



# 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: itrlclab@gmail.com, info@itslab.in, contact@itslab.in

+91 9911659800, 9305780312, 09958849764



Report Code: AAQ-281223-46, Page No. – 1 of 11

| Test Report of               | Report Code   | Date of Issue |
|------------------------------|---------------|---------------|
| Ambient Air Quality Analysis | AAQ-281223-46 | 05-01-2024    |

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

Project Name Location: Sand Mining Project Block – 44 (Gaya Lilajan-04, 05, 06) Sand Ghat on Lilajan River, at Nima, Gothu, Mocharim & Rajbar, Tehsil/Anchal- Bodh Gaya, Mohanpur, District- Gaya, State-Bihar

## Sampling & Analysis

Sample Description

:Ambient Air

Sampling Plan & Procedure

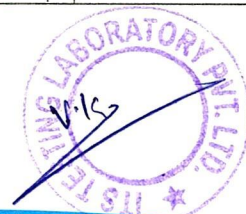
:SOP-AAQ/10

Sampling Instrument Used

:RDS(PM10), Fine Particulate Sampler(PM2.5)& Gaseous

Attachment

| Sr. No.                         | Date       | Particulate Matter PM2.5 ( $\mu\text{g}/\text{m}^3$ ) | Particulate Matter PM10 ( $\mu\text{g}/\text{m}^3$ ) | Sulphur Dioxide SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | Nitrogen Dioxide NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) |
|---------------------------------|------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
|                                 |            | IS:5182(Part-24)                                      | IS:5182(Part-23)                                     | IS:5182(Part-2)                                              | IS:5182(Part-6)                                               |
| 1                               | 02-10-2023 | 43.6                                                  | 77.2                                                 | 4.6                                                          | 12.2                                                          |
| 2                               | 06-10-2023 | 47.9                                                  | 69.4                                                 | 5.2                                                          | 16.9                                                          |
| 3                               | 11-10-2023 | 51.2                                                  | 75.5                                                 | 6.9                                                          | 17.7                                                          |
| 4                               | 15-10-2023 | 48.1                                                  | 82.4                                                 | 7.5                                                          | 10.4                                                          |
| 5                               | 19-10-2023 | 42.3                                                  | 87.2                                                 | 5.8                                                          | 12.4                                                          |
| 6                               | 23-10-2023 | 46.7                                                  | 89.5                                                 | 6.5                                                          | 15.8                                                          |
| 7                               | 26-10-2023 | 52.5                                                  | 82.6                                                 | 7.8                                                          | 19.6                                                          |
| 8                               | 29-10-2023 | 41.4                                                  | 88.4                                                 | 8.7                                                          | 14.4                                                          |
| 9                               | 01-11-2023 | 46.6                                                  | 97.2                                                 | 7.2                                                          | 19.5                                                          |
| 10                              | 05-11-2023 | 54.5                                                  | 81.4                                                 | 5.3                                                          | 17.4                                                          |
| 11                              | 08-11-2023 | 52.8                                                  | 84.9                                                 | 9.1                                                          | 19.8                                                          |
| 12                              | 12-11-2023 | 46.9                                                  | 80.6                                                 | 7.9                                                          | 16.5                                                          |
| 13                              | 16-11-2023 | 46.5                                                  | 89.3                                                 | 6.1                                                          | 21.4                                                          |
| 14                              | 20-11-2023 | 56.2                                                  | 83.3                                                 | 7.0                                                          | 22.8                                                          |
| 15                              | 24-11-2023 | 51.3                                                  | 81.9                                                 | 5.3                                                          | 17.3                                                          |
| 16                              | 27-11-2023 | 57.8                                                  | 80.1                                                 | 9.2                                                          | 15.8                                                          |
| 17                              | 02-12-2023 | 41.5                                                  | 74.7                                                 | 8.9                                                          | 16.8                                                          |
| 18                              | 05-12-2023 | 50.8                                                  | 79.4                                                 | 9.2                                                          | 14.8                                                          |
| 19                              | 08-12-2023 | 54.3                                                  | 80.4                                                 | 7.4                                                          | 17.9                                                          |
| 20                              | 12-12-2023 | 46.3                                                  | 73.5                                                 | 9.9                                                          | 14.2                                                          |
| 21                              | 15-12-2023 | 47.5                                                  | 83.4                                                 | 8.9                                                          | 15.3                                                          |
| 22                              | 18-12-2023 | 51.1                                                  | 74.2                                                 | 7.8                                                          | 12.8                                                          |
| 23                              | 21-12-2023 | 58.7                                                  | 92.2                                                 | 8.5                                                          | 17.6                                                          |
| 24                              | 25-12-2023 | 41.9                                                  | 84.7                                                 | 10.8                                                         | 14.9                                                          |
| Minimum                         |            | 41.4                                                  | 69.4                                                 | 4.6                                                          | 10.4                                                          |
| Maximum                         |            | 58.7                                                  | 97.2                                                 | 10.8                                                         | 22.8                                                          |
| Average                         |            | 49.10                                                 | 82.23                                                | 7.56                                                         | 16.43                                                         |
| 98 <sup>th</sup> Percentile     |            | 58.29                                                 | 94.90                                                | 10.39                                                        | 22.16                                                         |
| NAAQS, For 24 Hourly Monitoring |            | 60.0                                                  | 100.0                                                | 80.0                                                         | 80.0                                                          |



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1. Test reports are valid only for the samples tested in our laboratory. 2. Samples will be destroyed as per quality policy.
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Report Code: AAQ-281223-46, Page No. – 2 of 11

| S.No                            | Date       | Particulate Matter<br>PM2.5 ( $\mu\text{g}/\text{m}^3$ ) | Particulate Matter<br>PM10 ( $\mu\text{g}/\text{m}^3$ ) | Sulphur Dioxide<br>SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | Nitrogen Dioxide<br>NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) |
|---------------------------------|------------|----------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|
|                                 |            | IS:5182(Part-24)                                         | IS:5182(Part-23)                                        | IS:5182(Part-2)                                                 | IS:5182(Part-6)                                                  |
| 1                               | 02-10-2023 | 42.6                                                     | 77.2                                                    | 6.6                                                             | 10.8                                                             |
| 2                               | 06-10-2023 | 46.7                                                     | 74.5                                                    | 9.5                                                             | 11.4                                                             |
| 3                               | 11-10-2023 | 49.3                                                     | 74.2                                                    | 11.8                                                            | 12.4                                                             |
| 4                               | 15-10-2023 | 43.2                                                     | 58.2                                                    | 7.9                                                             | 13.9                                                             |
| 5                               | 19-10-2023 | 49.7                                                     | 72.6                                                    | 8.4                                                             | 11.2                                                             |
| 6                               | 23-10-2023 | 50.6                                                     | 79.9                                                    | 6.9                                                             | 15.3                                                             |
| 7                               | 26-10-2023 | 52.5                                                     | 73.5                                                    | 8.3                                                             | 16.4                                                             |
| 8                               | 29-10-2023 | 57.7                                                     | 78.5                                                    | 7.9                                                             | 19.7                                                             |
| 9                               | 01-11-2023 | 54.5                                                     | 74.5                                                    | 9.2                                                             | 22.3                                                             |
| 10                              | 05-11-2023 | 57.7                                                     | 81.2                                                    | 5.3                                                             | 19.6                                                             |
| 11                              | 08-11-2023 | 52.6                                                     | 76.4                                                    | 5.5                                                             | 20.0                                                             |
| 12                              | 12-11-2023 | 58.4                                                     | 85.4                                                    | 7.7                                                             | 22.4                                                             |
| 13                              | 16-11-2023 | 52.5                                                     | 86.7                                                    | 14.4                                                            | 20.3                                                             |
| 14                              | 20-11-2023 | 49.4                                                     | 73.3                                                    | 7.7                                                             | 17.9                                                             |
| 15                              | 24-11-2023 | 49.6                                                     | 77.6                                                    | 10.7                                                            | 23.3                                                             |
| 16                              | 27-11-2023 | 45.6                                                     | 70.3                                                    | 8.6                                                             | 20.4                                                             |
| 17                              | 02-12-2023 | 46.5                                                     | 76.5                                                    | 6.9                                                             | 19.6                                                             |
| 18                              | 05-12-2023 | 48.9                                                     | 77.9                                                    | 7.8                                                             | 20.7                                                             |
| 19                              | 08-12-2023 | 55.7                                                     | 79.5                                                    | 8.5                                                             | 13.7                                                             |
| 20                              | 12-12-2023 | 42.3                                                     | 70.2                                                    | 6.3                                                             | 19.9                                                             |
| 21                              | 15-12-2023 | 50.2                                                     | 82.4                                                    | 6.2                                                             | 20.3                                                             |
| 22                              | 18-12-2023 | 47.7                                                     | 63.2                                                    | 9.7                                                             | 9.4                                                              |
| 23                              | 21-12-2023 | 53.8                                                     | 77.3                                                    | 10.7                                                            | 12.6                                                             |
| 24                              | 25-12-2023 | 46.3                                                     | 78.6                                                    | 7.1                                                             | 22.6                                                             |
| Minimum                         |            | 42.3                                                     | 58.2                                                    | 5.3                                                             | 9.4                                                              |
| Maximum                         |            | 58.4                                                     | 86.7                                                    | 14.4                                                            | 23.3                                                             |
| Average                         |            | 50.17                                                    | 75.82                                                   | 8.32                                                            | 17.34                                                            |
| 98 <sup>th</sup> Percentile     |            | 58.08                                                    | 86.10                                                   | 13.20                                                           | 22.98                                                            |
| NAAQS, For 24 Hourly Monitoring |            | 60.0                                                     | 100.0                                                   | 80.0                                                            | 80.0                                                             |



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Report Code: AAQ-281223-46, Page No. – 3 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 <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | Nitrogen Dioxide NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) |
|---------------------------------|------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
|                                 |            | IS:5182(Part-24)                                      | IS:5182(Part-23)                                     | IS:5182(Part-2)                                              | IS:5182(Part-6)                                               |
| 1                               | 02-10-2023 | 42.1                                                  | 72.4                                                 | 9.2                                                          | 15.4                                                          |
| 2                               | 06-10-2023 | 41.5                                                  | 81.4                                                 | 5.4                                                          | 17.4                                                          |
| 3                               | 11-10-2023 | 44.4                                                  | 80.8                                                 | 7.9                                                          | 16.6                                                          |
| 4                               | 15-10-2023 | 49.8                                                  | 84.5                                                 | 9.2                                                          | 19.9                                                          |
| 5                               | 19-10-2023 | 45.7                                                  | 85.7                                                 | 5.2                                                          | 21.8                                                          |
| 6                               | 23-10-2023 | 46.5                                                  | 82.3                                                 | 8.4                                                          | 17.7                                                          |
| 7                               | 26-10-2023 | 46.8                                                  | 94.2                                                 | 4.8                                                          | 16.1                                                          |
| 8                               | 29-10-2023 | 48.5                                                  | 87.5                                                 | 8.3                                                          | 18.2                                                          |
| 9                               | 01-11-2023 | 49.6                                                  | 85.8                                                 | 9.6                                                          | 20.9                                                          |
| 10                              | 05-11-2023 | 52.6                                                  | 84.6                                                 | 11.5                                                         | 15.6                                                          |
| 11                              | 08-11-2023 | 50.5                                                  | 78.3                                                 | 8.4                                                          | 18.4                                                          |
| 12                              | 12-11-2023 | 54.9                                                  | 71.4                                                 | 10.4                                                         | 17.7                                                          |
| 13                              | 16-11-2023 | 55.3                                                  | 78.7                                                 | 9.8                                                          | 19.8                                                          |
| 14                              | 20-11-2023 | 55.3                                                  | 75.6                                                 | 7.3                                                          | 17.5                                                          |
| 15                              | 24-11-2023 | 57.6                                                  | 80.8                                                 | 6.6                                                          | 18.8                                                          |
| 16                              | 27-11-2023 | 58.2                                                  | 81.3                                                 | 10.2                                                         | 21.5                                                          |
| 17                              | 02-12-2023 | 54.3                                                  | 83.2                                                 | 11.5                                                         | 20.6                                                          |
| 18                              | 05-12-2023 | 49.5                                                  | 75.8                                                 | 8.9                                                          | 19.3                                                          |
| 19                              | 08-12-2023 | 48.7                                                  | 79.6                                                 | 5.4                                                          | 15.8                                                          |
| 20                              | 12-12-2023 | 49.9                                                  | 78.3                                                 | 9.5                                                          | 19.3                                                          |
| 21                              | 15-12-2023 | 47.6                                                  | 77.4                                                 | 12.2                                                         | 16.1                                                          |
| 22                              | 18-12-2023 | 46.8                                                  | 76.7                                                 | 13.9                                                         | 19.3                                                          |
| 23                              | 21-12-2023 | 48.3                                                  | 75.4                                                 | 12.6                                                         | 17.2                                                          |
| 24                              | 25-12-2023 | 44.1                                                  | 82.3                                                 | 8.9                                                          | 14.9                                                          |
| Minimum                         |            | 41.5                                                  | 71.4                                                 | 4.8                                                          | 14.9                                                          |
| Maximum                         |            | 58.2                                                  | 94.2                                                 | 13.9                                                         | 21.8                                                          |
| Average                         |            | 49.52                                                 | 80.58                                                | 8.96                                                         | 18.16                                                         |
| 98 <sup>th</sup> Percentile     |            | 57.92                                                 | 91.12                                                | 13.30                                                        | 21.66                                                         |
| NAAQS, For 24 Hourly Monitoring |            | 60.0                                                  | 100.0                                                | 80.0                                                         | 80.0                                                          |



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Report Code: AAQ-281223-46, Page No. – 4 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 <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | Nitrogen Dioxide NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) |
|---------------------------------|------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
|                                 |            | 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 <sup>th</sup> Percentile     |            | 58.35                                                 | 87.52                                                | 12.24                                                        | 21.82                                                         |
| NAAQS, For 24 Hourly Monitoring |            | 60.0                                                  | 100.0                                                | 80.0                                                         | 80.0                                                          |



V.K.S.

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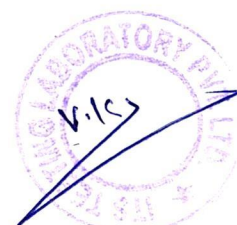
Website: [www.itslab.in](http://www.itslab.in), Email: [itrlclab@gmail.com](mailto:itrlclab@gmail.com), [info@itslab.in](mailto:info@itslab.in), [contact@itslab.in](mailto:contact@itslab.in)

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Report Code: AAQ-281223-46, 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 <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | Nitrogen Dioxide NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) |
|---------------------------------|------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
|                                 |            | IS:5182(Part-24)                                      | IS:5182(Part-23)                                     | IS:5182(Part-2)                                              | IS:5182(Part-6)                                               |
| 1                               | 02-10-2023 | 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 <sup>th</sup> 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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Report Code: AAQ-281223-46, 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 <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | Nitrogen Dioxide NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) |
|---------------------------------|------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
|                                 |            | 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 <sup>th</sup> Percentile     |            | 57.88                                                 | 96.21                                                | 12.50                                                        | 26.71                                                         |
| NAAQS, For 24 Hourly Monitoring |            | 60.0                                                  | 100.0                                                | 80.0                                                         | 80.0                                                          |



V.K.S.

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Report Code: AAQ-281223-46, Page No. – 7 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 <sub>2</sub> ( $\mu\text{g} / \text{m}^3$ ) | Nitrogen Dioxide NO <sub>2</sub> ( $\mu\text{g} / \text{m}^3$ ) |
|---------------------------------|------------|---------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|
|                                 |            | 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 <sup>th</sup> Percentile     |            | 58.08                                                   | 96.92                                                  | 12.93                                                          | 20.92                                                           |
| NAAQS, For 24 Hourly Monitoring |            | 60.0                                                    | 100.0                                                  | 80.0                                                           | 80.0                                                            |

V.K.

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Report Code: AAQ-281223-46, Page No. – 8 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 <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | Nitrogen Dioxide NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) |
|---------------------------------|------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
|                                 |            | 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 <sup>th</sup> 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-281223-46, 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 <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | Nitrogen Dioxide NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) |
|---------------------------------|------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
|                                 |            | IS:5182(Part-24)                                      | IS:5182(Part-23)                                     | IS:5182(Part-2)                                              | IS:5182(Part-6)                                               |
| 1                               | 02-10-2023 | 45.5                                                  | 76.32                                                | 6.4                                                          | 15.7                                                          |
| 2                               | 06-10-2023 | 55.8                                                  | 75.58                                                | 7.2                                                          | 16.5                                                          |
| 3                               | 11-10-2023 | 52.6                                                  | 79.23                                                | 12.5                                                         | 19.8                                                          |
| 4                               | 15-10-2023 | 58.8                                                  | 84.76                                                | 9.6                                                          | 20.4                                                          |
| 5                               | 19-10-2023 | 49.8                                                  | 73.29                                                | 6.8                                                          | 22.7                                                          |
| 6                               | 23-10-2023 | 42.4                                                  | 78.23                                                | 7.3                                                          | 19.1                                                          |
| 7                               | 26-10-2023 | 55.6                                                  | 75.65                                                | 8.9                                                          | 21.9                                                          |
| 8                               | 29-10-2023 | 52.8                                                  | 72.34                                                | 7.1                                                          | 23.8                                                          |
| 9                               | 01-11-2023 | 58.2                                                  | 80.98                                                | 8.9                                                          | 17.5                                                          |
| 10                              | 05-11-2023 | 46.6                                                  | 89.27                                                | 5.9                                                          | 16.8                                                          |
| 11                              | 08-11-2023 | 42.2                                                  | 82.67                                                | 6.6                                                          | 19.6                                                          |
| 12                              | 12-11-2023 | 58.8                                                  | 76.50                                                | 8.5                                                          | 15.5                                                          |
| 13                              | 16-11-2023 | 42.2                                                  | 73.65                                                | 7.2                                                          | 14.5                                                          |
| 14                              | 20-11-2023 | 40.9                                                  | 83.62                                                | 6.1                                                          | 16.9                                                          |
| 15                              | 24-11-2023 | 50.6                                                  | 66.30                                                | 10.6                                                         | 18.6                                                          |
| 16                              | 27-11-2023 | 59.5                                                  | 74.42                                                | 11.8                                                         | 22.8                                                          |
| 17                              | 02-12-2023 | 55.8                                                  | 89.49                                                | 12.4                                                         | 14.24                                                         |
| 18                              | 05-12-2023 | 57.2                                                  | 82.41                                                | 7.7                                                          | 17.7                                                          |
| 19                              | 08-12-2023 | 52.3                                                  | 73.32                                                | 10.2                                                         | 15.2                                                          |
| 20                              | 12-12-2023 | 44.5                                                  | 77.82                                                | 6.8                                                          | 17.2                                                          |
| 21                              | 15-12-2023 | 52.2                                                  | 71.57                                                | 5.3                                                          | 16.8                                                          |
| 22                              | 18-12-2023 | 47.9                                                  | 53.54                                                | 8.5                                                          | 20.9                                                          |
| 23                              | 21-12-2023 | 45.20                                                 | 80.66                                                | 7.9                                                          | 14.3                                                          |
| 24                              | 25-12-2023 | 48.50                                                 | 50.23                                                | 6.2                                                          | 20.6                                                          |
| Minimum                         |            | 40.9                                                  | 50.23                                                | 5.3                                                          | 14.24                                                         |
| Maximum                         |            | 59.5                                                  | 89.49                                                | 12.5                                                         | 23.8                                                          |
| Average                         |            | 50.66                                                 | 75.91                                                | 8.18                                                         | 18.29                                                         |
| 98 <sup>th</sup> Percentile     |            | 59.18                                                 | 89.39                                                | 12.45                                                        | 23.34                                                         |
| NAAQS, For 24 Hourly Monitoring |            | 60.0                                                  | 100.0                                                | 80.0                                                         | 80.0                                                          |



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Report Code: AAQ-281223-46, 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 <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) | Nitrogen Dioxide NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ ) |
|---------------------------------|------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------|
|                                 |            | IS:5182(Part-24)                                      | IS:5182(Part-23)                                     | IS:5182(Part-2)                                              | IS:5182(Part-6)                                               |
| 1                               | 02-10-2023 | 42.2                                                  | 78.32                                                | 7.9                                                          | 12.3                                                          |
| 2                               | 06-10-2023 | 45.8                                                  | 80.56                                                | 5.7                                                          | 13.9                                                          |
| 3                               | 11-10-2023 | 54.6                                                  | 74.34                                                | 8.8                                                          | 11.5                                                          |
| 4                               | 15-10-2023 | 48.6                                                  | 81.12                                                | 10.6                                                         | 20.5                                                          |
| 5                               | 19-10-2023 | 46.2                                                  | 87.68                                                | 9.5                                                          | 16.4                                                          |
| 6                               | 23-10-2023 | 49.1                                                  | 72.38                                                | 7.2                                                          | 18.8                                                          |
| 7                               | 26-10-2023 | 57.4                                                  | 82.87                                                | 6.9                                                          | 12.6                                                          |
| 8                               | 29-10-2023 | 44.2                                                  | 84.34                                                | 8.7                                                          | 15.4                                                          |
| 9                               | 01-11-2023 | 40.4                                                  | 93.19                                                | 7.4                                                          | 10.9                                                          |
| 10                              | 05-11-2023 | 58.7                                                  | 87.53                                                | 9.2                                                          | 16.4                                                          |
| 11                              | 08-11-2023 | 52.6                                                  | 95.90                                                | 6.8                                                          | 19.8                                                          |
| 12                              | 12-11-2023 | 48.4                                                  | 88.89                                                | 8.2                                                          | 22.8                                                          |
| 13                              | 16-11-2023 | 50.7                                                  | 82.75                                                | 7.5                                                          | 14.3                                                          |
| 14                              | 20-11-2023 | 54.6                                                  | 80.97                                                | 7.0                                                          | 16.7                                                          |
| 15                              | 24-11-2023 | 58.6                                                  | 82.91                                                | 8.7                                                          | 18.4                                                          |
| 16                              | 27-11-2023 | 52.7                                                  | 89.81                                                | 12.7                                                         | 16.7                                                          |
| 17                              | 02-12-2023 | 55.76                                                 | 78.45                                                | 11.2                                                         | 19.7                                                          |
| 18                              | 05-12-2023 | 50.45                                                 | 74.50                                                | 9.3                                                          | 12.5                                                          |
| 19                              | 08-12-2023 | 57.20                                                 | 85.48                                                | 8.4                                                          | 14.3                                                          |
| 20                              | 12-12-2023 | 42.3                                                  | 73.78                                                | 8.0                                                          | 18.7                                                          |
| 21                              | 15-12-2023 | 48.6                                                  | 79.54                                                | 5.4                                                          | 15.8                                                          |
| 22                              | 18-12-2023 | 50.1                                                  | 73.76                                                | 6.9                                                          | 17.0                                                          |
| 23                              | 21-12-2023 | 53.8                                                  | 84.34                                                | 8.5                                                          | 16.7                                                          |
| 24                              | 25-12-2023 | 42.5                                                  | 88.76                                                | 10.6                                                         | 15.5                                                          |
| Minimum                         |            | 40.4                                                  | 72.38                                                | 5.4                                                          | 10.9                                                          |
| Maximum                         |            | 58.7                                                  | 95.9                                                 | 12.7                                                         | 22.8                                                          |
| Average                         |            | 50.23                                                 | 82.59                                                | 8.38                                                         | 16.15                                                         |
| 98 <sup>th</sup> Percentile     |            | 58.65                                                 | 94.65                                                | 12.01                                                        | 21.74                                                         |
| NAAQS, For 24 Hourly Monitoring |            | 60.0                                                  | 100.0                                                | 80.0                                                         | 80.0                                                          |



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# 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](http://www.itslab.in), Email: [itlrlab@gmail.com](mailto:itlrlab@gmail.com), [info@itslab.in](mailto:info@itslab.in), [contact@itslab.in](mailto:contact@itslab.in)

+91 9911659800, 9305780312, 09958849764

Report Code: AAQ-281223-46, Page No. – 11 of 11

## Free SiO<sub>2</sub>:

| SiO <sub>2</sub> | 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 <sub>2</sub> | 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   |

  
Checked by

  
Authorized Signatory

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(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



| Test Report of | Report Code | Date of Issue |
|----------------|-------------|---------------|
| Ambient Noise  | N-151223-46 | 05-01-2024    |

Issue To : SKS – RCPL - JV (S.K.S. Infra Projects Pvt. Ltd. & Ramiya Construction Pvt. Ltd.)  
Project Name Location : Sand Mining Project Block – 44 (Gaya Lilajan-04, 05, 06) Sand Ghat on Lilajan River, at Nima, Gothu, Mocharim & Rajbar, Tehsil/Anchal- Bodh Gaya, Mohanpur, 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     | 54.23                         | 49.62  |
| 2     | NQ-2         | Residential Zone               | 55                                           | 45     | 56.32                         | 45.63  |
| 3     | NQ-3         | Residential Zone               | 55                                           | 45     | 57.52                         | 42.65  |
| 4     | NQ-4         | Residential Zone               | 55                                           | 45     | 42.35                         | 39.62  |
| 5     | NQ-5         | Residential Zone               | 55                                           | 45     | 42.65                         | 38.25  |
| 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)

Checked by

Authorized Signatory

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| Test Report of | Report Code  | Date of Issue |
|----------------|--------------|---------------|
| Soil           | SL-151223-46 | 05-01-2024    |

Issue To : SKS – RCPL - JV (S.K.S. Infra Projects Pvt. Ltd. & Ramiya Construction Pvt. Ltd.)  
Project Name Location : Sand Mining Project Block – 44 (Gaya Lilajan-04, 05, 06) Sand Ghat on Lilajan River, at Nima, Gothu, Mocharim & Rajbar, Tehsil/Anchal- Bodh Gaya, Mohanpur, 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                    | %        | 30.54                   | 46.15     | 41.46     | 41.76     |
|      | Clay                    | %        | 34.75                   | 37.62     | 30.24     | 36.64     |
|      | Silt                    | %        | 30.18                   | 15.51     | 23.59     | 20.42     |
| 2    | pH(1:2.5 Suspension)    | -        | 6.84                    | 7.64      | 7.05      | 7.04      |
| 3    | Electrical Conductivity | µmhos/cm | 324.58                  | 451.8     | 424.8     | 325.9     |
| 4    | Potassium ( as K)       | mg/kg    | 165.42                  | 129.60    | 172.49    | 184.08    |
| 5    | Sodium (as Na)          | mg/kg    | 254.65                  | 265.47    | 150.15    | 178.15    |
| 6    | Calcium (as Ca)         | mg/kg    | 4515.56                 | 3841.52   | 3380.65   | 3655.35   |
| 7    | Magnesium (as Mg)       | mg/kg    | 510.35                  | 684.80    | 485.84    | 654.95    |
| 8    | Sodium Absorption Ratio | -        | 0.55                    | 0.65      | 0.75      | 0.79      |
| 9    | Water Holding Capacity  | %        | 33.50                   | 30.65     | 31.54     | 32.55     |
| 10   | Total Kjeldahl Nitrogen | %        | 0.099                   | 0.089     | 0.099     | 0.087     |
| 11   | Phosphorous             | mg/kg    | 50.05                   | 62.15     | 57.65     | 52.55     |
| 12   | Bulk Density            | gm/cc    | 1.54                    | 1.35      | 1.79      | 1.19      |
| 13   | Organic Matter          | %        | 1.79                    | 0.25      | 1.65      | 1.75      |
| 14   | Porosity                | %        | 32.62                   | 39.65     | 31.35     | 37.80     |

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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-151223-46 | 05-01-2024    |

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 05/01/2024

## 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      | 7.12      | 7.54      | 6.98      | -     | 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 <sub>3</sub> )                  | 125       | 165       | 145       | 185       | mg/l  | 200              | 600                                                  |
| 7      | Calcium(as Ca)                                          | 52.31     | 42.65     | 36.54     | 38.96     | mg/l  | 75               | 200                                                  |
| 8      | Magnesium(as Mg)                                        | 65.21     | 75.32     | 84.21     | 65.39     | mg/l  | 30               | 100                                                  |
| 9      | Chloride(as Cl)                                         | 191.52    | 125.3     | 165.4     | 154.8     | mg/l  | 250              | 1000                                                 |
| 10     | Iron(as Fe)                                             | 0.65      | 0.74      | 0.95      | 0.64      | mg/l  | 0.3              | No Relaxation                                        |
| 11     | Fluoride(as F)                                          | 0.6       | 0.8       | 0.4       | 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       | 258       | 654       | 452       | mg/l  | 500              | 2000                                                 |
| 14     | Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> 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 <sub>4</sub> )                          | 54.23     | 32.65     | 45.62     | 65.39     | mg/l  | 200              | 400                                                  |
| 17     | Nitrate (as NO <sub>3</sub> )                           | 7.25      | 6.52      | 4.65      | 6.35      | mg/l  | 45               | No Relaxation                                        |
| 18     | Alkalinity(as CaCO <sub>3</sub> )                       | 258       | 159       | 165       | 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 | Manganese (as Mn)                 | <0.1  | <0.1  | <0.1  | <0.1  | mg/l | 0.1  | 0.3           |
| 27 | Chloramines (as Cl <sub>2</sub> ) | < 1.0 | < 1.0 | < 1.0 | < 1.0 | mg/l | 4    | No Relaxation |
| 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               | GW-4              |              |                                          |
| 1                    | E.coli         | IS-1622     | Not Detected (<2) | 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            | 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-151223-46 | 05-01-2024    |

**Issue To** : SKS – RCPL - JV (S.K.S. Infra Projects Pvt. Ltd. & Ramiya Construction Pvt. Ltd.)  
**Project Name Location** : Sand Mining Project Block – 44 (Gaya Lilajan-04, 05, 06) Sand Ghat on Lilajan River, at Nima, Gothu, Mocharim & Rajbar, Tehsil/Anchal- Bodh Gaya, Mohanpur, 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<br>Lilajan River (Upstream) | SW-2<br>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 <sub>3</sub> )                | 168                              | 105                                | mg/l   |
| 7    | Biological Oxygen Demand (Max.)<br>(at 270C for 3 days) | 5.05                             | 6.25                               | mg/l   |
| 8    | Dissolved Oxygen (as O <sub>2</sub> ) 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 <sub>3</sub> )                  | 165.59                           | 185.65                             | mg/l   |
| 16   | Sulphate (as SO <sub>4</sub> )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 <sub>3</sub> ),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 <sub>2</sub> )             | 36.21                            | 42.12                              | mg/l   |
| 28   | Arsenic (as As )                                        | <0.01                            | <0.01                              | mg/l   |

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