDL
18	**8.5.16**	27.55	82.65	19.21	21.34	4.78	5.70	BDL
19	**14.5.16**	20.61	81.27	19.85	21.10	7.57	6.04	BDL
20	**15.5.16**	22.12	82.80	18.16	18.28	5.71	5.13	BDL
21	**21.5.16**	27.56	78.56	18.99	20.86	6.64	5.28	BDL
22	**22.5.16**	22.56	80.29	18.99	19.66	3.85	4.98	BDL
23	**28.6.16**	25.95	64.99	18.78	23.34	4.78	4.50	BDL
24	**29.5.16**	25.45	68.38	19.63	18.57	5.71	5.40	BDL
	Avg	28.04	78.26	19.94	19.22	5.32	5.09	BDL
	Min	20.61	64.99	18.16	14.17	3.49	4.01	BDL
	Max	35.81	84.80	22.76	23.34	8.01	6.04	BDL
	98 Percentile	35.03	84.39	22.14	22.42	7.81	5.88	BDL

Remarks:

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Analyzed by
SUNIL KATOCH

Authorized Signatory
SANJAY SHARMA

SSWML

Shivalik Solid Waste Management Limited

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101
CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/AA/08	**Date :11.06.16**	**Page No.1/1**

Name of Industry	**Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited**
Sampling Location	BA6 Motali
Sampling Protocol	CPCB Guidelines & IS 5182 P-14 2000

S.No.	Date	PM2.5 ug/m³	PM10 ug/m³	NO_2 ug/m³	SO_2 ug/m³	NH_3 ug/m³	O_3 ug/m³	CO mg/m³
1	**5.3.16**	24.95	64.20	19.22	12.00	4.33	4.91	BDL (DL 1.45 mg/m³)
2	**6.3.16**	28.16	71.31	21.48	15.95	5.25	4.58	BDL
3	**12.3.16**	23.73	78.34	21.97	10.19	4.33	5.15	BDL
4	**13.3.16**	28.69	69.68	19.66	14.74	3.40	4.91	BDL
5	**19.3.16**	27.11	65.82	21.03	11.45	5.25	5.22	BDL
6	**20.3.16**	27.85	79.65	20.14	10.89	5.25	5.15	BDL
7	**26.3.16**	30.19	71.12	20.11	10.29	4.33	4.66	BDL
8	**27.3.16**	29.15	72.19	20.58	16.99	5.25	4.71	BDL
9	**2.4.16**	26.39	78.12	18.95	11.51	5.35	4.86	BDL
10	**3.4.16**	29.63	63.01	20.72	15.50	5.35	4.85	BDL
11	**9.4.16**	29.52	79.84	22.19	10.22	8.15	5.35	BDL
12	**10.4.16**	30.90	79.69	21.06	18.98	3.49	5.28	BDL
13	**16.4.16**	26.76	77.94	20.57	19.45	5.35	4.83	BDL
14	**17.4.16**	28.40	66.05	18.24	18.26	6.29	5.02	BDL
15	**23.4.16**	29.46	78.92	17.18	16.52	4.42	5.97	BDL
16	**24.4.16**	25.51	79.90	18.04	15.52	5.35	4.84	BDL
17	**7.5.16**	39.28	78.09	19.83	11.78	5.35	4.97	BDL
18	**8.5.16**	35.91	79.32	20.25	15.15	5.35	4.74	BDL
19	**14.5.16**	32.64	79.06	20.45	10.07	8.15	4.93	BDL
20	**15.5.16**	22.74	68.18	20.07	18.08	3.49	5.03	BDL
21	**21.5.16**	33.16	76.41	20.32	18.52	5.35	4.77	BDL
22	**22.5.16**	38.06	65.26	17.38	17.40	5.35	4.53	BDL
23	**28.6.16**	34.88	78.01	17.00	16.14	4.42	4.50	BDL
24	**29.5.16**	39.02	79.50	17.03	15.96	5.35	4.33	BDL
	Avg	30.09	74.15	19.73	14.65	5.16	4.92	BDL
	Min	22.74	63.01	17.00	10.07	3.40	4.33	BDL
	Max	39.28	79.90	22.19	19.45	8.15	5.97	BDL
	98 Percentile	39.16	79.87	22.09	19.23	8.15	5.68	BDL

Remarks:

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Analyzed by
SUNIL KATOCH

Authorized Signatory
(Technical Manager)
SANJAY SHARMA

SSWML

Shivalik Solid Waste Management Limited

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101
CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/AA/09	**Date :11.06.16**	**Page No.1/1**

Name of Industry	**Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited**
Sampling Location	BA7 Ghadkhol
Sampling Protocol	CPCB Guidelines & IS 5182 P-14 2000

S.No.	Date	PM2.5 ug/m³	PM10 ug/m³	NO_2 ug/m³	SO_2 ug/m³	NH_3 ug/m³	O_3 ug/m³	CO mg/m³
1	5.3.16	28.69	72.85	18.11	16.66	5.71	4.89	BDL (DL 1.45 mg/m³)
2	6.3.16	21.86	79.97	16.55	18.54	4.78	4.94	BDL
3	12.3.16	26.60	77.19	18.30	17.81	3.85	8.97	BDL
4	13.3.16	29.67	68.19	17.04	17.13	4.78	4.83	BDL
5	19.3.16	25.94	76.39	16.21	21.19	4.78	4.78	BDL
6	20.3.16	25.64	79.90	18.09	20.81	5.71	6.25	BDL
7	26.3.16	28.64	78.88	20.11	19.45	6.64	5.00	BDL
8	27.3.16	29.70	79.79	18.77	15.99	4.78	6.11	BDL
9	2.4.16	25.90	74.66	18.54	17.13	6.17	4.53	BDL
10	3.4.16	24.26	79.19	18.11	21.33	5.25	4.73	BDL
11	9.4.16	22.53	74.28	17.65	20.21	4.33	4.78	BDL
12	10.4.16	24.75	68.95	18.55	18.62	6.17	5.97	BDL
13	16.4.16	26.75	75.66	21.03	15.95	6.17	4.84	BDL
14	17.4.16	26.46	67.82	19.89	17.48	5.25	4.78	BDL
15	23.4.16	28.77	79.30	19.43	15.24	5.25	4.60	BDL
16	24.4.16	27.43	76.36	20.14	18.25	4.33	4.90	BDL
17	7.5.16	25.95	78.04	18.72	15.52	1.62	4.71	BDL
18	8.5.16	27.99	74.05	19.17	15.68	5.35	4.78	BDL
19	14.5.16	26.01	76.80	19.39	16.52	6.29	4.73	BDL
20	15.5.16	24.07	72.27	19.86	17.47	5.35	4.90	BDL
21	21.5.16	27.81	68.72	19.84	15.34	3.49	4.66	BDL
22	22.5.16	29.58	78.87	20.55	18.17	5.35	4.90	BDL
23	28.6.16	28.55	72.08	19.39	15.84	2.55	4.73	BDL
24	29.5.16	28.40	77.22	20.08	14.83	4.42	4.84	BDL
	Avg	26.75	75.31	18.90	17.55	4.93	5.13	BDL
	Min	21.86	67.82	16.21	14.83	1.62	4.53	BDL
	Max	29.70	79.97	21.03	21.33	6.64	8.97	BDL
	98 Percentile	29.68	79.94	20.81	21.26	6.48	7.72	BDL

Remarks:

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Analyzed by
SUNIL KATOCH

Authorized Signatory
(Technical Manager)
SANJAY SHARMA

Shivalik Solid Waste Management Limited

SSWML

(LABORATORY DIVISION)
Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101
CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@beil.co.in

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/AA/10	**Date :11.06.16**	**Page No.1/1**

Name of Industry	**Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited**
Sampling Location	BA8 Kosamdi
Sampling Protocol	CPCB Guidelines & IS 5182 P-14 2000

S.No.	Date	PM2.5 ug/m³	PM10 ug/m³	NO_2 ug/m³	SO_2 ug/m³	NH_3 ug/m³	O_3 ug/m³	CO mg/m³
1	5.3.16	31.49	77.58	19.22	12.00	4.33	4.91	BDL (DL 1.45 mg/m³)
2	6.3.16	33.12	79.90	21.48	15.95	5.25	4.58	BDL
3	12.3.16	37.47	69.18	21.97	10.19	4.33	5.15	BDL
4	13.3.16	30.86	76.69	19.66	14.74	3.40	4.91	BDL
5	19.3.16	30.05	81.59	21.03	11.45	5.25	5.22	BDL
6	20.3.16	36.59	72.88	20.14	10.89	5.25	5.15	BDL
7	26.3.16	27.06	71.29	20.11	10.29	4.33	4.66	BDL
8	27.3.16	33.42	82.72	20.58	16.99	5.25	4.71	BDL
9	2.4.16	30.89	71.83	20.61	16.34	6.17	4.57	BDL
10	3.4.16	28.40	60.84	18.34	15.56	5.25	4.62	BDL
11	9.4.16	26.19	61.28	18.34	19.75	5.25	5.90	BDL
12	10.4.16	26.67	80.41	17.67	21.33	2.48	4.48	BDL
13	16.4.16	28.08	85.47	17.48	18.20	8.01	4.62	BDL
14	17.4.16	29.40	80.06	16.83	18.53	6.17	4.38	BDL
15	23.4.16	26.47	81.34	57.02	17.02	5.25	4.57	BDL
16	24.4.16	29.06	77.65	17.09	14.57	4.33	4.52	BDL
17	7.5.16	24.95	83.09	20.72	12.18	3.85	4.95	BDL
18	8.5.16	28.16	83.90	23.63	16.18	4.78	4.94	BDL
19	14.5.16	32.69	71.82	24.24	17.00	5.71	4.89	BDL
20	15.5.16	28.69	78.25	22.62	14.65	4.78	4.78	BDL
21	21.5.16	31.63	82.24	23.36	11.65	3.85	4.52	BDL
22	22.5.16	27.85	70.22	23.46	11.24	3.85	5.00	BDL
23	28.6.16	32.42	76.18	18.99	20.57	6.64	4.82	BDL
24	29.5.16	27.27	82.19	20.27	19.88	4.78	4.78	BDL
	Avg	29.95	76.61	21.87	15.30	4.94	4.82	BDL
	Min	24.95	60.84	16.83	10.19	2.48	4.38	BDL
	Max	37.47	85.47	57.02	21.33	8.01	5.90	BDL
	98 Percentile	37.06	84.75	41.94	20.98	7.38	5.59	BDL

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Analyzed by
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SSWML

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101

CIN:U33130HP2005PLC028806, Telefax : 01795-260427, E-mail : rajeev.thakur@tatvaglobal.com

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/AA/11	Date :11.06.16	Page No.1/1

Name of Industry	**Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited**
Sampling Location	BA9 Umarwada
Sampling Protocol	CPCB Guidelines & IS 5182 P-14 2000

S.No.	Date	PM2.5 ug/m³	PM10 ug/m³	NO_2 ug/m³	SO_2 ug/m³	NH_3 ug/m³	O_3 ug/m³	CO mg/m³
1	5.3.16	26.76	63.98	19.68	10.54	4.33	5.15	BDL (DL 1.45 mg/m³)
2	6.3.16	28.40	71.11	19.66	14.74	3.40	4.91	BDL
3	12.3.16	26.39	78.14	21.03	11.45	5.25	5.22	BDL
4	13.3.16	29.63	69.68	17.85	11.24	5.25	5.15	BDL
5	19.3.16	30.28	65.61	21.03	11.45	5.25	5.22	BDL
6	20.3.16	27.85	79.44	20.14	11.59	5.25	5.15	BDL
7	26.3.16	30.19	70.90	20.11	10.29	4.33	4.66	BDL
8	27.3.16	29.15	71.99	18.31	16.64	5.25	4.71	BDL
9	2.4.16	27.32	78.12	19.22	12.00	4.33	4.91	BDL
10	3.4.16	28.22	62.81	21.48	15.95	5.25	4.58	BDL
11	9.4.16	28.47	79.62	21.97	10.19	4.33	5.15	BDL
12	10.4.16	29.84	79.48	19.66	14.74	3.40	4.91	BDL
13	16.4.16	26.76	77.94	21.03	11.45	5.25	5.22	BDL
14	17.4.16	28.40	65.83	18.24	18.26	6.29	5.02	BDL
15	23.4.16	29.46	78.25	17.18	16.52	4.42	5.97	BDL
16	24.4.16	25.51	79.49	18.04	15.52	5.35	4.84	BDL
17	7.5.16	26.66	77.89	17.85	12.29	5.25	5.15	BDL
18	8.5.16	26.53	78.90	20.11	10.29	4.33	4.66	BDL
19	14.5.16	28.10	78.85	20.58	16.99	5.25	4.71	BDL
20	15.5.16	30.21	67.97	20.07	15.34	3.49	5.03	BDL
21	21.5.16	33.16	76.63	20.32	16.06	5.35	4.77	BDL
22	22.5.16	27.63	65.05	17.38	17.40	5.35	4.53	BDL
23	28.6.16	29.67	77.79	17.00	16.14	4.42	4.50	BDL
24	29.5.16	28.62	79.30	17.03	15.96	5.35	4.33	BDL
	Avg	28.47	73.95	19.37	13.88	4.82	4.93	BDL
	Min	25.51	62.81	17.00	10.19	3.40	4.33	BDL
	Max	33.16	79.62	21.97	18.26	6.29	5.97	BDL
	98 Percentile	31.83	79.56	21.74	17.86	5.86	5.62	BDL

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Analyzed by

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(Technical Manager)

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SSWML

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Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101
CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@tatvaglobal.com

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/AA/12	**Date :11.06.16**	**Page No.1/1**

Name of Industry	**Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited**
Sampling Protocol	CPCB Guidelines & IS 5182 P-14 2000

S.No.	Location	Benzene ug/m^3	BaP (Particulate Phase) ng/m^3	Lead (Pb) ug/m^3	Arseni(As) ng/m^3	Nickel (Ni) ng/m^3
1	TSDF Up	BDL	BDL	BDL	BDL	BDL
2	TSDF Down	BDL	BDL	BDL	BDL	BDL
3	Jitali	BDL	BDL	BDL	BDL	BDL
4	Dadhal	BDL	BDL	BDL	BDL	BDL
5	Sarangpur	BDL	BDL	BDL	BDL	BDL
6	Kapodra	BDL	BDL	BDL	BDL	BDL
7	Bhadkodra	BDL	BDL	BDL	BDL	BDL
8	Motali	BDL	BDL	BDL	BDL	BDL
9	Ghadkhol	BDL	BDL	BDL	BDL	BDL
10	Kosamdi	BDL	BDL	BDL	BDL	BDL
11	Umarwada	BDL	BDL	BDL	BDL	BDL

Benzene DL=4 ug/m^3; BaP DL=1 ng/ m^3 ; Lead DL= 0.4 ug/m^3 ; Arsenic DL= 5 ng/m^3 ; Nickel DL=15 ng/m^3

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(Technical Manager)
SANJAY SHARMA

Shivalik Solid Waste Management Limited

SSWML

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101
CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@tatvaglobal.com

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/GW/13-17	**Date: 11.06.16**	**Page No. 1/2**

To	Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited
Type of Sample:	Ground Water
Work Order No. & Date:	Email by EIA Division
Quantity, Packing, Identity	2.5 L Plastic Bottle + 300 mL Sterilized Glass Bottle, water marked BEIL-GW-01 to 05
Mode of Receipt of Sample:	Sampling by Laboratory
Date of Sampling:	12.3.16; 17.4.16; 15.5.16
Sampling Protocol:	IS: 3025 Part-1
Testing Protocol:	IS:10500-2012
Remarks:	Standard Limits and test methods are enclosed as Annexure-I

S. No.	Parameters	Units	Results				
			BEIL-GW-01 Navi Nagri (Jitali)	BEIL-GW-02 Madresa (Jitali)	BEIL-GW-03 Motali	BEIL-GW-04 Umarwda	BEIL-GW-05 Gadkhol
1.	Colour	Hazen	<5	<5	<5	<5	<5
2.	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	<5	<5	<1	<1	<1
4.	pH Value	----	7.41	7.52	7.67	7.34	8.01
5.	Total Hardness (as $CaCO_3$)	mg/L	788	577	166	989	313
6.	Calcium(as Ca)	mg/L	212	192	35	282	77
7.	Magnesium (as Mg)	mg/L	63	24	19	69	30
8.	Chloride (as Cl)	mg/L	275.20	239.53	86.64	411.10	188.56
9.	Total Dissolved Solids	mg/L	1362.00	934.00	336.00	2050.00	740.00
10.	Total Alkalinity (as $CaCO_3$)	mg/L	433.79	351.72	121.15	840.22	214.94
11.	Sulphate(as SO_4)	mg/L	176.00	138.00	24.00	224.00	60.00
12.	Nitrate (as NO_3)	mg/L	1.10	6.88	3.98	6.22	5.89
13.	Fluoride(as F)	mg/L	0.31	0.28	0.32	0.12	0.29
14	NH_3 (as Total ammonia-N)	mg/L	0.11	0.12	0.11	0.13	0.10

15.	Cyanide (as CN)	mg/L	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)
16.	Phenolic Compounds(as C_6H_5OH)	mg/L	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)
17	Boron (as B)	mg/L	BDL (DL-0.2)	BDL (DL-0.2)	BDL (DL-0.2)	BDL (DL-0.2)	BDL (DL-0.2)
18.	Total Arsenic(as As)	mg/L	BDL (DL=0.009)	BDL (DL=0.009)	BDL (DL=0.009)	BDL (DL=0.009)	BDL (DL=0.009)
19.	Copper (as Cu)	mg/L	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)
20.	Total Chromium(as Cr)	mg/L	BDL (DL=0.04)	BDL (DL=0.04)	BDL (DL=0.04)	BDL (DL=0.04)	BDL (DL=0.04)
21.	Cadmium(as Cd)	mg/l	BDL (DL=0.003)	BDL (DL=0.003)	BDL (DL=0.003)	BDL (DL=0.003)	BDL (DL=0.003)
22.	Iron (as Fe)	mg/L	0.14	0.28	0.29	0.44	0.32
23.	Lead (as Pb)	mg/L	BDL (DL=0.008)	BDL (DL=0.008)	BDL (DL=0.008)	BDL (DL=0.008)	BDL (DL=0.008)
24.	Manganese (as Mn)	mg/L	BDL (DL=0.09)	BDL (DL=0.09)	BDL (DL=0.09)	BDL (DL=0.09)	BDL (DL=0.09)
25.	Mercury (as Hg)	mg/L	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)
26.	Nickel (Ni)	mg/L	BDL (DL=0.01)	BDL (DL=0.01)	BDL (DL=0.01)	BDL (DL=0.01)	BDL (DL=0.01)
27.	Zinc (as Zn)	mg/L	0.34	0.43	0.28	0.31	0.37
28.	Conductivity	µmhos/cm	2270.00	1556.67	560.00	3416.67	1193.55
29.	Total Coliform	MPN/100 ml	<1.8	<1.8	<1.8	<1.8	<1.8
30.	E- Coli	---	Absent	Absent	Absent	Absent	Absent

NOTE:

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2	The results relate only to the items tested
3.	BDL= Below Detection Limit DL= Detection Limit

Analyzed by
Anuradha

Authorized Signatory
(Technical Manager)
SANJAY SHARMA

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TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/GW/18-22	**Date: 11.06.16**	**Page No. 1/2**

To	Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited
Type of Sample:	Ground Water
Work Order No. & Date:	Email by EIA Division
Quantity, Packing, Identity	2.5 L Plastic Bottle + 300 mL Sterilized Glass Bottle, water marked BEIL-GW-06 to 10
Mode of Receipt of Sample:	Sampling by Laboratory
Date of Sampling:	12.3.16; 17.4.16; 15.5.16
Sampling Protocol:	IS: 3025 Part-1
Testing Protocol:	IS:10500-2012
Remarks:	Standard Limits and test methods are enclosed as Annexure-I

S. No.	Parameters	Units	Results				
			BEIL-GW-06 Kosamdi	BEIL-GW-07 Kapodra	BEIL-GW-08 Bhadkodra	BEIL-GW-09 Dadhal	BEIL-GW-10 Sarangpur
1.	Colour	Hazen	<5	<5	<5	<5	<5
2.	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
3.	Turbidity	NTU	<1	<1	<1	<1	<1
4.	pH Value	----	8.19	7.66	7.68	7.78	7.75
5.	Total Hardness (as $CaCO_3$)	mg/L	215	533	431	436	1096
6.	Calcium(as Ca)	mg/L	55	153	124	122	324
7.	Magnesium (as Mg)	mg/L	19	37	30	32	70
8.	Chloride (as Cl)	mg/L	115.52	210.65	197.06	169.88	389.02
9.	Total Dissolved Solids	mg/L	546.00	926.00	1016.00	938.00	2192.00
10.	Total Alkalinity (as $CaCO_3$)	mg/L	171.95	359.54	340.00	332.18	805.05
11.	Sulphate(as SO_4)	mg/L	52.00	140.00	98.00	78.00	205.00
12.	Nitrate (as NO_3)	mg/L	3.41	6.32	6.11	5.11	11.80
13.	Fluoride(as F)	mg/L	0.66	0.81	0.78	0.44	0.89
14	NH_3 (as Total ammonia-N)	mg/L	0.12	0.14	0.13	0.11	0.12

15.	Cyanide (as CN)	mg/L	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)
16.	Phenolic Compounds(as C_6H_5OH)	mg/L	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)
17	Boron (as B)	mg/L	BDL (DL-0.2)	BDL (DL-0.2)	BDL (DL-0.2)	BDL (DL-0.2)	BDL (DL-0.2)
18.	Total Arsenic(as As)	mg/L	BDL (DL=0.009)	BDL (DL=0.009)	BDL (DL=0.009)	BDL (DL=0.009)	BDL (DL=0.009)
19.	Copper (as Cu)	mg/L	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)
20.	Total Chromium(as Cr)	mg/L	BDL (DL=0.04)	BDL (DL=0.04)	BDL (DL=0.04)	BDL (DL=0.04)	BDL (DL=0.04)
21.	Cadmium(as Cd)	mg/l	BDL (DL=0.003)	BDL (DL=0.003)	BDL (DL=0.003)	BDL (DL=0.003)	BDL (DL=0.003)
22.	Iron (as Fe)	mg/L	0.28	0.13	0.33	0.13	0.37
23.	Lead (as Pb)	mg/L	BDL (DL=0.008)	BDL (DL=0.008)	BDL (DL=0.008)	BDL (DL=0.008)	BDL (DL=0.008)
24.	Manganese (as Mn)	mg/L	BDL (DL=0.09)	BDL (DL=0.09)	BDL (DL=0.09)	BDL (DL=0.09)	BDL (DL=0.09)
25.	Mercury (as Hg)	mg/L	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)
26.	Nickel (Ni)	mg/L	BDL (DL=0.01)	BDL (DL=0.01)	BDL (DL=0.01)	BDL (DL=0.01)	BDL (DL=0.01)
27.	Zinc (as Zn)	mg/L	0.44	0.18	0.21	0.31	0.42
28.	Conductivity	µmhos/cm	880.65	1493.55	1587.50	1465.63	3425.00
29.	Total Coliform	MPN/100 ml	<1.8	<1.8	<1.8	<1.8	<1.8
30.	E- Coli	---	Absent	Absent	Absent	Absent	Absent

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Analyzed by

Anuradha

Authorized Signatory
(Technical Manager)

SANJAY SHARMA

S. No.	Parameters	Units	Standard limits		Test Method
			Desirable Limit	Permissible Limit (In absence of better alternate source)	
1.	Colour	Hazen	5	15	IS:3025(P4)1983
2.	Odour	--	Agreeable	Agreeable	IS:3025(P 5) 1983
3.	Turbidity	NTU	1	5	IS:3025(P 10) 1984
4.	pH Value	----	6.5-8.5	No Relaxation	APHA-4500H^+-B,22nd Ed. 2012
5.	Total Hardness (as $CaCO_3$)	mg/L	200	600	APHA-2340-C,22nd Ed. 2012
6.	Calcium(as Ca)	mg/L	75	200	APHA 3500 Ca B,22nd Ed. 2012
7.	Magnesium (as Mg)	mg/L	30	100	APHA 3500 MgB,22nd Ed. 2012
8.	Chloride (as Cl)	mg/L	250	1000	APHA-4500 Cl^-B, 22nd Ed. 2012
9.	Total Dissolved Solids	mg/L	500	2000	APHA-2540-C,22nd Ed. 2012
10.	Total Alkalinity (as $CaCO_3$)	mg/L	200	600	APHA-2320-B,22nd Ed. 2012
11.	Sulphate(as SO_4)	mg/L	200	400	IS:3025(P 24)
12.	Nitrate (as NO_3)	mg/L	45	No Relaxation	APHA 4500-No_3^-B,22nd Ed. 2012
13.	Fluoride(as F)	mg/L	1	1.5	APHA 4500-F^-D,22nd Ed. 2012
14	NH_3 (as Total ammonia-N)	mg/L	0.5	No Relaxation	APHA 4500-NH_3 B,C,22nd Ed. 2012
15.	Cyanide (as CN)	mg/L	0.05	No Relaxation	IS:3025(P:27):2003
16.	Phenolic Compounds(as C_6H_5OH)	mg/L	0.001	0.002	IS:3025(P 43)
17	Boron (as B)	mg/L	0.5	1.0	APHA 4500-B B,22nd Ed. 2012
18.	Total Arsenic(as As)	mg/L	0.02	0.05	APHA 3113 B,22nd Ed. 2012
19.	Copper (as Cu)	mg/L	0.05	1.5	APHA 3111 B,22nd Ed. 2012
20.	Total Chromium(as Cr)	mg/L	0.05	No Relaxation	APHA 3111 B,22nd Ed. 2012
21.	Cadmium(as Cd)	mg/L	0.003	No Relaxation	APHA 3111 B,22nd Ed. 2012
22.	Iron (as Fe)	mg/L	0.3	No Relaxation	APHA 3111 B,22nd Ed. 2012
23.	Lead (as Pb)	mg/L	0.01	No Relaxation	APHA 3111 B,22nd Ed. 2012
24.	Manganese (as Mn)	mg/L	0.1	0.3	APHA 3111 B,22nd Ed. 2012
25.	Mercury (as Hg)	mg/L	0.001	No Relaxation	APHA 3112 B,22nd Ed. 2012
26.	Nickel (Ni)	mg/L	0.02	No Relaxation	APHA 3111 B,22nd Ed. 2012
27.	Zinc (as Zn)	mg/L	5	15	APHA 3111 B,22nd Ed. 2012
28.	Conductivity	µmhos/cm	-	-	APHA 2510 B,22nd Ed.
29.	Total Coliform	MPN/100 ml	10	....	APHA 9221 E,22nd Ed. 2012
30.	E- Coli	---	Shall not be detectable in any 100ml sample	----	APHA 9221- F,22nd Ed. 2012

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CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@tatvaglobal.com

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/N/38-48	**Date: 11.06.16**	**Page No. 1/1**

To	Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat M/s Bharuch Enviro Infrastructure Limited
Type of Sample:	Ambient Noise Levels
Work Order No. & Date:	Email Request from EIA Division
Mode of Receipt of Sample:	Sampling by Laboratory
Date of Sampling:	5.3.16; 12.3.16; 19.3.16; 26.3.16; 3.4.16; 9.4.16;16.4.16; 23.4.16; 8.5.16; 15.5.16; 22.5.16; 29.5.16
Testing Protocol:	National Ambient Air Quality Standards for Noise
Remarks & Observation:	Clear Sky

S.No	Test	Location	Category	Unit	Results		Standard Limits		Test Method
					Day Time	Night Time	Day Time	Night Time	
1	Ambient Noise Levels 1 Hour L_{eq}	Near Main gate	Industrial	dB(A)	61.1	54.8	75	70	IS: 9989:1981 R-2002
		Near Laboratory	Industrial	dB(A)	58.2	50.2	75	70	
		Near ADM Building	Industrial	dB(A)	55.7	48.8	75	70	
		Near Truck Washing	Industrial	dB(A)	57.5	48.5	75	70	
		Near Drum Storage Area	Industrial	dB(A)	56.5	47.5	75	70	
		Near Water Harvesting System	Industrial	dB(A)	55.5	45.5	75	70	
		Near EB1 Borewell	Industrial	dB(A)	56.5	44.8	75	70	
		Near Leachate Well-4	Industrial	dB(A)	55.1	45.6	75	70	
		Near Incinerator Plant	Industrial	dB(A)	64.3	50.1	75	70	
		East Side of Incinerator Plant	Industrial	dB(A)	60.2	48.4	75	70	
		Near Vallya Chowki Bus Stand	Commercial	dB(A)	63.2	50.1	65	55	
		Motali	Residential	dB(A)	52.1	40.8	55	45	
		Umarwada	Residential	dB(A)	51.8	41.1	55	45	
		Bhadkodra	Residential	dB(A)	53.2	40.7	55	45	
		Gadkhol	Residential	dB(A)	52.2	41.2	55	45	

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Analyzed by
SUNIL KATOCH

Authorized Signatory
(Technical Manager)
SANJAY SHARMA

Shivalik Solid Waste Management Limited

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101

CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@tatvaglobal.com

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/SS/27-32	**Date: 11.06.16**	**Page No.1/2**

To	Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited
Type of Sample:	Soil Sample
Work Order No. & Date:	Email Request from EIA Division
Mode of Receipt of Sample:	Sampling by Laboratory
Date of Sampling:	12.3.16; 17.4.16; 15.5.16
Quantity, Packing, Identity	1 Kg Plastic Pouches, marked BEIL-SS-01- Behind Landfill, BEIL-SS-02- Opp Admin, BEIL-SS-03-Jitali, BEIL-SS-04- Dadhal, BEIL-SS-05-Sarangpur, BEIL-SS-06- Kapodra.

S. No.	Parameters	Unit	Results						Test Method
			BEIL-SS-01	BEIL-SS-02	BEIL-SS-03	BEIL-SS-04	BEIL-SS-05	BEIL-SS-06	
1	Soil Texture	--	Loamy Sand	Clay Loam	Clay Loam	Clay Loam	Loamy Sand	Loamy Sand	Manual of Soil Testing, Ministry of Agriculture GoI
2	Sand	%	75.4	58.8	58.7	36.2	80.1	83.5	Manual of Soil Testing, Ministry of Agriculture GoI
3.	Clay	%	19	29.8	10.6	49.5	8.3	9.8	Manual of Soil Testing, Ministry of Agriculture GoI
4.	Silt	%	5.6	11.4	30.7	14.3	11.6	6.7	Manual of Soil Testing, Ministry of Agriculture GoI
5.	Bulk Density	g/cc	1.42	1.32	1.35	1.27	1.14	1.24	Manual of Soil Testing, Ministry of Agriculture GoI
6.	Porosity	%	20	20	22	21	22	19	Manual of Soil Testing, Ministry of Agriculture GoI
7.	Permeability	cm/hour	0.012	0.006	0.06	0.006	0.12	0.012	Manual of Soil Testing, Ministry of Agriculture GoI
8.	pH (1:2.5 at 25°C)	--	7.91	7.77	7.54	7.81	7.88	7.98	IS: 2720(Part 26)1987 R2011
9.	Conductivity (1:2.5 at 25°C)	µmhos/cm	130	161	2133	187	211	181	IS 14767-2000
10	Organic Carbon	%	0.38	0.90	1.31	2.15	0.23	0.96	IS: 2720 P-22 1972 R 2010
11	Organic matter	%	0.65	1.55	2.27	3.70	0.40	1.65	IS: 2720 P-22 1972 R 2010
12	CEC	meq/100 g	128.00	116.00	94.00	134.00	108.00	132.00	Manual of Soil Testing , Ministry of Agriculture GoI
13	Available N	mg/kg	70.00	138.00	112.00	110.00	44.00	105.00	Manual of Soil Testing , Ministry of Agriculture GoI
14	Available Phosphorus	mg/kg	0.8	0.88	0.8	39.84	0.88	0.88	Manual of Soil Testing , Ministry of Agriculture GoI
15	Available Potassium	mg/kg	68.9	61.2	112	187	138	69.8	Manual of Soil Testing, Ministry of Agriculture GoI
16	PAH	mg/kg	BDL (DL=5)	BDL (DL=5)	BDL (DL=5)	BDL (DL=5)	BDL (DL=5)	BDL (DL=5)	Manual of Soil Testing, Ministry of Agriculture GoI
17	Available As	mg/Kg	2.1	1.8	1.1	0.15	4.2	3.1	Manual of Soil Testing , Ministry of Agriculture GoI
18	Available Cd	mg/Kg	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	Manual of Soil Testing , Ministry of Agriculture GoI
19	Available Cr	mg/Kg	41.1	44.2	34.4	2.2	37.8	41.4	Manual of Soil Testing , Ministry of Agriculture GoI
20	Available Cu	mg/Kg	22.4	23.3	31.1	18.4	19.5	18.3	Manual of Soil Testing , Ministry of Agriculture GoI
21	Available Pb	mg/Kg	5.4	5.8	6.1	12.2	5.1	5.9	Manual of Soil Testing , Ministry of Agriculture GoI
22	Available Mn	mg/kg	524	615	310	341	347	445	Manual of Soil Testing, Ministry of Agriculture GoI

23	Available Hg	mg/kg	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	Manual of Soil Testing, Ministry of Agriculture GoI
24	Available Ni	mg/kg	44.2	48.6	31.1	29.9	23.3	45.1	Manual of Soil Testing, Ministry of Agriculture GoI
25	Available Zn	mg/kg	31.1	25.4	21.1	184	7.2	18.2	Manual of Soil Testing, Ministry of Agriculture GoI

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Report No. SSWML/LAB/EIA/BEIL/SS/33-37	Date: 11.06.16	Page No.1/2

To	Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited
Type of Sample:	Soil Sample
Work Order No. & Date:	Email Request from EIA Division
Mode of Receipt of Sample:	Sampling by Laboratory
Date of Sampling:	12.3.16; 17.4.16; 15.5.16
Quantity, Packing, Identity	1 Kg Plastic Pouches, marked BEIL-SS-07- Bhadkodra, BEIL-SS-08- Motali, BEIL-SS-09-Gadkhol, BEIL-SS-10- Kosamdi, BEIL-SS-11-Umarwada,

S. No.	Parameters	Unit	Results					Test Method
			BEIL-SS-07	BEIL-SS-08	BEIL-SS-09	BEIL-SS-10	BEIL-SS-11	
1	Soil Texture	--	Loamy Sand	Clay Loam	Clay Loam	Clay Loam	Loamy Sand	Manual of Soil Testing, Ministry of Agriculture GoI
2	Sand	%	78.8	30.1	62.2	62.1	82.2	Manual of Soil Testing, Ministry of Agriculture GoI
3.	Clay	%	9.2	38.7	21	19	6.7	Manual of Soil Testing, Ministry of Agriculture GoI
4.	Silt	%	12	31.2	16.8	18.9	11.1	Manual of Soil Testing, Ministry of Agriculture GoI
5.	Bulk Density	g/cc	1.42	1.36	1.31	1.15	1.28	Manual of Soil Testing, Ministry of Agriculture GoI
6.	Porosity	%	20	22	22	20	20	Manual of Soil Testing, Ministry of Agriculture GoI
7.	Permeability	cm/hour	0.012	0.06	0.12	0.012	0.018	Manual of Soil Testing, Ministry of Agriculture GoI
8.	pH (1:2.5 at 25°C)	--	8.11	7.68	7.82	7.77	7.79	IS: 2720(Part 26)1987 R2011
9.	Conductivity (1:2.5 at 25°C)	µmhos/cm	138	244	121	172	144	IS 14767-2000
10	Organic Carbon	%	0.54	0.27	0.23	0.96	0.40	IS: 2720 P-22 1972 R 2010
11	Organic matter	%	0.93	0.47	0.40	1.65	0.68	IS: 2720 P-22 1972 R 2010
12	CEC	meq/100 g	134.00	142.00	110.00	102.00	124.00	Manual of Soil Testing , Ministry of Agriculture GoI
13	Available N	mg/kg	98.00	95.00	55.00	58.00	101.00	Manual of Soil Testing , Ministry of Agriculture GoI
14	Available Phosphorus	mg/kg	17.68	0.8	0.88	8.8	4.8	Manual of Soil Testing , Ministry of Agriculture GoI
15	Available Potassium	mg/kg	46.8	89.3	35.4	51.1	93.1	Manual of Soil Testing, Ministry of Agriculture GoI
16	PAH	mg/kg	BDL (DL=5)	BDL (DL=5)	BDL (DL=5)	BDL (DL=5)	BDL (DL=5)	Manual of Soil Testing, Ministry of Agriculture GoI
17	Available As	mg/Kg	2.2	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	Manual of Soil Testing , Ministry of Agriculture GoI
18	Available Cd	mg/Kg	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	Manual of Soil Testing , Ministry of Agriculture GoI
19	Available Cr	mg/Kg	51.1	19.5	BDL (DL=0.1)	34.5	37.1	Manual of Soil Testing , Ministry of Agriculture GoI
20	Available Cu	mg/Kg	11.4	15.5	10.1	22.1	26.7	Manual of Soil Testing , Ministry of Agriculture GoI
21	Available Pb	mg/Kg	6.1	6.2	BDL (DL=0.1)	5.4	4.8	Manual of Soil Testing , Ministry of Agriculture GoI
22	Available Mn	mg/kg	611	468	5	878	836	Manual of Soil Testing, Ministry of Agriculture GoI

23	Available Hg	mg/kg	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	BDL (DL=0.1)	Manual of Soil Testing, Ministry of Agriculture GoI
24	Available Ni	mg/kg	34.4	21.1	BDL (DL=0.1)	41.1	43.5	Manual of Soil Testing, Ministry of Agriculture GoI
25	Available Zn	mg/kg	15.4	11.2	3.4	11.2	24.4	Manual of Soil Testing, Ministry of Agriculture GoI

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Analyzed by

Anuradha

Authorized Signatory
(Technical Manager)
SANJAY SHARMA

Shivalik Solid Waste Management Limited

(LABORATORY DIVISION)

Regd. Office : Village Majra, P.O. Dabhota, Teh. Nalagarh, Distt. Solan, Himachal Pradesh – 174 101

CIN:U33130HP2005PLC028806 Telefax : 01795-260427, E-mail : rajeev.thakur@tatvaglobal.com

TEST CERTIFICATE

Report No. SSWML/LAB/EIA/BEIL/SW/23-26	**Date :11.06.16**	**Page No.1/2**

To	Enhancement of capacity change in configuration of the incinerator installed at Common Hazardous Waste Treatment, Storage and Disposal Facilities GIDC Ankleshwar, Dist. Bharuch, Gujarat by M/s Bharuch Enviro Infrastructure Limited
Type of Sample:	Surface Water
Work Order No. & Date:	Email by EIA Division
Quantity, Packing, Identity	2.5 L Plastic Bottle + 300 mL Sterilized Glass Bottle, water marked BEIL-SW-01 - GNFC Pond, BEIL-SW-02 -GSFC Pond, BEIL-SW-03- Umarwada,BEIL-SW-04- Narmada River.
Mode of Receipt of Sample:	Sampling by Laboratory
Date of Sampling:	12.3.16; 17.4.16; 15.5.16

S. No.	Parameters	Units	Results				Method Reference
			BEIL-SW-01	BEIL-SW-02	BEIL-SW-03	BEIL-SW-04	
1.	pH	--	7.61	7.73	7.54	7.79	APHA-4500H+-B,22nd Ed. 2012
2.	Total Solids	mg/L	231	265	452	309	APHA 2540 B,22nd Ed. 2012
3.	Total Suspended Solids	mg/L	12	9	6	8	APHA 2540 D,22nd Ed. 2012
4.	TDS	mg/L	219	256	446	301	APHA-2540-C,22nd Ed. 2012
5.	DO	mg/l	6.4	6.1	6.3	6.9	APHA 4500-O B,22nd Ed. 2012
6.	COD	mg/L	7.88	7.05	9.13	7.47	APHA 5220 B,22nd Ed. 2012
7.	BOD	mg/L	<3	<3	<3	<3	IS:3025(P 44)
8.	Oil & Grease	mg/L	<1	<1	<1	<1	APHA 5520 B,22nd Ed. 2012
9.	Calcium	mg/l	16	18	22	20	APHA 3500 Ca B,22nd Ed. 2012
10.	Magnesium	mg/L	12	12	12	14	APHA 3500 MgB,22ndEd. 2012
11.	Chloride	mg/L	20.39	22.08	23.78	35.67	APHA-4500 ClB, 22nd Ed. 2012
12.	Sulphate (SO_4) mg/L	mg/L	17.11	12.21	22.34	20.18	IS:3025(P 24)
13.	Nitrate (NO_3) mg/L	mg/L	1.41	2.22	2.31	2.18	APHA 4500-NO_3^-B,22nd Ed. 2012
14.	Fluoride (aF) mg/l	mg/L	0.10	0.12	0.11	0.14	APHA 4500-F^-D,22nd Ed. 2012
15	NH3 (Total ammonia-N) mg/l	mg/L	0.11	0.12	0.08	0.13	APHA 4500-NH_3 B,C,22nd Ed. 2012

16.	Cyanide (as CN)	mg/L	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)	IS:3025(P:27):2003
17.	Phenolic Compounds(as C_6H_5OH)	mg/l	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)	IS:3025(P 43)
18	Boron (as B)	mg/L	BDL (DL-0.2)	BDL (DL-0.2)	BDL (DL-0.2)	BDL (DL-0.2)	APHA 4500-B B,22nd Ed. 2012
19.	Total Arsenic(as As)	mg/l	BDL (DL=0.009)	BDL (DL=0.009)	BDL (DL=0.009)	BDL (DL=0.009)	APHA 3113 B,22nd Ed. 2012
20.	Copper (as Cu)	mg/L	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)	BDL (DL=0.02)	APHA 3111 B,22nd Ed. 2012
21.	Total Chromium(as Cr)	mg/L	BDL (DL=0.04)	BDL (DL=0.04)	BDL (DL=0.04)	BDL (DL=0.04)	APHA 3111 B,22nd Ed. 2012
22.	Cadmium(as Cd)	mg/l	BDL (DL=0.003)	BDL (DL=0.003)	BDL (DL=0.003)	BDL (DL=0.003)	APHA 3111 B,22nd Ed. 2012
23.	Iron (as Fe)	mg/L	0.09	0.11	0.12	0.12	APHA 3111 B,22nd Ed. 2012
24.	Lead (as Pb)	mg/L	BDL (DL=0.008)	BDL (DL=0.008)	BDL (DL=0.008)	BDL (DL=0.008)	APHA 3111 B,22nd Ed. 2012
25.	Manganese (as Mn)	mg/l	BDL (DL=0.09)	BDL (DL=0.09)	BDL (DL=0.09)	BDL (DL=0.09)	APHA 3111 B,22nd Ed. 2012
26.	Mercury (as Hg)	mg/l	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)	BDL (DL=0.001)	APHA 3112 B,22nd Ed. 2012
27.	Nickel (Ni)	mg/l	BDL (DL=0.01)	BDL (DL=0.01)	BDL (DL=0.01)	BDL (DL=0.01)	APHA 3111 B,22nd Ed. 2012
28.	Zinc (as Zn)	mg/L	0.11	0.13	0.14	0.15	APHA 3111 B,22nd Ed. 2012
29.	Total Coliform	MPN/100 ml	32	36	58	70	APHA 9221 E,22nd Ed. 2012
30.	Fecal Coliform	---	6	9	22	32	APHA 9221-E,22nd Ed. 2012

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