

# ENVIRONMENTAL MONITORING REPORT

**September, 2024**

## **PROJECT: RAMANADURGA IRON ORE MINE**

**ML NO. 2141  
Dharmapura Village  
Sandur Taluk, Ballari District,  
Karnataka**

### **Lessee**

**M/S. Sri. KUMARASWAMY MINERAL EXPORTS PVT. LTD.,**

**D. No. 462, SMIORE Colony,  
Near Fire Station, Kudligi Road  
SANDUR - 583119  
BELLARY, KARNATAKA**

### **ENVIRONMENTAL LABORATORY**

**(Unit of Mineral Engineering Services)**

**(Accredited by NABL &, MOEF&CC Under E(P) 1986)  
#948, 2<sup>nd</sup> Cross, Kammanahalli Main Road,  
St Thomas Town Post, Bangalore- 560 084, Karnataka,**

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# ENVIRONMENTAL LABORATORY

**MTIE**  
INTERCERT  
ISO 45001:2018

(UNIT OF MINERAL ENGINEERING SERVICES)

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Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

## TEST REPORT

Table No. 1

### AMBIENT AIR QUALITY

| Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd                   |                |                                                       |                                                        |                                         |                                          |
|---------------------------------------------------------------------------------------|----------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------------|------------------------------------------|
| Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)                         |                |                                                       |                                                        |                                         |                                          |
| Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) |                |                                                       |                                                        |                                         |                                          |
| Station at & Code : A - I, Dharmapura                                                 |                |                                                       |                                                        |                                         |                                          |
| Duration : 24 Hrs                                                                     |                |                                                       |                                                        |                                         |                                          |
| Issue date : 01.10.2024                                                               |                |                                                       |                                                        |                                         |                                          |
| Reference IS 5182 & Lab SOP                                                           |                |                                                       |                                                        |                                         |                                          |
| Date of Sampling                                                                      | Lab Code       | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                      |                                          |
|                                                                                       |                |                                                       |                                                        | PM <sub>10</sub> , (µg/m <sup>3</sup> ) | PM <sub>2.5</sub> , (µg/m <sup>3</sup> ) |
| 04.09.2024                                                                            | N/24/09/3-0075 | 9                                                     | 10                                                     | 48                                      | 23                                       |
| 05.09.2024                                                                            | N/24/09/3-0166 | 9                                                     | 11                                                     | 50                                      | 29                                       |
| 13.09.2024                                                                            | N/24/09/4-0140 | 10                                                    | 13                                                     | 40                                      | 22                                       |
| 14.09.2024                                                                            | N/24/09/4-0239 | 9                                                     | 11                                                     | 53                                      | 29                                       |
| 16.09.2024                                                                            | N/24/09/5-0010 | 8                                                     | 10                                                     | 47                                      | 25                                       |
| 17.09.2024                                                                            | N/24/09/5-0069 | 9                                                     | 11                                                     | 43                                      | 22                                       |
| 25.09.2024                                                                            | N/24/09/6-0112 | 10                                                    | 9                                                      | 49                                      | 27                                       |
| 26.09.2024                                                                            | N/24/09/6-0135 | 7                                                     | 11                                                     | 54                                      | 28                                       |
| Limits for Industrial , Residential, Rural and other Areas                            |                | 80<br>24 Hrs                                          | 80<br>24 Hrs                                           | 100<br>24 Hrs                           | 60<br>24 Hrs                             |

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## TEST REPORT

Table No. 2

### AMBIENT AIR QUALITY

| Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd                   |                |                                                       |                                                        |                                         |                                          |
|---------------------------------------------------------------------------------------|----------------|-------------------------------------------------------|--------------------------------------------------------|-----------------------------------------|------------------------------------------|
| Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)                         |                |                                                       |                                                        |                                         |                                          |
| Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) |                |                                                       |                                                        |                                         |                                          |
| Station at & Code : A - II, Yeshwanthanagar                                           |                |                                                       |                                                        |                                         |                                          |
| Duration : 24 Hrs                                                                     |                |                                                       |                                                        |                                         |                                          |
| Issue date : 01.10.2024                                                               |                |                                                       |                                                        |                                         |                                          |
| Reference IS 5182 & Lab SOP                                                           |                |                                                       |                                                        |                                         |                                          |
| Date of Sampling                                                                      | Lab Code       | Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                      |                                          |
|                                                                                       |                |                                                       |                                                        | PM <sub>10</sub> , (µg/m <sup>3</sup> ) | PM <sub>2.5</sub> , (µg/m <sup>3</sup> ) |
| 04.09.2024                                                                            | N/24/09/3-0067 | 11                                                    | 14                                                     | 54                                      | 30                                       |
| 05.09.2024                                                                            | N/24/09/3-0153 | 9                                                     | 11                                                     | 50                                      | 26                                       |
| 09.09.2024                                                                            | N/24/09/4-0014 | 5                                                     | 9                                                      | 42                                      | 24                                       |
| 10.09.2024                                                                            | N/24/09/4-0056 | 11                                                    | 13                                                     | 39                                      | 20                                       |
| 20.09.2024                                                                            | N/24/09/5-0157 | 7                                                     | 12                                                     | 53                                      | 28                                       |
| 21.09.2024                                                                            | N/24/09/5-0204 | 6                                                     | 11                                                     | 48                                      | 27                                       |
| 23.09.2024                                                                            | N/24/09/6-0010 | 10                                                    | 9                                                      | 54                                      | 28                                       |
| 24.09.2024                                                                            | N/24/09/6-0063 | 12                                                    | 14                                                     | 57                                      | 30                                       |
| Limits for Industrial , Residential, Rural and other Areas                            |                | 80<br>24 Hrs                                          | 80<br>24 Hrs                                           | 100<br>24 Hrs                           | 60<br>24 Hrs                             |

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## TEST REPORT

Table No. 3

### AMBIENT AIR QUALITY

| Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd                   |                |                                                             |                                                              |                                            |                                             |
|---------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------|---------------------------------------------|
| Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)                         |                |                                                             |                                                              |                                            |                                             |
| Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) |                |                                                             |                                                              |                                            |                                             |
| Station at & Code : A - III, Sushila Nagar village                                    |                |                                                             |                                                              |                                            |                                             |
| Duration : 24 Hrs                                                                     |                |                                                             |                                                              |                                            |                                             |
| Issue date : 01.10.2024                                                               |                |                                                             |                                                              |                                            |                                             |
| Reference IS 5182 & Lab SOP                                                           |                |                                                             |                                                              |                                            |                                             |
| Date of Sampling                                                                      | Lab Code       | Sulphur<br>Dioxide<br>(SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen<br>Dioxide<br>(NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                         |                                             |
|                                                                                       |                |                                                             |                                                              | PM <sub>10</sub> ,<br>(µg/m <sup>3</sup> ) | PM <sub>2.5</sub> ,<br>(µg/m <sup>3</sup> ) |
| 04.09.2024                                                                            | N/24/09/3-0089 | 11                                                          | 14                                                           | 52                                         | 27                                          |
| 05.09.2024                                                                            | N/24/09/3-0179 | 9                                                           | 10                                                           | 53                                         | 27                                          |
| 11.09.2024                                                                            | N/24/09/4-0102 | 8                                                           | 13                                                           | 52                                         | 28                                          |
| 12.09.2024                                                                            | N/24/09/4-0122 | 6                                                           | 11                                                           | 48                                         | 26                                          |
| 16.09.2024                                                                            | N/24/09/5-0037 | 10                                                          | 14                                                           | 40                                         | 22                                          |
| 17.09.2024                                                                            | N/24/09/5-0097 | 12                                                          | 18                                                           | 55                                         | 30                                          |
| 25.09.2024                                                                            | N/24/09/6-0122 | 9                                                           | 12                                                           | 45                                         | 25                                          |
| 26.09.2024                                                                            | N/24/09/6-0150 | 11                                                          | 14                                                           | 50                                         | 27                                          |
| Limits for Industrial ,<br>Residential, Rural and other Areas                         |                | 80<br>24 Hrs                                                | 80<br>24 Hrs                                                 | 100<br>24 Hrs                              | 60<br>24 Hrs                                |

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## TEST REPORT

Table No. 4

### AMBIENT AIR QUALITY

| Name of the Client                                            | : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd                  |                                                             |                                                              |                                            |                                             |
|---------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------|---------------------------------------------|
| Name of the Project                                           | : Ramanadurga Iron Ore Mine (ML No. 2141)                         |                                                             |                                                              |                                            |                                             |
| Sample Collected by                                           | : Environmental Laboratory (Unit of Mineral Engineering Services) |                                                             |                                                              |                                            |                                             |
| Station at & Code                                             | : A - IV Sandur Town                                              |                                                             |                                                              |                                            |                                             |
| Duration                                                      | : 24 Hrs                                                          |                                                             |                                                              |                                            |                                             |
| Issue date                                                    | : 01.10.2024                                                      |                                                             |                                                              |                                            |                                             |
| Reference                                                     | IS 5182 & Lab SOP                                                 |                                                             |                                                              |                                            |                                             |
| Date of Sampling                                              | Lab Code                                                          | Sulphur<br>Dioxide<br>(SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen<br>Dioxide<br>(NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                         |                                             |
|                                                               |                                                                   |                                                             |                                                              | PM <sub>10</sub> ,<br>(µg/m <sup>3</sup> ) | PM <sub>2.5</sub> ,<br>(µg/m <sup>3</sup> ) |
| 04.09.2024                                                    | N/24/09/3-0081                                                    | 6                                                           | 10                                                           | 54                                         | 29                                          |
| 05.09.2024                                                    | N/24/09/3-0172                                                    | 11                                                          | 14                                                           | 47                                         | 28                                          |
| 11.09.2024                                                    | N/24/09/4-0093                                                    | 5                                                           | 9                                                            | 56                                         | 30                                          |
| 12.09.2024                                                    | N/24/09/4-0116                                                    | 10                                                          | 12                                                           | 52                                         | 26                                          |
| 18.09.2024                                                    | N/24/09/5-0125                                                    | 12                                                          | 14                                                           | 51                                         | 26                                          |
| 19.09.2024                                                    | N/24/09/5-0139                                                    | 9                                                           | 10                                                           | 55                                         | 30                                          |
| 23.09.2024                                                    | N/24/09/6-0022                                                    | 11                                                          | 12                                                           | 58                                         | 32                                          |
| 24.09.2024                                                    | N/24/09/6-0074                                                    | 10                                                          | 14                                                           | 38                                         | 22                                          |
| Limits for Industrial ,<br>Residential, Rural and other Areas |                                                                   | 80<br>24 Hrs                                                | 80<br>24 Hrs                                                 | 100<br>24 Hrs                              | 60<br>24 Hrs                                |

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### TEST REPORT

Table No. 5

#### AMBIENT AIR QUALITY

| Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd                   |                |                                                          |                                                           |                                            |                                             |
|---------------------------------------------------------------------------------------|----------------|----------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------|---------------------------------------------|
| Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)                         |                |                                                          |                                                           |                                            |                                             |
| Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services) |                |                                                          |                                                           |                                            |                                             |
| Station at & Code : A - V Core zone Within ML Area                                    |                |                                                          |                                                           |                                            |                                             |
| Duration : 24 Hrs                                                                     |                |                                                          |                                                           |                                            |                                             |
| Issue date : 01.10.2024                                                               |                |                                                          |                                                           |                                            |                                             |
| Reference IS 5182 & Lab SOP                                                           |                |                                                          |                                                           |                                            |                                             |
| Date of Sampling                                                                      | Lab Code       | Sulphur Dioxide<br>(SO <sub>2</sub> ), µg/m <sup>3</sup> | Nitrogen Dioxide<br>(NO <sub>2</sub> ), µg/m <sup>3</sup> | Particulate Matter                         |                                             |
|                                                                                       |                |                                                          |                                                           | PM <sub>10</sub> ,<br>(µg/m <sup>3</sup> ) | PM <sub>2.5</sub> ,<br>(µg/m <sup>3</sup> ) |
| 04.09.2024                                                                            | N/24/09/3-0090 | 9                                                        | 12                                                        | 45                                         | 22                                          |
| 05.09.2024                                                                            | N/24/09/3-0180 | 9                                                        | 10                                                        | 56                                         | 32                                          |
| 11.09.2024                                                                            | N/24/09/4-0103 | 7                                                        | 11                                                        | 36                                         | 19                                          |
| 12.09.2024                                                                            | N/24/09/4-0123 | 9                                                        | 13                                                        | 34                                         | 28                                          |
| 16.09.2024                                                                            | N/24/09/5-0038 | 10                                                       | 15                                                        | 53                                         | 29                                          |
| 17.09.2024                                                                            | N/24/09/5-0098 | 11                                                       | 18                                                        | 48                                         | 25                                          |
| 25.09.2024                                                                            | N/24/09/6-0123 | 12                                                       | 20                                                        | 40                                         | 22                                          |
| 26.09.2024                                                                            | N/24/09/6-0151 | 9                                                        | 12                                                        | 41                                         | 23                                          |
| Limits for Industrial ,<br>Residential, Rural and other Areas                         |                | 80<br>24 Hrs                                             | 80<br>24 Hrs                                              | 100<br>24 Hrs                              | 60<br>24 Hrs                                |

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## TEST REPORT

Table No. 6

### Fugitive Emission

| Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd                      |                |                                                |
|------------------------------------------------------------------------------------------|----------------|------------------------------------------------|
| Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)                            |                |                                                |
| Sample Collected by : Environmental Laboratory<br>(Unit of Mineral Engineering Services) |                |                                                |
| Station at & Code : A - VI, Loading point                                                |                |                                                |
| Duration : 08 Hrs                                                                        |                |                                                |
| Issue date : 01.10.2024                                                                  |                |                                                |
| Date of sample                                                                           | Lab Code       | Particulate mater ( $\mu\text{g}/\text{m}^3$ ) |
| 04.09.2024                                                                               | N/24/09/3-0091 | 212                                            |
| 11.09.2024                                                                               | N/24/09/4-0104 | 232                                            |

| Station at & Code : A - VII, Crushing & Screening |                |                                                |
|---------------------------------------------------|----------------|------------------------------------------------|
| Duration : 08 Hrs                                 |                |                                                |
| Date of sample                                    | Lab Code       | Particulate mater ( $\mu\text{g}/\text{m}^3$ ) |
| 05.09.2024                                        | N/24/09/3-0181 | 362                                            |
| 12.09.2024                                        | N/24/09/4-0124 | 354                                            |

| Station at & Code : A - VIII, Dumping point |                |                                                |
|---------------------------------------------|----------------|------------------------------------------------|
| Duration : 08 Hrs                           |                |                                                |
| Date of sample                              | Lab Code       | Particulate mater ( $\mu\text{g}/\text{m}^3$ ) |
| 04.09.2024                                  | N/24/09/3-0092 | 354                                            |
| 11.09.2024                                  | N/24/09/4-0105 | 369                                            |

| Station at & Code : A - IX, Haulage Road                               |                |                                                |
|------------------------------------------------------------------------|----------------|------------------------------------------------|
| Duration : 08 Hrs                                                      |                |                                                |
| Date of sample                                                         | Lab Code       | Particulate mater ( $\mu\text{g}/\text{m}^3$ ) |
| 05.09.2024                                                             | N/24/09/3-0182 | 312                                            |
| 12.09.2024                                                             | N/24/09/4-0125 | 385                                            |
| Ref : Environmental (Protection) Rules, 2010 (Sixth Amendment)         |                |                                                |
| Particulate mater ( $\mu\text{g}/\text{m}^3$ )                         |                |                                                |
| Permissible limits for Fugitive Emissions 600 $\mu\text{g}/\text{m}^3$ |                |                                                |

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## TEST REPORT

Table No. 7

### STATISTICAL AIR QUALITY DATA

|                                                                     |                 |                 |                  |                   |                                |                 |                  |                   |                                |                 |                  |                   |
|---------------------------------------------------------------------|-----------------|-----------------|------------------|-------------------|--------------------------------|-----------------|------------------|-------------------|--------------------------------|-----------------|------------------|-------------------|
| Name of the Project : Ramanadurga Iron Ore Mine (ML No. 2141)       |                 |                 |                  |                   |                                |                 |                  |                   |                                |                 |                  |                   |
| Name of the Client : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd |                 |                 |                  |                   |                                |                 |                  |                   |                                |                 |                  |                   |
| Month : Sepember, 2024                                              |                 |                 |                  |                   |                                |                 |                  |                   |                                |                 |                  |                   |
| Station Code : A - I, Dharmapura                                    |                 |                 |                  |                   | A - II, Yeshwanthanagar        |                 |                  |                   | A - III, Sushila Nagar village |                 |                  |                   |
|                                                                     | SO <sub>2</sub> | NO <sub>2</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub>                | NO <sub>2</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub>                | NO <sub>2</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
| Min.                                                                | 7               | 9               | 40               | 22                | 5                              | 9               | 39               | 20                | 6                              | 10              | 40               | 22                |
| 10%                                                                 | 8               | 10              | 42               | 22                | 6                              | 9               | 41               | 23                | 7                              | 11              | 44               | 24                |
| 25%                                                                 | 9               | 10              | 46               | 23                | 7                              | 11              | 47               | 26                | 9                              | 12              | 47               | 26                |
| 50%                                                                 | 9               | 11              | 49               | 26                | 10                             | 12              | 52               | 28                | 10                             | 14              | 51               | 27                |
| 75%                                                                 | 9               | 11              | 51               | 28                | 11                             | 13              | 54               | 29                | 11                             | 14              | 52               | 27                |
| 98%                                                                 | 10              | 13              | 54               | 29                | 12                             | 14              | 57               | 30                | 12                             | 17              | 55               | 30                |
| Max.                                                                | 10              | 13              | 54               | 29                | 12                             | 14              | 57               | 30                | 12                             | 18              | 55               | 30                |
| Avg.                                                                | 9               | 11              | 48               | 26                | 9                              | 12              | 50               | 27                | 10                             | 13              | 49               | 27                |
| SD                                                                  | 1               | 1               | 5                | 3                 | 3                              | 2               | 6                | 3                 | 2                              | 2               | 5                | 2                 |
| No. of obs                                                          | 8               |                 |                  |                   | 8                              |                 |                  |                   | 8                              |                 |                  |                   |
| Station Code : A - IV Sandur Town                                   |                 |                 |                  |                   | A - V Core zone Within ML Area |                 |                  |                   |                                |                 |                  |                   |
|                                                                     | SO <sub>2</sub> | NO <sub>2</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>2</sub>                | NO <sub>2</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |                                |                 |                  |                   |
| Min.                                                                | 5               | 9               | 38               | 22                | 7                              | 10              | 34               | 19                |                                |                 |                  |                   |
| 10%                                                                 | 6               | 10              | 44               | 25                | 8                              | 11              | 35               | 21                |                                |                 |                  |                   |
| 25%                                                                 | 8               | 10              | 50               | 26                | 9                              | 12              | 39               | 22                |                                |                 |                  |                   |
| 50%                                                                 | 10              | 12              | 53               | 29                | 9                              | 13              | 43               | 24                |                                |                 |                  |                   |
| 75%                                                                 | 11              | 14              | 55               | 30                | 10                             | 16              | 49               | 28                |                                |                 |                  |                   |
| 98%                                                                 | 12              | 14              | 58               | 32                | 12                             | 20              | 56               | 32                |                                |                 |                  |                   |
| Max.                                                                | 12              | 14              | 58               | 32                | 12                             | 20              | 56               | 32                |                                |                 |                  |                   |
| Avg.                                                                | 9               | 12              | 51               | 28                | 10                             | 14              | 44               | 25                |                                |                 |                  |                   |
| SD                                                                  | 2               | 2               | 6                | 3                 | 2                              | 4               | 8                | 4                 |                                |                 |                  |                   |
| No. of obs                                                          | 8               |                 |                  |                   | 8                              |                 |                  |                   |                                |                 |                  |                   |

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(UNIT OF MINERAL ENGINEERING SERVICES)

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MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025



## TEST REPORT

Table No. 8

|                                                            |                                                                           |
|------------------------------------------------------------|---------------------------------------------------------------------------|
| Name of the Client                                         | : M/s. Sri. Kumaraswamy Mineral Exports Pvt. Ltd                          |
| Name of the Project                                        | : Ramanadurga Iron Ore Mine (ML No. 2141)                                 |
| Sample Collected by                                        | : Environmental Laboratory (Unit of Mineral Engineering Services)         |
| Particulars of sample collected                            | : SW1 - Nari Halla Up Stream water,<br>SW2 - Nari Halla Down Stream water |
| Date of sample collection                                  | : 05.09.2024                                                              |
| Date of sample receipt                                     | : 06.09.2024                                                              |
| Issue Date                                                 | : 20.09.2024                                                              |
| Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards) |                                                                           |

| Lab Code |                                                                    | N/24/09/3-0005 | N/24/09/3-0006 | Limits For Stream Water Standards | Method of Testing            |
|----------|--------------------------------------------------------------------|----------------|----------------|-----------------------------------|------------------------------|
| Sl.No.   | Parameters                                                         | Results        |                |                                   |                              |
|          |                                                                    | SW1            | SW2            |                                   |                              |
| 1        | Colour (Hazen Units), Max                                          | 10             | 10             | 300                               | IS:3025(Part-4)2021          |
| 2        | pH                                                                 | 8.03           | 8.00           | 6.5 to 8.5                        | IS:3025(Part-11)2022         |
| 3        | Dissolved Oxygen (as O <sub>2</sub> ), mg/l, Max                   | 5.3            | 5.3            | Min 4                             | IS:3025(Part-38)1989RA 2019  |
| 4        | Oil & Grease, mg/l                                                 | <0.1           | <0.1           | 0.1                               | IS:3025(Part 39)2021         |
| 5        | Total Dissolved Solids (mg/l), Max                                 | 232            | 238            | 1500                              | IS:3025(Part-16)2023         |
| 6        | Nitrates (as NO <sub>3</sub> ),mg/l, Max                           | 16.00          | 13.80          | 50                                | IS:3025(Part-34)1988 RA 2019 |
| 7        | Anionic detergents (as MBAS),mg/l, Max                             | <0.1           | <0.1           | 1.0                               | IS:3025(Part-68)             |
| 8        | Copper (as Cu),mg/l, Max                                           | <0.005         | <0.005         | 1.5                               | IS:3025(Part-2) 2019         |
| 9        | Chloride (as Cl),mg/l, Max                                         | 48.0           | 52.1           | 600                               | IS:3025(Part-32) ;1988RA2019 |
| 10       | Fluoride (as F),mg/l, Max                                          | 0.58           | 0.70           | 1.5                               | APHA 23rd Edition 4500F      |
| 11       | Iron (as Fe),mg/l, Max                                             | <0.005         | <0.005         | 50                                | IS:3025(P-2) 2019            |
| 12       | Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH),mg/l, Max | <0.001         | <0.001         | 0.005                             | IS:3025(P-43)Sec 1 2022      |
| 13       | Selenium (as Se), mg/l, Max                                        | <0.005         | <0.005         | 0.05                              | IS:3025(P-2) 2019            |
| 14       | Sulphates as SO <sub>4</sub> (mg/l), Max                           | 38.0           | 42.5           | 400                               | IS:3025(P-24)Sec 1 2022      |
| 15       | Zinc (as Zn),mg/l, Max                                             | <0.005         | <0.005         | 15                                | IS:3025(P-2) 2019            |
| 16       | Cadmium (as Cd), mg/l, Max                                         | <0.001         | <0.001         | 0.01                              | IS:3025(P-2) 2019            |
| 17       | Cyanides (as CN), mg/l, Max                                        | <0.01          | <0.01          | 0.05                              | IS:3025(P-27) Sec 1 2021     |
| 18       | Lead (as Pb) mg/l, Max                                             | <0.005         | <0.005         | 0.1                               | IS:3025(P-2) 2019            |
| 19       | Total Arsenic as As (mg/l), Max                                    | <0.002         | <0.002         | 0.2                               | IS:3025(P-2) 2019            |
| 20       | Hexavalent Chromium (as Cr <sup>+6</sup> ), mg/l, Max              | <0.03          | <0.03          | 0.05                              | IS:3025(P-52) 2014           |
| 21       | Biochemical Oxygen Demand (as O <sub>2</sub> ), mg/l               | <3.0           | <3.0           | 3                                 | IS:3025(P-44) 2014           |
| 22       | Total Coliform (MPN/100ml)                                         | 430            | 440            | 5000                              | IS:1622:1981                 |

""END OF REPORT""

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