



# EARTHCARE LABS PRIVATE LIMITED

(Laboratory Division)

Environmental Laboratory & EIA Consultant Organization

(NABL QCI Accredited, MoEF Recognized, NABET QCI Accredited, ISO 9001, ISO 14001 & OHSAS 18001 Certified)

C-11, Amar Enclave Commercial Wing, Jog Layout, Prashant Nagar, Near Ajni Square, Nagpur – 440 015, Tel & Fax: (0712) 2251470, Cell: 9766616862

Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

Certificate No.: TC-7572

## Test Report Effluent Quality

|  |   |
|--|---|
| Report No. : ELPL/QD4/TRD/5.10/EI/Dec-19/55  | Report Date : 04-01-2020                              |
| Name & Address of the Customer: M/s. INVENTYS RESEARCH CO. PVT. LTD.,<br>Plot No .K-38, MIDC, Butibori, Dist.- Nagpur. |   |
| Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019  |   |
| Sample Description : Industrial Effluent   | Sampling Location : Primary Treated Effluent          |
| Sampling Ref Method : IS 3025 (Part 1): 1987 RA 2009   | Environmental Condition : Cloudy<br>(during sampling) |
| Sample Inward No.: ELPL/Dec-19/55/64/EI-55   | Sampled By: ELPL Representative                       |
| Sampling Date : 27-12-19   |   |
| Sample Receipt Date : 27-12-19   |   |
| Period of Analysis : From 30-12-19 to 04-01-20   |   |

### Results of Analysis

| Sr. No. | Test Parameters                 | Unit | Norms**    | Result | Test Method   |
|---------|---------------------------------|------|------------|--------|---|
| 1.      | pH value                        | --   | 5.5 to 9.0 | 7.94   | IS 3025 (Part 11): 1983 RA 2017 (Clause 2.0)                      |
| 2.      | Oil & Grease                    | mg/l | 10.0       | <0.2   | IS 3025(Part 39): 1991 RA 2014                                    |
| 3.      | Biochemical Oxygen Demand (BOD) | mg/l | 100        | 3.6    | IS 3025 (Part 44): 1993 RA 2014                                   |
| 4.      | Chloride (as Cl )*              | mg/l | 600        | 127.0  | IS 3025 (Part 32): 1988 RA 2014 (Clause 2.0)                      |
| 5.      | Total Suspended Solids (TSS)    | mg/l | 100        | 5.6    | IS 3025 (Part 17): 1984 RA 2017                                   |
| 6.      | Chemical Oxygen Demand (COD)    | mg/l | 250        | 152.0  | IS 3025 (Part 58): 2006 RA 2017                                   |
| 7.      | Total Dissolved Solids*         | mg/l | 2100       | 842.0  | IS 3025 (Part 16): 1984 RA 2017                                   |
| 8.      | Sulphate (as SO <sub>4</sub> )* | mg/l | 1000       | 131.0  | APHA 23 <sup>rd</sup> Ed - 4500 SO <sub>4</sub> <sup>2-</sup> (E) |
| 9.      | Cyanide (as CN)*                | mg/l | 0.2        | <0.05  | IS 3025 (Part 27) : 1986 RA 2014                                  |

Note : 1. \*indicate that parameters not covered under NABL Scope of Accreditation.  
2. Consent No. Format 1.0/BO/CAC-Cell/UAN No. 14513/4th CAC/1711000857 Dtd. 24-11-2017  
3. Test results relates to sample collected & tested. It shall not be reproduced partially or fully without prior approval of ELPL.

Remarks: Treated effluent is meeting the norms for above parameters



For Earthcare Labs Pvt. Ltd.

(K.L. Jadhav)  
Authorized Signatory & CEO



Certificate No.: TC-7572

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Email: earthcare2000@gmail.com, Website: www.earthcarenagpur.com

## Test Report Effluent Quality

|   |  |
|---|--|
| Report No. : ELPL/QD4/TRD/5.10/ED/Dec-19/26   | Report Date : 04-01-2020                           |
| Name & Address of the Customer: <b>M/s. INVENTYS RESEARCH CO. PVT. LTD.,</b><br>Plot No .K-38, MIDC, Butibori, Dist.- Nagpur. |  |
| Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019   |  |
| Sample Description : Domestic Effluent  | Sampling Location : STP Treated Water              |
| Sampling Ref Method : IS 3025 (Part 1): 1987 RA 2009  | Environment Condition: Cloudy<br>(during sampling) |
| Sample Inward No. : ELPL/Dec-19/55/64/ED-26   | Sampled by : ELPL Representative                   |
| Sampling Date : 27-12-19  |  |
| Sample Receipt Date : 27-12-19  |  |
| Period of Analysis : From 30-12-2019 to 04-01-2020  |  |

### Results of Analysis

| Sr. No. | Test Parameters                 | Unit | Result | Test Method                     |
|---------|---------------------------------|------|--------|---------------------------------|
| 1       | Suspended Solids (SS)           | mg/l | 20.0   | IS 3025 (Part 17): 1984 RA 2017 |
| 2       | Biochemical Oxygen Demand (BOD) | mg/l | 23.0   | IS 3025 (Part 44): 1993 RA 2014 |
| 3       | Chemical Oxygen Demand (COD)    | mg/l | 88.0   | IS 3025 (Part 58): 2006 RA 2017 |
| 4       | Bioassay Test                   | %    | 90.0   | IS 6582 (Part 2) 2001 RA2019    |

Note : 1. \*indicate that parameters not covered under NABL Scope of Accreditation.  
2. Consent No. Format 1.0/BO/CAC-Cell/UAN No. 14513/4th CAC/1711000857 Dtd. 24-11-2017  
3. Test results relates to sample collected & tested. It shall not be reproduced partially or fully without prior approval of ELPL.

Remarks: Treated effluent is meeting the norms for above parameters



For Earthcare Labs Pvt. Ltd.

*(Handwritten Signature)*

(K.L.Jadhav)

Authorized Signatory & CEO



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Certificate No.: TC-7572

## Test Report

### Ambient Air Quality

|  |  |
|--|--|
| Report No.:ELPL/QD4/TRD/5.10/AA-13/Dec-19/266  | Report Date : 04-01-2020                             |
| Name & Address of the Customer : <b>M/s. INVENTYS RESEARCH CO. PVT. LTD.,</b><br>Plot No .K-38, MIDC, Butibori, Dist.- Nagpur. |  |
| Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019  |  |
| Sample Description : Ambient Air Sample<br>Sampling Ref Method : IS 5182 (Part 14) : 2000<br>RA 2010                           | Sampling Location : Near Security Main Gate          |
| Sample Inward No. :ELPL/Dec-19/55/64/AA-266  | Environmental Condition : Sunny<br>(during sampling) |
| Sampling Date : 27-12-19 to 28-12-19   | Sampled by : ELPL Representative                     |
| Sample Receipt Date : 28-12-19   |  |
| Period of Analysis : From 30-12-19 to 04-01-2020   |  |

### Results of Analysis

| Sr. No. | Test Parameters  | Unit              | Norms** | Result | Test Method  |
|---------|--|-------------------|---------|--------|--|
| 1.      | Sulphur Dioxide (SO <sub>2</sub> )                               | µg/m <sup>3</sup> | 80      | 9.15   | IS 5182 (Part 2): 2001<br>RA 2017                              |
| 2.      | Nitrogen Dioxide (NO <sub>2</sub> )                              | µg/m <sup>3</sup> | 80      | 19.7   | IS 5182 (Part 6): 2006<br>RA 2017                              |
| 3.      | Particulate Matter size<br>less than 10 µm ( PM <sub>10</sub> )  | µg/m <sup>3</sup> | 100     | 57.2   | IS 5182 (Part 23) : 2006<br>RA 2017                            |
| 4.      | Particulate Matter size<br>less than 2.5 µm (PM <sub>2.5</sub> ) | µg/m <sup>3</sup> | 60      | 27.0   | USEPA - 40 CFR Part 50<br>(Appendix O)                         |
| 5.      | Ozone (O <sub>3</sub> )  | µg/m <sup>3</sup> | 100     | <20.0  | APHA- Method No.411<br>(44101-02-70T) 2 <sup>nd</sup> edition  |
| 6.      | Lead (Pb)*   | µg/m <sup>3</sup> | 0.5     | 0.05   | IS 5182 (Part 22): 2004 RA 2014<br>(Clause 5.0)                |
| 7.      | Carbon Monoxide (CO)*  | mg/m <sup>3</sup> | 2       | 0.15   | IS 5182 (Part 10) : 1999 RA 2014<br>(Clause 5.0)               |
| 8.      | Ammonia (NH <sub>3</sub> )                                       | µg/m <sup>3</sup> | 100     | <20.0  | APHA- Method No.401<br>(42604-01-72T), 2 <sup>nd</sup> edition |
| 9.      | Benzene (C <sub>6</sub> H <sub>6</sub> )*                        | µg/m <sup>3</sup> | 5       | 3.46   | IS 5182 (Part 11) : 2006 RA 2017<br>(Clause 4.0)               |
| 10.     | Benzo [a] Pyrene (as<br>BaP)- particulate phase<br>only*         | ng/m <sup>3</sup> | 1       | <1.0   | IS 5182 (Part 12) : 2004 RA 2014                               |





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Certificate No.: TC 7572

|   |                          |
|---|--------------------------|
| Report No.: ELPL/QD4/TRD/5.10/AA-13/Dec-19/26 | Report Date : 04-01-2020 |
|---|--------------------------|

| Sr. No. | Test Parameters | Unit              | Norms** | Result | Test Method                                  |
|---------|-----------------|-------------------|---------|--------|--|
| 11.     | Arsenic (As)*   | ng/m <sup>3</sup> | 6       | 2.31   | IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0) |
| 12.     | Nickel (Ni)*    | ng/m <sup>3</sup> | 20      | 7.72   | IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0) |

Note : 1. \*indicate that parameters not covered under NABL Scope of Accreditation.  
 2. \*\* indicates NAAQS (Govt. of India MoEF Notification No. GSR 826 CE dtd.16-11-2009 as amended).  
 3. Test results relates to sample collected & tested. It shall not be reproduced partially or fully without prior approval of ELPL.

Remarks: Ambient air quality is meeting the norms for above parameters

For Earthcare Labs Pvt. Ltd.



  
 (K.L. Jadhav)  
 Authorized Signatory &  
 CEO



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## Test Report Ambient Air Quality

|  |  |
|--|--|
| Report No.: ELPL/QD4/TRD/5.10/AA-13/Dec-   | Report Date : 04-01-2020                             |
| Name & Address of the Customer : <b>M/s. INVENTYS RESEARCH CO. PVT. LTD.,</b><br>Plot No .K-38, MIDC, Butibori, Dist.- Nagpur. |  |
| Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019  |  |
| Sample Description : Ambient Air Sample<br>Sampling Ref Method : IS 5182 (Part 14) : 2000<br>RA 2010                           | Sampling Location : Near Boiler House                |
| Sample Inward No. :ELPL/Dec-19/55/64/AA-267  | Environmental Condition : Sunny<br>(during sampling) |
| Sampling Date : 27-12-19 to 28-12-19<br>Sample Receipt Date : 28-12-19   | Sampled by : ELPL Representative                     |
| Period of Analysis : From 30-12-19 to 04-01-2020   |  |

### Results of Analysis

| Sr. No. | Test Parameters   | Unit              | Norms** | Result | Test Method  |
|---------|---|-------------------|---------|--------|--|
| 1.      | Sulphur Dioxide (SO <sub>2</sub> )                            | µg/m <sup>3</sup> | 80      | 12.7   | IS 5182 (Part 2): 2001<br>RA 2017                              |
| 2.      | Nitrogen Dioxide (NO <sub>2</sub> )                           | µg/m <sup>3</sup> | 80      | 21.8   | IS 5182 (Part 6): 2006<br>RA 2017                              |
| 3.      | Particulate Matter size less than 10 µm ( PM <sub>10</sub> )  | µg/m <sup>3</sup> | 100     | 63.5   | IS 5182 (Part 23) : 2006<br>RA 2017                            |
| 4.      | Particulate Matter size less than 2.5 µm (PM <sub>2.5</sub> ) | µg/m <sup>3</sup> | 60      | 31.5   | USEPA - 40 CFR Part 50<br>(Appendix O)                         |
| 5.      | Ozone (O <sub>3</sub> )                                       | µg/m <sup>3</sup> | 100     | <20.0  | APHA- Method No.411<br>(44101-02-70T) 2 <sup>nd</sup> edition  |
| 6.      | Lead (Pb)*  | µg/m <sup>3</sup> | 0.5     | 0.06   | IS 5182 (Part 22): 2004 RA<br>2014<br>(Clause 5.0)             |
| 7.      | Carbon Monoxide (CO)*   | mg/m <sup>3</sup> | 2       | 0.20   | IS 5182 (Part 10) : 1999 RA<br>2014<br>(Clause 5.0)            |
| 8.      | Ammonia (NH <sub>3</sub> )                                    | µg/m <sup>3</sup> | 100     | <20.0  | APHA- Method No.401<br>(42604-01-72T), 2 <sup>nd</sup> edition |
| 9.      | Benzene (C <sub>6</sub> H <sub>6</sub> )*                     | µg/m <sup>3</sup> | 5       | 3.56   | IS 5182 (Part 11) : 2006 RA<br>2017 (Clause 4.0)               |
| 10.     | Benzo [a] Pyrene (as BaP)-<br>particulate phase only*         | ng/m <sup>3</sup> | 1       | <1.0   | IS 5182 (Part 12) : 2004<br>RA 2014                            |



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Certificate No.: TC-7572

Report No.: ELPL/QD4/TRD/5.10/AA-13/Dec-19/267 Report Date : 04-01-2020

| Sr. No. | Test Parameters | Unit              | Norms** | Result | Test Method                                  |
|---------|-----------------|-------------------|---------|--------|--|
| 11.     | Arsenic (As)*   | ng/m <sup>3</sup> | 6       | 2.78   | IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0) |
| 12.     | Nickel (Ni)*    | ng/m <sup>3</sup> | 20      | 8.91   | IS 5182 (Part 22): 2004 RA 2014 (Clause 5.0) |

Note : 1. \*indicate that parameters not covered under NABL Scope of Accreditation.  
2. \*\* indicates NAAQS (Govt. of India MoEF Notification No. GSR 826 CE dtd.16-11-2009 as amended).  
3. Test results relates to sample collected & tested. It shall not be reproduced partially or fully without prior approval of ELPL.

Remarks: Ambient air quality is meeting the norms for above parameters



For Earthcare Labs Pvt. Ltd.  
  
(K.L. Jadhav)  
Authorized Signatory &  
CEO





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## Test Report

### Stack Emission Quality

|  |   |
|--|---|
| Report No. : ELPL/QD4/TRD/5.10/S-02&04/Dec-19/81   | Report Date : 04-01-2020                          |
| Name & Address of the Customer : <b>M/s. INVENTYS RESEARCH CO. PVT. LTD.,</b><br>Plot No .K-38, MIDC, Butibori, Dist.- Nagpur. |   |
| Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019  |   |
| Sample Description : Stack Emission  | Sampling Location : D. G. Set 125 KVA             |
| Sampling Ref Method : IS 11255 (Part: 3) 2008  | Environmental Condition : Sunny                   |
| Sample Inward No. : ELPL/Dec-19/55/64/S-81   | (during sampling)                                 |
| Sampling Date : 27-12-19   | Sampled By: ELPL, Representative                  |
| Sample Receipt Date : 27-12-19   |   |
| Stack Height : 3.0 mtr above enclosure   | Temperature of Flue Gas : 142 °C                  |
| Stack Diameter at Port : 0.15 mtr  | Velocity of Flue Gas : 16.1 m/sec                 |
| Type of Fuel : HSD   | Flow Rate of Flue Gas : 715.5 Nm <sup>3</sup> /hr |
| Period of Analysis : From 30-12-19 to 04-01-20   |   |

### Results of Analysis

| Sr. No. | Test Parameters                       | Unit               | Norm** | Result | Test Method                    |
|---------|---------------------------------------|--------------------|--------|--------|--------------------------------|
| 1.      | Total Particulate Matter              | mg/Nm <sup>3</sup> | 150    | 53.2   | IS 11255 (Part 1):1985 RA 2014 |
| 2.      | Sulphur Dioxide (as SO <sub>2</sub> ) | mg/Nm <sup>3</sup> | --     | 38.2   | IS 11255 (Part 2):1985 RA 2014 |
| 3.      | Sulphur Dioxide (as SO <sub>2</sub> ) | kg/hr.             | --     | 0.02   | IS 11255 (Part 2):1985 RA 2014 |

Note : 1. \*indicate that parameters not covered under NABL Scope of Accreditation.  
2. Consent No. Format 1.0/BO/CAC-Cell/UAN No. 14513/4th CAC/1711000857 Dtd. 24-11-2017  
3. Test results relates to sample collected & tested. It shall not be reproduced partially or fully without prior approval of ELPL.

**Remarks:** Outgoing emissions are meeting the norms for above parameters



For Earthcare Labs Pvt. Ltd.

(K.L. Jadhav)  
Authorized Signatory & CEO



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Certificate No.: TC-7572

## Test Report

### Stack Emission Quality

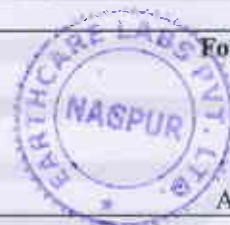
|  |  |
|--|--|
| Report No.: ELPL/QD4/TRD/5.10/S-02&04/Dec-19/82  | Report Date :04-01-2020                              |
| Name & Address of the Customer : <b>M/s. INVENTYS RESEARCH CO. PVT. LTD.,</b><br>Plot No .K-38, MIDC, Butibori, Dist.- Nagpur. |  |
| Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019  |  |
| Sample Description : Stack Emission  | Sampling Location : Boiler No. 01                    |
| Sampling Ref Method : IS 11255 (Part: 3) 2008  | Environmental Condition : Sunny<br>(during sampling) |
| Sample Inward No. : ELPL/Dec-19/55/64/S-82   |  |
| Sampling Date : 27-12-19   | Sampled by : ELPL Representative                     |
| Sample Receipt Date : 27-12-19   |  |
| Stack Height : 27 mtr.   | Temperature of Flue Gas : 178 °C                     |
| Stack Diameter at Port : 0.65 mtr.   | Velocity of Flue Gas : 22.2 m/sec                    |
| Type of Fuel : Biocoal/Biomass Pallets   | Flow Rate of Flue Gas : 16987.5 Nm <sup>3</sup> /hr  |
| Period of Analysis : From 30-12-19 to 04-01-20   |  |

### Results of Analysis

| Sr. No. | Test Parameters                       | Unit               | Norm** | Result | Test Method                    |
|---------|---------------------------------------|--------------------|--------|--------|--------------------------------|
| 1.      | Total Particulate Matter              | mg/Nm <sup>3</sup> | 150    | 82.3   | IS 11255 (Part 1):1985 RA 2014 |
| 2.      | Sulphur Dioxide (as SO <sub>2</sub> ) | mg/Nm <sup>3</sup> | --     | 19.5   | IS 11255 (Part 2):1985 RA 2014 |
| 3.      | Sulphur Dioxide (as SO <sub>2</sub> ) | kg/hr.             | --     | 0.33   | IS 11255 (Part 2):1985 RA 2014 |

Note : 1. \*indicate that parameters not covered under NABL Scope of Accreditation.  
2. \*\* Consent No. Format 1.0/BO/CAC-Cell/UAN No. 14513/4th CAC/1711000857 Dtd. 24-11-2017  
3. Test results relates to sample collected & tested. It shall not be reproduced partially or fully without prior approval of ELPL.

Remarks: Outgoing emissions are meeting the norms for above parameters



For Earthcare Labs Pvt. Ltd.

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Certificate No.: TC-7572

## Test Report Ambient Noise Quality

|   |  |
|---|--|
| Report No.: ELPL/QD4/TRD/5.10/AN/Dec-19/97  | Report Date : 04-01-2020                             |
| Name & Address of the Customer : <b>M/s. INVENTYS RESEARCH CO. PVT. LTD.,</b><br>Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.  |  |
| Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019   |  |
| Sample Description : Ambient Noise<br>Sampling Ref Method :User's Manual SLM 100<br>Sample Inward No. : ELPL/Dec-19/55/64/AN-97 | Sampling Location : Near Security Main Gate          |
|   | Environmental Condition : Sunny<br>(during sampling) |
| Sampling Date : 27-12-19  | Sampled by : ELPL Representative                     |
| Location (Type) : Industrial / Commercial / Residential / Silence   |  |

### Results of Measurements

| Test Parameter                      | During Day Time<br>(Hrly Avg) | During Night Time<br>(Hrly Avg) |
|-------------------------------------|-------------------------------|---------------------------------|
| Equivalent Sound Level<br>Leq dB(A) | 64.6                          | 53.1                            |
| <b>Norms**</b>                      | Industrial Area               | 75                              |
|                                     | Commercial Area               | 65                              |
|                                     | Residential Area              | 55                              |
|                                     | Silence Zone                  | 50                              |

Note : 1. \*indicate that parameters not covered under NABL Scope of Accreditation.

2. \*\*indicates Rule 4 of Noise Pollution (Regulation & Control) Amendment Rules,2000 (S.O. 1046 (E) dtd 22-11-2000

3. Test results relates to sample collected & tested. It shall not be reproduced partially or fully without prior approval of ELPL.

**Remarks:** Ambient Noise level is meeting the norms at above location.



For Earthcare Labs Pvt. Ltd.

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## Test Report Ambient Noise Quality

|   |   |
|---|---|
| Report No.: ELPL/QD4/TRD/5.10/AN/Dec-   | Report Date : 04-01-2020  |
| Name & Address of the Customer : <b>M/s. INVENTYS RESEARCH CO. PVT. LTD.,</b><br>Plot No .K-38, MIDC, Butibori, Dist.- Nagpur.  |   |
| Ref.: Work Order No. PO-MT/0112/19-20/NAG dtd. 06-06-2019   |   |
| Sample Description : Ambient Noise<br>Sampling Ref Method :User's Manual SLM 100<br>Sample Inward No. : ELPL/Dec-19/55/64/AN-98 | Sampling Location : Near Boiler House<br>Environmental Condition : Sunny<br>(during sampling) |
| Sampling Date : 27-12-19  | Sampled by : ELPL Representative  |
| Location (Type) : Industrial / Commercial / Residential/ Silence  |   |

### Results of Measurements

| Test Parameter                      | During Day Time<br>(Hrly Avg) | During Night Time<br>(Hrly Avg) |
|-------------------------------------|-------------------------------|---------------------------------|
| Equivalent Sound Level<br>Leq dB(A) | 73.3                          | 67.1                            |
| <b>Norms**</b>                      | Industrial Area               | 70                              |
|                                     | Commercial Area               | 55                              |
|                                     | Residential Area              | 45                              |
|                                     | Silence Zone                  | 40                              |

- Note : 1. \*indicate that parameters not covered under NABL Scope of Accreditation.  
2. \*\*indicates Rule 4 of Noise Pollution (Regulation & Control) Amendment Rules,2000 (S.O. 1046 (E) dtd 22-11-2000  
3. Test results relates to sample collected & tested. It shall not be reproduced partially or fully without prior approval of ELPL.

**Remarks:** Ambient Noise level is meeting the norms at above location.



For Earthcare Labs Pvt. Ltd.

(K.L. Jadhav)  
Authorized Signatory & CEO