



ITS TESTING LABORATORY PRIVATE LIMITED

Laboratory: A-114, Sector-80, Phase-II Noida, Gautam Budh Nagar - 201305, (U.P.)

(An ISO 9001: 2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory)

Website: www.itslab.in, Email: itlrlab@gmail.com, info@itslab.in, contact@itslab.in

+91 9911659800, 9305780312, 09958849764



Report Code: AAQ-281223-45, Page No. – 1 of 11

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-281223-45	06-01-2024

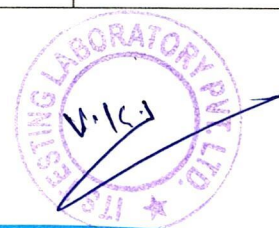
Issue To : SKS – RCPL - JV (S.K.S. Infra Projects Pvt. Ltd. & Ramiya Construction Pvt. Ltd.)

Project Name Location: Sand Mining Project Block – 43 (Gaya Lilajan-01, 02, 03) Sand Ghat on Lilajan River, at Village- Ratnara Ganga Bigha, Amwan, Hathiyara, Mocharim & Nima, Tehsil/Anchal- Bodh Gaya, District- Gaya, State-Bihar

Sampling & Analysis

Sample Description	: Ambient Air
Sampling Plan & Procedure	: SOP-AAQ/10
Sampling Instrument Used	: RDS(PM10), Fine Particulate Sampler(PM2.5) & Gaseous Attachment

S. No.	Date	Particulate Matter PM10 ($\mu\text{g}/\text{m}^3$)	Particulate Matter PM2.5 ($\mu\text{g}/\text{m}^3$)	Sulphur Dioxide SO_2 ($\mu\text{g}/\text{m}^3$)	Nitrogen Dioxide NO_2 ($\mu\text{g}/\text{m}^3$)
		IS:5182(Part-23)	IS:5182(Part-24)	IS:5182(Part-2)	IS:5182(Part-6)
1	02-10-2023	61.78	43.60	12.60	15.51
2	06-10-2023	72.90	48.65	9.62	10.45
3	11-10-2023	85.29	44.54	11.59	15.60
4	15-10-2023	71.40	40.12	8.67	11.66
5	19-10-2023	79.20	46.20	12.85	12.58
6	23-10-2023	75.61	41.25	10.40	9.60
7	26-10-2023	83.40	44.80	8.95	10.53
8	29-10-2023	71.30	45.60	12.34	15.95
9	01-11-2023	84.70	53.52	9.21	12.25
10	05-11-2023	76.54	43.85	10.50	9.56
11	08-11-2023	80.60	52.91	9.56	12.55
12	12-11-2023	85.73	46.50	12.36	9.55
13	16-11-2023	78.50	43.65	8.85	13.56
14	20-11-2023	71.40	48.85	12.40	10.02
15	24-11-2023	69.84	40.78	6.31	14.60
16	27-11-2023	77.60	44.84	10.50	9.85
17	02-12-2023	79.96	41.45	7.46	16.59
18	05-12-2023	71.40	46.52	10.21	14.65
19	08-12-2023	82.50	41.50	13.56	9.95
20	12-12-2023	73.93	42.25	11.60	15.62
21	15-12-2023	85.50	44.96	9.68	10.56
22	18-12-2023	73.60	49.63	13.45	13.67
23	21-12-2023	80.52	48.56	12.50	9.45
24	25-12-2023	82.10	44.98	10.21	14.22
Minimum		61.78	40.12	6.31	9.45
Maximum		85.73	53.52	13.56	16.59
Average		77.30	45.40	10.64	12.44
98 th Percentile		85.62	53.24	13.51	16.30
NAAQS, For 24 Hourly Monitoring		100.0	60.0	80.0	80.0



Terms & Conditions :

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Report Code: AAQ-281223-45, Page No. – 2 of 11

S.No	Date	Particulate Matter PM10 ($\mu\text{g}/\text{m}^3$)	Particulate Matter PM2.5 ($\mu\text{g}/\text{m}^3$)	Sulphur Dioxide SO ₂ ($\mu\text{g}/\text{m}^3$)	Nitrogen Dioxide NO ₂ ($\mu\text{g}/\text{m}^3$)
		IS:5182(Part-23)	CPCB Volume – 1 Gravimetric	IS:5182(Part-2)	IS:5182(Part-6)
1	02-10-2023	81.45	42.78	12.57	8.58
2	06-10-2023	72.56	50.89	9.68	10.44
3	11-10-2023	84.62	47.31	11.34	14.52
4	15-10-2023	72.56	41.34	7.19	9.23
5	19-10-2023	85.20	52.59	13.78	10.58
6	23-10-2023	75.20	45.7	10.50	9.70
7	26-10-2023	82.40	53.39	9.23	12.57
8	29-10-2023	76.80	48.12	12.45	14.59
9	01-11-2023	81.06	51.49	9.86	13.25
10	05-11-2023	75.54	47.40	11.55	9.34
11	08-11-2023	85.70	49.61	9.78	12.65
12	12-11-2023	80.65	45.90	12.23	9.78
13	16-11-2023	73.32	51.35	8.85	13.52
14	20-11-2023	84.12	42.21	11.45	10.58
15	24-11-2023	72.84	52.64	9.12	14.60
16	27-11-2023	85.56	50.38	11.50	9.67
17	02-12-2023	68.20	47.43	8.57	14.85
18	05-12-2023	75.90	43.30	10.50	12.68
19	08-12-2023	83.95	40.90	12.70	10.46
20	12-12-2023	60.30	49.16	13.60	14.23
21	15-12-2023	84.50	52.32	9.93	11.52
22	18-12-2023	77.36	49.50	12.45	13.13
23	21-12-2023	82.70	51.80	15.57	9.45
24	25-12-2023	79.10	46.30	9.30	12.45
Minimum		60.3	40.9	7.19	8.58
Maximum		85.7	53.39	15.57	14.85
Average		78.40	48.08	10.99	11.77
98 th Percentile		85.64	53.05	14.75	14.74
NAAQS, For 24 Hourly Monitoring		100.0	60.0	80.0	80.0



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Report Code: AAQ-281223-45, Page No. – 3 of 11

S.No	Date	Particulate Matter PM10 ($\mu\text{g}/\text{m}^3$)	Particulate Matter PM2.5 ($\mu\text{g}/\text{m}^3$)	Sulphur Dioxide SO ₂ ($\mu\text{g}/\text{m}^3$)	Nitrogen Dioxide NO ₂ ($\mu\text{g}/\text{m}^3$)
		IS:5182(Part-23)	CPCB Volume – 1 Gravimetric	IS:5182(Part-2)	IS:5182(Part-6)
1	02-10-2023	72.87	50.35	7.12	13.20
2	06-10-2023	83.24	46.50	8.99	9.80
3	11-10-2023	61.83	51.85	6.45	14.21
4	15-10-2023	80.55	49.50	7.15	9.45
5	19-10-2023	65.80	43.90	8.76	13.18
6	23-10-2023	85.22	50.65	9.45	12.78
7	26-10-2023	66.32	49.80	6.48	8.98
8	29-10-2023	85.56	44.85	8.96	12.33
9	01-11-2023	76.78	48.50	6.32	12.65
10	05-11-2023	85.17	53.98	7.45	9.80
11	08-11-2023	64.23	41.04	6.87	12.52
12	12-11-2023	75.56	46.98	8.99	7.45
13	16-11-2023	85.56	52.98	6.49	11.54
14	20-11-2023	77.58	48.56	8.35	9.52
15	24-11-2023	72.89	42.54	6.37	12.95
16	27-11-2023	60.25	53.90	4.95	10.49
17	02-12-2023	84.66	47.45	7.45	13.40
18	05-12-2023	79.65	45.65	6.56	10.65
19	08-12-2023	85.34	46.90	9.50	11.80
20	12-12-2023	78.54	40.25	7.65	9.74
21	15-12-2023	81.69	50.54	6.50	9.20
22	18-12-2023	69.78	42.90	5.45	10.51
23	21-12-2023	76.51	44.12	6.44	11.40
24	25-12-2023	81.40	52.57	9.10	14.20
Minimum		60.25	40.25	4.95	7.45
Maximum		85.56	53.98	9.5	14.21
Average		76.54	47.76	7.41	11.32
98 th Percentile		85.56	53.94	9.48	14.21
NAAQS, For 24 Hourly Monitoring		100.0	60.0	80.0	80.0

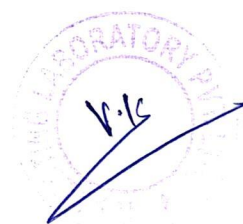


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Report Code: AAQ-281223-45, Page No. – 4 of 11

S.No	Date	Particulate Matter PM10 ($\mu\text{g}/\text{m}^3$)	Particulate Matter PM2.5 ($\mu\text{g}/\text{m}^3$)	Sulphur Dioxide SO ₂ ($\mu\text{g}/\text{m}^3$)	Nitrogen Dioxide NO ₂ ($\mu\text{g}/\text{m}^3$)
		IS:5182(Part-23)	CPCB Volume – 1 Gravimetric	IS:5182(Part-2)	IS:5182(Part-6)
1	02-10-2023	67.80	43.35	7.17	12.78
2	06-10-2023	81.63	48.50	7.82	9.85
3	11-10-2023	76.50	41.38	6.78	13.25
4	15-10-2023	81.54	50.50	7.57	9.78
5	19-10-2023	66.24	49.11	8.96	7.34
6	23-10-2023	80.22	46.54	8.34	11.29
7	26-10-2023	69.22	42.35	7.76	7.89
8	29-10-2023	83.14	45.48	7.84	9.30
9	01-11-2023	74.68	48.36	6.58	11.58
10	05-11-2023	84.99	49.85	5.45	9.75
11	08-11-2023	65.45	45.94	6.34	12.48
12	12-11-2023	79.36	52.98	4.99	8.85
13	16-11-2023	83.90	42.56	6.65	10.598
14	20-11-2023	62.32	51.75	9.85	11.78
15	24-11-2023	80.40	46.56	6.78	12.34
16	27-11-2023	76.85	41.35	8.12	9.40
17	02-12-2023	85.57	40.65	6.69	10.21
18	05-12-2023	62.28	43.65	7.56	10.10
19	08-12-2023	82.37	49.52	8.60	12.87
20	12-12-2023	70.50	42.25	7.50	7.40
21	15-12-2023	81.70	47.54	6.71	9.25
22	18-12-2023	62.45	49.90	5.85	11.50
23	21-12-2023	76.50	42.89	5.17	13.41
24	25-12-2023	80.45	45.88	4.80	8.30
Minimum		62.28	40.65	4.8	7.34
Maximum		85.57	52.98	9.85	13.41
Average		75.67	46.20	7.08	10.47
98 th Percentile		85.30	52.41	9.44	13.34
NAAQS, For 24 Hourly Monitoring		100.0	60.0	80.0	80.0



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Report Code: AAQ-281223-45, Page No. – 5 of 11

S.No	Date	Particulate Matter PM2.5 ($\mu\text{g} / \text{m}^3$)	Particulate Matter PM10 ($\mu\text{g} / \text{m}^3$)	Sulphur Dioxide SO ₂ ($\mu\text{g} / \text{m}^3$)	Nitrogen Dioxide NO ₂ ($\mu\text{g} / \text{m}^3$)
		IS:5182(Part-24)	IS:5182(Part-23)	IS:5182(Part-2)	IS:5182(Part-6)
1	02-10-2023	46.2	80.24	5.7	11.8
2	06-10-2023	45.8	78.42	7.2	14.7
3	11-10-2023	43.2	80.32	8.2	15.8
4	15-10-2023	47.7	85.69	9.8	19.2
5	19-10-2023	49.6	82.66	7.5	16.8
6	23-10-2023	55.8	76.42	7.8	13.8
7	26-10-2023	52.3	54.69	8.4	13.2
8	29-10-2023	41.6	70.23	5.9	18.9
9	01-11-2023	45.7	42.76	7.5	21.8
10	05-11-2023	56.8	80.00	7.9	19.7
11	08-11-2023	54.5	97.04	5.2	17.8
12	12-11-2023	50.9	93.35	6.7	20.6
13	16-11-2023	49.1	80.89	7.0	17.6
14	20-11-2023	48.8	91.62	8.1	19.2
15	24-11-2023	40.2	95.23	9.7	20.9
16	27-11-2023	53.0	80.23	13.6	28.5
17	02-12-2023	54.8	82.78	9.0	24.6
18	05-12-2023	49.2	86.82	11.2	20.8
19	08-12-2023	56.7	70.36	9.2	16.7
20	12-12-2023	53.2	75.8	10.2	16.2
21	15-12-2023	47.3	62.34	7.6	14.2
22	18-12-2023	58.8	78.56	9.8	19.2
23	21-12-2023	51.4	76.93	7.5	19.9
24	25-12-2023	49.2	67.57	6.9	14.2
Minimum		40.2	42.76	5.2	11.8
Maximum		58.8	97.04	13.6	28.5
Average		50.08	77.96	8.23	18.17
98 th Percentile		57.88	96.21	12.50	26.71
NAAQS, For 24 Hourly Monitoring		60.0	100.0	80.0	80.0



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Report Code: AAQ-281223-45, Page No. – 6 of 11

S.No	Date	Particulate Matter PM2.5 ($\mu\text{g}/\text{m}^3$)	Particulate Matter PM10 ($\mu\text{g}/\text{m}^3$)	Sulphur Dioxide SO ₂ ($\mu\text{g}/\text{m}^3$)	Nitrogen Dioxide NO ₂ ($\mu\text{g}/\text{m}^3$)
		IS:5182(Part-24)	IS:5182(Part-23)	IS:5182(Part-2)	IS:5182(Part-6)
1	02-10-2023	46.4	78.3	7.6	15.9
2	06-10-2023	51.4	71.5	8.1	17.2
3	11-10-2023	55.2	74.2	7.6	14.8
4	15-10-2023	58.4	79.9	10.8	19.2
5	19-10-2023	44.7	81.8	8.7	18.7
6	23-10-2023	45.9	77.1	5.9	22.1
7	26-10-2023	52.2	72.3	6.2	20.1
8	29-10-2023	53.6	68.5	9.8	19.3
9	01-11-2023	58.3	82.4	5.4	15.8
10	05-11-2023	46.2	88.3	8.4	16.3
11	08-11-2023	42.4	81.7	5.9	17.9
12	12-11-2023	57.4	70.4	10.2	15.5
13	16-11-2023	45.9	73.5	8.7	14.3
14	20-11-2023	44.7	86.6	6.4	18.1
15	24-11-2023	57.9	79.2	11.7	16.7
16	27-11-2023	50.3	74.8	10.5	19.2
17	02-12-2023	53.7	86.3	8.8	21.1
18	05-12-2023	54.2	80.4	9.3	17.6
19	08-12-2023	56.8	77.5	12.7	20.7
20	12-12-2023	44.2	73.6	6.3	19.2
21	15-12-2023	50.1	70.3	7.5	18.2
22	18-12-2023	43.9	56.5	9.2	21.5
23	21-12-2023	46.3	83.4	10.2	19.1
24	25-12-2023	52.6	60.3	8.9	21.4
Minimum		42.4	56.5	5.4	14.3
Maximum		58.4	88.3	12.7	22.1
Average		50.53	76.20	8.53	18.33
98 th Percentile		58.35	87.52	12.24	21.82
NAAQS, For 24 Hourly Monitoring		60.0	100.0	80.0	80.0

ITS TESTING LABORATORY PRIVATE LIMITED
V.12

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		IS:5182(Part-24)	IS:5182(Part-23)	IS:5182(Part-2)	IS:5182(Part-6)
1	02-10-2023	43.2	71.1	6.5	12.6
2	06-10-2023	40.5	77.7	7.9	14.7
3	11-10-2023	54.3	73.2	8.4	10.3
4	15-10-2023	47.6	79.5	9.7	18.4
5	19-10-2023	42.1	80.9	7.2	19.2
6	23-10-2023	48.7	89.2	6.8	17.8
7	26-10-2023	51.7	81.8	8.4	15.4
8	29-10-2023	55.3	79.2	6.1	13.2
9	01-11-2023	47.8	90.9	5.8	19.7
10	05-11-2023	51.4	91.5	9.4	17.1
11	08-11-2023	56.9	94.3	6.8	20.5
12	12-11-2023	52.3	80.2	10.6	17.9
13	16-11-2023	48.5	83.6	8.1	16.2
14	20-11-2023	53.2	88.9	9.3	19.6
15	24-11-2023	56.8	82.9	12.8	21.4
16	27-11-2023	51.5	89.3	11.6	15.6
17	02-12-2023	54.2	72.7	10.8	18.8
18	05-12-2023	48.5	75.5	8.4	13.2
19	08-12-2023	52.2	83.7	6.1	15.4
20	12-12-2023	44.7	79.8	10.5	14.9
21	15-12-2023	47.8	80.2	8.7	17.2
22	18-12-2023	53.3	74.5	9.8	13.9
23	21-12-2023	52.8	82.3	11.2	17.6
24	25-12-2023	49.3	90.6	10.2	12.4
Minimum		40.5	71.1	5.8	10.3
Maximum		56.9	94.3	12.8	21.4
Average		50.19	82.23	8.80	16.38
98 th Percentile		56.85	93.01	12.25	20.99
NAAQS, For 24 Hourly Monitoring		60.0	100.0	80.0	80.0



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S.No	Date	Particulate Matter PM2.5 ($\mu\text{g}/\text{m}^3$)	Particulate Matter PM10 ($\mu\text{g}/\text{m}^3$)	Sulphur Dioxide SO ₂ ($\mu\text{g}/\text{m}^3$)	Nitrogen Dioxide NO ₂ ($\mu\text{g}/\text{m}^3$)
		IS:5182(Part-24)	IS:5182(Part-23)	IS:5182(Part-2)	IS:5182(Part-6)
1	02-10-2023	40.6	56.45	5.6	17.3
2	06-10-2023	52.6	80.48	5.2	18.4
3	11-10-2023	48.4	87.35	7.8	14.6
4	15-10-2023	44.3	83.50	8.9	20.3
5	19-10-2023	41.8	89.70	8.3	19.8
6	23-10-2023	45.5	72.40	9.9	14.9
7	26-10-2023	47.9	91.52	9.2	10.2
8	29-10-2023	49.6	79.52	6.5	10.3
9	01-11-2023	50.7	88.2	10.0	11.9
10	05-11-2023	52.5	95.4	11.7	15.8
11	08-11-2023	57.5	78.30	8.9	20.6
12	12-11-2023	42.8	92.57	9.8	17.4
13	16-11-2023	48.5	89.50	10.2	19.9
14	20-11-2023	52.2	74.29	11.1	18.5
15	24-11-2023	55.6	60.80	6.8	17.9
16	27-11-2023	58.4	84.41	13.8	20.1
17	02-12-2023	57.7	68.12	11.9	21.2
18	05-12-2023	52.7	73.90	8.3	15.5
19	08-12-2023	52.5	56.65	6.7	14.5
20	12-12-2023	47.8	70.43	7.2	16.3
21	15-12-2023	46.6	46.58	8.0	16.0
22	18-12-2023	55.2	79.67	5.8	18.0
23	21-12-2023	54.4	49.70	5.1	18.0
24	25-12-2023	49.7	98.21	8.4	15.6
Minimum		40.6	46.58	5.1	10.2
Maximum		58.4	98.21	13.8	21.2
Average		50.23	76.99	8.55	16.79
98 th Percentile		58.08	96.92	12.93	20.92
NAAQS, For 24 Hourly Monitoring		60.0	100.0	80.0	80.0



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Report Code: AAQ-281223-45, Page No. – 9 of 11

S.No	Date	Particulate Matter PM2.5 ($\mu\text{g}/\text{m}^3$)	Particulate Matter PM10 ($\mu\text{g}/\text{m}^3$)	Sulphur Dioxide SO ₂ ($\mu\text{g}/\text{m}^3$)	Nitrogen Dioxide NO ₂ ($\mu\text{g}/\text{m}^3$)
		IS:5182(Part-24)	IS:5182(Part-23)	IS:5182(Part-2)	IS:5182(Part-6)
1	02-10-2023	52.14	66.76	5.85	11.48
2	06-10-2023	46.50	79.16	6.94	9.86
3	11-10-2023	49.77	65.14	5.96	12.54
4	15-10-2023	52.65	80.10	7.65	9.73
5	19-10-2023	40.38	76.83	9.85	7.08
6	23-10-2023	44.65	60.14	7.34	11.20
7	26-10-2023	51.85	68.75	9.51	8.02
8	29-10-2023	46.80	59.70	10.23	7.50
9	01-11-2023	40.28	76.42	11.85	11.62
10	05-11-2023	49.67	62.14	7.54	7.57
11	08-11-2023	52.02	78.37	6.55	11.15
12	12-11-2023	46.90	65.50	4.34	6.90
13	16-11-2023	45.50	75.78	6.68	10.56
14	20-11-2023	45.60	66.32	7.13	9.80
15	24-11-2023	52.64	74.34	6.61	12.58
16	27-11-2023	49.68	72.36	5.56	9.42
17	02-12-2023	50.25	79.25	6.55	11.60
18	05-12-2023	49.71	69.18	4.59	10.10
19	08-12-2023	42.82	80.16	6.65	11.40
20	12-12-2023	51.60	79.54	4.34	6.99
21	15-12-2023	44.65	78.70	6.54	9.20
22	18-12-2023	52.96	69.45	5.90	11.58
23	21-12-2023	45.80	76.48	4.65	10.50
24	25-12-2023	43.50	63.50	5.97	8.65
Minimum		40.28	59.7	4.34	6.9
Maximum		52.96	80.16	11.85	12.58
Average		47.85	71.84	6.87	9.88
98 th Percentile		52.82	80.13	11.10	12.56
NAAQS, For 24 Hourly Monitoring		60.0	100.0	80.0	80.0



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Report Code: AAQ-281223-45, Page No. – 10 of 11

S.No	Date	Particulate Matter PM2.5 ($\mu\text{g}/\text{m}^3$)	Particulate Matter PM10 ($\mu\text{g}/\text{m}^3$)	Sulphur Dioxide SO ₂ ($\mu\text{g}/\text{m}^3$)	Nitrogen Dioxide NO ₂ ($\mu\text{g}/\text{m}^3$)
		IS:5182(Part-24)	IS:5182(Part-23)	IS:5182(Part-2)	IS:5182(Part-6)
1	02-10-2023	40.12	65.23	10.8	14.8
2	06-10-2023	47.0	69.53	8.5	12.6
3	11-10-2023	56.32	72.34	7.5	17.2
4	15-10-2023	49.7	80.52	9.9	16.8
5	19-10-2023	51.9	62.54	6.4	18.1
6	23-10-2023	56.3	78.23	7.9	18.5
7	26-10-2023	31.4	63.86	10.5	20.9
8	29-10-2023	46.8	78.35	9.0	17.3
9	01-11-2023	49.2	71.34	6.2	15.9
10	05-11-2023	51.7	76.21	8.1	17.9
11	08-11-2023	50.7	72.44	5.9	19.2
12	12-11-2023	58.8	80.2	8.7	16.0
13	16-11-2023	52.3	86.5	10.5	13.4
14	20-11-2023	43.8	85.13	7.9	11.9
15	24-11-2023	40.23	79.50	12.25	19.5
16	27-11-2023	42.8	69.30	6.5	18.8
17	02-12-2023	43.9	73.20	7.5	21.2
18	05-12-2023	49.6	48.15	9.6	15.8
19	08-12-2023	53.8	70.10	11.2	13.2
20	12-12-2023	49.3	79.31	8.5	18.8
21	15-12-2023	57.3	83.84	13.2	21.4
22	18-12-2023	42.8	70.50	14.9	18.3
23	21-12-2023	49.5	86.23	12.8	22.5
24	25-12-2023	46.1	78.81	10.5	18.9
Minimum		40.12	48.15	5.9	11.9
Maximum		58.8	86.5	14.9	22.5
Average		48.75	74.22	9.36	17.45
98 th Percentile		58.11	86.38	14.12	21.99
NAAQS, For 24 Hourly Monitoring		60.0	100.0	80.0	80.0



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Report Code: AAQ-281223-45, Page No. – 11 of 11

Free SiO₂:

SiO ₂	AAQ-1	AAQ-2	AAQ-3	AAQ-4	AAQ-5
Maximum	0.98	0.78	0.85	0.59	0.79
Minimum	0.85	0.81	0.61	0.72	0.65

SiO ₂	AAQ-6	AAQ-7	AAQ-8	AAQ-9	AAQ-10
Maximum	0.96	0.88	0.89	0.93	0.89
Minimum	0.81	0.84	0.65	0.74	0.64

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Test Report of	Report Code	Date of Issue
Ambient Noise	N-151223-45	06-01-2024

Issue To : SKS – RCPL - JV (S.K.S. Infra Projects Pvt. Ltd. & Ramiya Construction Pvt. Ltd.)
Project Name Location : Sand Mining Project Block – 43 (Gaya Lilajan-01, 02, 03) Sand Ghat on Lilajan River, at Village- Ratnara Ganga Bigha, Amwan, Hathiyara, Mocharim & Nima, Tehsil/Anchal- Bodh Gaya, District- Gaya, State-Bihar

Sampling & Analysis Data

Sample Drawn by : Laboratory (ITS)
Sample Quantity : 24 Hrs
Sample Description : Ambient Noise

S.No.	PROJECT SITE	ZONE	Leq LIMIT (as per CPCB Guidelines), in dB(A)		Leq Value monitored, in dB(A)	
			DAY*	NIGHT*	DAY*	NIGHT*
1	NQ-1	Industrial Zone (Project Site)	75	70	55.65	46.85
2	NQ-2	Residential Zone	55	45	56.45	46.57
3	NQ-3	Residential Zone	55	45	55.13	43.65
4	NQ-4	Residential Zone	55	45	42.65	38.25
5	NQ-5	Residential Zone	55	45	40.26	38.64
6	NQ-6	Residential Zone	55	45	41.32	32.15
7	NQ-7	Residential Zone	55	45	40.65	40.21

* Day time Leq in dB(A) (6.00AM TO 10.00PM)
Night time Leq in dB(A) (10.00PM TO 6.00AM)

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Test Report of	Report Code	Date of Issue
Soil	SL-151223-45	06-01-2024

Issue To : SKS – RCPL - JV (S.K.S. Infra Projects Pvt. Ltd. & Ramiya Construction Pvt. Ltd.)
Project Name Location : Sand Mining Project Block – 43 (Gaya Lilajan-01, 02, 03) Sand Ghat on Lilajan River, at Village- Ratnara Ganga Bigha, Amwan, Hathiyara, Mocharim & Nima, Tehsil/Anchal- Bodh Gaya, District- Gaya, State-Bihar

Sampling & Analysis Data

Sample Drawn by : Laboratory (ITS)
Sample Quantity : 2Kg (ZIP Polyethylene Bag)
Sample Description : Soil sample

Physico-chemical properties of soil

S.No	Parameter	Units	Result			
			Location			
			SQ-1	SQ-2	SQ-3	SQ-4
1	Texture	-	Clay Loam to Silty Loam	Clay Loam	Clay Loam	Clay Loam
	Sand	%	30.52	46.15	41.46	41.76
	Clay	%	34.61	37.62	30.24	36.64
	Silt	%	32.18	15.51	23.59	20.42
2	pH(1:2.5 Suspension)	-	7.05	7.04	6.95	7.14
3	Electrical Conductivity	μmhos/cm	328.58	456.2	434.8	354.9
4	Potassium (as K)	mg/kg	169.2	137.60	572.59	174.18
5	Sodium (as Na)	mg/kg	219.65	195.47	152.15	168.05
6	Calcium (as Ca)	mg/kg	4325.56	3001.52	3240.65	2855.35
7	Magnesium (as Mg)	mg/kg	554.35	684.80	585.84	754.95
8	Sodium Absorption Ratio	-	0.65	0.84	0.82	0.96
9	Water Holding Capacity	%	33.64	30.65	32.44	31.05
10	Total Kjeldahl Nitrogen	%	0.098	0.079	0.069	0.087
11	Phosphorous	mg/kg	50.05	62.15	54.05	51.05
12	Bulk Density	gm/cc	1.64	1.45	1.69	1.18
13	Organic Matter	%	1.89	0.35	1.95	1.55
14	Porosity	%	32.02	37.45	32.05	34.50


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Report Code: GW-151223-45, Page No. – 1 of 2

Test Report	Report Code	Date of Issue
Ground Water Analysis	GW-151223-45	06-01-2024

Issue To : SKS – RCPL - JV (S.K.S. Infra Projects Pvt. Ltd. & Ramiya Construction Pvt. Ltd.)
Project Name Location: Sand Mining Project Block – 43 (Gaya Lilajan-01, 02, 03) Sand Ghat on Lilajan
River, at Village- Ratnara Ganga Bigha, Amwan, Hathiyara, Mocharim &
Nima, Tehsil/Anchal- Bodh Gaya, District- Gaya, State-Bihar

Sample Received On : 15/12/2023
Sample Collected By : Laboratory (ITS)
Sample Description : Ground Water
Sample Quantity : 2.0 Lt. in pet bottle & 500ml sterilizes glass Bottle
Weather Conditions : Normal
Analysis Duration : 15/12/2023 To 06/01/2024

Test Results

Test Results								
S. No.	Parameter	Results				Units	Acceptable Limit	Permissible Limit in the Absence of Alternate Source
		Location						
		GW-1	GW-2	GW-3	GW-4			
1	pH	6.85	7.42	7.56	7.75	-	6.5-8.5	-
2	Colour	<5.0	<5.0	<5.0	<5.0	Hazen	5	15
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable	Agreeable
4	Taste	Agreeable	Agreeable	Agreeable	Agreeable	-	Agreeable	Agreeable
5	Turbidity	<1.0	<1.0	<1.0	<1.0	NTU	1	5
6	Total Hardness (as CaCO ₃)	125	221	305	185	mg/l	200	600
7	Calcium(as Ca)	40	32	44	38.96	mg/l	75	200
8	Magnesium(as Mg)	28	26	30	65.39	mg/l	30	100
9	Chloride(as Cl)	40	32	44	154.8	mg/l	250	1000
10	Iron(as Fe)	0.22	0.17	0.34	0.64	mg/l	0.3	No Relaxation
11	Fluoride(as F)	0.7	0.7	0.8	0.6	mg/l	1	1.5
12	Free Residual chlorine	<0.1	<0.1	<0.1	<0.1	mg/l	0.2	1
13	Total Dissolved Solid	542	165	242	315	mg/l	500	2000
14	Phenolic Compound (as C ₆ H ₅ OH)	<0.001	<0.001	<0.001	<0.001	mg/l	0.001max	0.002 Max
15	Anionic Detergents (as MBAS)	<0.1	<0.1	<0.1	<0.1	mg/l	0.2	1.0
16	Sulphate (as SO ₄)	46.44	52.725	60.35	65.39	mg/l	200	400
17	Nitrate (as NO ₃)	5	6	4	6.35	mg/l	45	No Relaxation
18	Alkalinity(as CaCO ₃)	264	284	322	752	mg/l	200	600
19	Cadmium (as Cd)	<0.001	<0.001	<0.001	<0.001	mg/l	0.003	No Relaxation
20	Lead (as Pb)	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	No Relaxation
21	Total Chromium (as Cr)	<0.01	<0.01	<0.01	<0.01	mg/l	0.05	No Relaxation
22	Copper (as Cu)	<0.01	<0.01	<0.01	<0.01	mg/l	0.05	1.5
23	Total Ammonia	<0.5	<0.5	<0.5	<0.5	mg/l	0.5	No Relaxation
24	Nickel (as Ni)	<0.01	<0.01	<0.01	<0.01	mg/l	0.02	0.2
25	Zinc (as Zn)	0.78	0.60	0.85	0.85	mg/l	5	15

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Report Code: GW-151223-45, Page No. – 2 of 2

26	Chloramines (as Cl ₂)	< 1.0	< 1.0	< 1.0	< 1.0	mg/l	4	No Relaxation
27	Manganese (as Mn)	<0.1	<0.1	<0.1	<0.1	mg/l	0.1	0.3
28	Boron (as B)	<0.1	<0.1	<0.1	<0.1	mg/l	0.5	1
29	Selenium (Se)	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	No Relaxation
30	Arsenic (as As)	<0.01	<0.01	<0.01	<0.01	mg/l	0.01	0.05

RESULTS							
As per IS 10500:2012							
S. No.	Parameter	Test Method	Results			Units	Requirements
			GW-1	GW-2	GW3		
1	E.coli	IS-1622	Not Detected (<2)	Not Detected (<2)	Not Detected (<2)	E.Coli/100ml	Shall not be detectable in 100 ml sample
2	Total Coliform	IS-1622	Absent	Absent	Absent	MPN/100ml	Shall not be detectable in 100 ml sample


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Test Report of	Report Code	Date of Issue
Surface Water	SW-151223-45	06-01-2024

Issue To : SKS – RCPL - JV (S.K.S. Infra Projects Pvt. Ltd. & Ramiya Construction Pvt. Ltd.)
Project Name Location : Sand Mining Project Block – 43 (Gaya Lilajan-01, 02, 03) Sand Ghat on Lilajan River, at Village- Ratnara Ganga Bigha, Amwan, Hathiyara, Mocharim & Nima, Tehsil/Anchal- Bodh Gaya, District- Gaya, State-Bihar

Sampling & Analysis Data

Sample Drawn by : Laboratory (ITS)
Sample Quantity : 2litre In Pet Bottle and 500ml in sterilized glass Bottle
Sample Description : Surface Water

Physico-Chemical Properties of Surface Water

S.No	Parameter	SW-1 Lilajan River (Upstream)	SW-2 Lilajan River (Downstream)	Units
1	pH	7.42	6.08	-
2	Temperature	19.06	21.5	°C
3	Turbidity	15.5	18.5	NTU
4	Conductivity @25°C	412	621.20	µs/cm.
5	Total Suspended Solid	37.8	25.5	mg/l
6	Total Alkalinity (as CaCO ₃)	168	105	mg/l
7	Biological Oxygen Demand (Max.) (at 270C for 3 days)	5.05	6.25	mg/l
8	Dissolved Oxygen (as O ₂) Min.	5.54	6.06	mg/l
9	Calcium(as Ca)	59.60	21.05	mg/l
10	Magnesium(as Mg)	52.65	42.05	mg/l
11	Chloride(as Cl),Max	61.08	52.05	mg/l
12	Iron(as Fe),Max	0.68	0.99	mg/l
13	Fluoride(as F),Max	0.64	1.05	mg/l
14	Total Dissolved Solid	678	458	mg/l
15	Total Hardness (as CaCO ₃)	165.59	185.65	mg/l
16	Sulphate (as SO ₄)Max	22.25	19.5	mg/l
17	Phosphate (as P)	<0.1	<0.1	mg/l
18	Sodium (as Na)	52.58	27.19	mg/l
19	Manganese (as Mn)	<0.1	<0.1	mg/l
20	Total Chromiun (as Cr)	<0.05	<0.05	mg/l
21	Zinc (as Zn)	2.65	1.94	mg/l
22	Potassium (as K)	2.51	4.61	mg/l
23	Nitrate (as NO ₃),Max	<0.1	<0.1	mg/l
24	Cadmium (as Cd)	<0.01	<0.01	mg/l
25	Lead (as Pb)	<0.01	<0.01	mg/l
26	Copper (as Cu)	<0.01	<0.01	mg/l
27	Chemical Oxygen Demand (as O ₂)	36.21	42.12	mg/l
28	Arsenic (as As)	<0.01	<0.01	mg/l

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