



Analyzing for an Assured
Future

NOIDA TESTING LABORATORIES

(A Government Approved Testing Laboratory)

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

MoEF & CC (Ministry of Environment, Forest & Climate Change), EPPCB & HSPCB Recognized Laboratory

+91-9313611642, 85100081921, 7503031145, 8527870572, 7503031146, 9999794369

TEST CERTIFICATE

| | | |
|----------------|--------------|---------------|
| Test Report of | Report Code | Date of Issue |
| Drinking water | W-140322-058 | 21/03/2022 |

Issued To: M/s Lalitpur Power Generation Company Limited
 Address: Village- Mirchwara and Burogaon, Tehsil- Mahroni, Lalitpur-284123 (U.P) India

SAMPLING & ANALYSIS DATA

Sample Drawn on : 10/03/2022
 Sample Drawn By : Mr. Deepak Sharma (NTTL)
 Sample Received On : 14/03/2022
 Sample Quantity : 2.0 Lt.
 Analysis Duration : 14/03/2022 to 21/03/2022
 Sample Description : Drinking water Collected from Plant Canteen

MICROBIOLOGICAL REQUIREMENT RESULT

| S.No. | Parameter | Test Method | Results | Requirements as per IS-10500:2012 |
|-------|--------------------------|-------------|---------|-----------------------------------|
| 1. | <i>Escherichia coli</i> | IS-15185 | Absent | Absent/100ml |
| 2. | <i>Coliform Bacteria</i> | IS-15185 | Absent | Absent/100ml |

ORGANOLEPTIC & PHYSICAL PARAMETERS

| S.No. | Parameter | Test Method | Result | Unit | Requirement (Acceptable Limit) | Permissible Limit in absence of alternate source |
|-------|----------------------------|--------------------|-----------|------------|--------------------------------|--|
| 1. | Colour | IS-3025(P-04) | <1.00 | Hazen Unit | 5 | 15 |
| 2. | Odour | IS-3025(P-05) | Agreeable | - | Agreeable | Agreeable |
| 3. | Taste | IS-3025(P-07 & 08) | Agreeable | - | Agreeable | - |
| 4. | Turbidity | IS-3025(P-10) | <1.00 | NTU | 1 | 5 |
| 5. | pH value | IS-3025(P-11) | 6.72 | - | 6.5 - 8.5 | - |
| 6. | Total dissolve solid (TDS) | IS-3025(P-16) | 86.0 | mg/l | 500 | 2000 |

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

| S.No. | Parameter | Test method | Result | Unit | Requirement (Acceptable Limit) | Permissible Limit in absence of alternate source |
|-------|------------------------------|---------------------|--------|------|--------------------------------|--|
| 1. | Aluminium (as Al) | IS: 3025 (P- 55) | <0.01 | mg/l | 0.03 | 0.2 |
| 2. | Total Ammonia | IS: 3025 (P- 34) | <0.10 | mg/l | 0.5 | No Relaxation |
| 3. | Anionic Detergents (as MBAS) | Annex K of IS-13428 | <0.10 | mg/l | 0.2 | 1.0 |
| 4. | Barium (as Ba) | IS: 15302 | <0.10 | mg/l | 0.7 | No Relaxation |
| 5. | Boron (as B) | IS: 3025 (P- 57) | <0.10 | mg/l | 0.5 | 2.4 |
| 6. | Calcium (as Ca) | IS: 3025 (P- 40) | 34.26 | mg/l | 75 | 200 |

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| S.No. | Parameter | Test method | Result | Unit | Requirement (Acceptable Limit) | Permissible Limit in absence of alternate source |
|-------|---|----------------------|--------|------|--------------------------------|--|
| 7. | Chloramines (as Cl ₂) | IS: 3025 (P-26) | <1.00 | mg/l | 4.0 | No Relaxation |
| 8. | Chloride (as Cl) | IS: 3025 (P-32) | 16.8 | mg/l | 250 | 1000 |
| 9. | Fluoride (as F) | IS: 3025 (P-60) | <0.1 | mg/l | 1.0 | 1.5 |
| 10. | Free Residual Chlorine | IS: 3025 (P-26) | BDL | mg/l | 0.2 | 1.0 |
| 11. | Iron (as Fe) | IS: 3025(P-53) | <0.05 | mg/l | 1.0 | No Relaxation |
| 12. | Magnesium (as Mg) | IS: 3025 (P-46) | 4.27 | mg/l | 30 | 100 |
| 13. | Manganese (as Mn) | Clause 35 of IS 3025 | <0.1 | mg/l | 0.1 | 0.3 |
| 14. | Nitrate (as NO ₃) | IS: 3025 (P-34) | <1.0 | mg/l | 45 | No Relaxation |
| 15. | Selenium (as Se) | IS: 3025 (P-56) | BDL | mg/l | 0.01 | No Relaxation |
| 16. | Silver (as Ag) | Annex J IS: 13428 | BDL | mg/l | 0.1 | No Relaxation |
| 17. | Sulphate (as SO ₄) | IS: 3025 (P-24) | 2.58 | mg/l | 200 | 400 |
| 18. | Sulphide (as H ₂ S) | IS-3025 (P-29) | BDL | mg/l | 0.05 | No Relaxation |
| 19. | Alkalinity (as Ca CO ₃) | IS: 3025 (P-23) | 71.0 | mg/l | 200 | 600 |
| 20. | Total Hardness (as CaCO ₃) | IS: 3025 (P-23) | 68.0 | mg/l | 200 | 600 |
| 21. | Zinc (as Zn) | IS: 3025 (P-49) | <0.1 | mg/l | 5.0 | 15 |
| 22. | Phenolic Compound as (C ₆ H ₅ OH) | IS: 3025 (P-43) | BDL | mg/l | 0.001 | 0.002 |

| S.No. | Parameter | Test method | Result | Unit | Requirement (Acceptable Limit) | Permissible Limit in absence of alternate source |
|-------|-------------------------------------|---------------|---------|------|--------------------------------|--|
| 1. | Cadmium (as Cd) | IS-3025(P-41) | <0.001 | mg/l | 0.003 | No Relaxation |
| 2. | Cyanide (as CN) | IS-3025(P-27) | <0.01 | mg/l | 0.05 | No Relaxation |
| 3. | Lead (as Pb) | IS-3025(P-47) | <0.01 | mg/l | 0.01 | No Relaxation |
| 4. | Mercury (as Hg) | IS-3025(P-48) | <0.001 | mg/l | 0.001 | No Relaxation |
| 5. | Molybdenum (Mo) | IS-3025(P-2) | <0.05 | mg/l | 0.07 | No Relaxation |
| 6. | Nickel (as Ni) | IS-3025(P-54) | <0.01 | mg/l | 0.02 | No Relaxation |
| 7. | Poly nuclear Aromatic Hydro Carbons | APHA 6440 | <0.0001 | mg/l | 0.0001 | No Relaxation |
| 8. | Poly chlorinated biphenyl | APHA 6630 | <0.0001 | mg/l | 0.0005 | No Relaxation |
| 9. | Total Arsenic (as As) | IS-3025(P-37) | <0.01 | mg/l | 0.01 | No Relaxation |
| 10. | Total Chromium (as Cr) | IS-3025(P-52) | <0.05 | mg/l | 0.05 | No Relaxation |

BDL: Below Detection limit.

Remarks: Based on above tested parameter, Water sample meet as per IS-10500:2012 specification. Water is fit for drinking purpose.

Notes:

1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
2. Responsibility of the Laboratory is limited to the invoiced amount only.
3. This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
4. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

CHECKED BY



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| Drinking water | W-140322-059 | 21/03/2022 |

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 Address: **Village- Mirchwara and Burogaon, Tehsil- Mahroni, Lalitpur-284123 (U.P) India**

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| 1. | <i>Escherichia coli</i> | IS-15185 | Absent | Absent/100ml |
| 2. | <i>Coliform Bacteria</i> | IS-15185 | Absent | Absent/100ml |

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| 2. | Odour | IS-3025(P-05) | Agreeable | - | Agreeable | Agreeable |
| 3. | Taste | IS-3025(P-07 & 08) | Agreeable | - | Agreeable | - |
| 4. | Turbidity | IS-3025(P-10) | <1.00 | NTU | 1 | 5 |
| 5. | pH value | IS-3025(P-11) | 6.86 | - | 6.5 - 8.5 | - |
| 6. | Total dissolve solid (TDS) | IS-3025(P-16) | 121.0 | mg/l | 500 | 2000 |

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

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| 2. | Total Ammonia | IS: 3025 (P-34) | <0.10 | mg/l | 0.5 | No Relaxation |
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| 4. | Barium (as Ba) | IS: 15302 | <0.10 | mg/l | 0.7 | No Relaxation |
| 5. | Boron (as B) | IS: 3025 (P-57) | <0.10 | mg/l | 0.5 | 2.4 |
| 6. | Calcium (as Ca) | IS: 3025 (P-40) | 51.38 | mg/l | 75 | 200 |

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| 10. | Free Residual Chlorine | IS: 3025 (P-26) | BDL | mg/l | 0.2 | 1.0 |
| 11. | Iron (as Fe) | IS: 3025(P-53) | <0.05 | mg/l | 1.0 | No Relaxation |
| 12. | Magnesium (as Mg) | IS: 3025 (P-46) | 11.24 | mg/l | 30 | 100 |
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| 19. | Alkalinity (as Ca CO ₃) | IS: 3025 (P-23) | 89.0 | mg/l | 200 | 600 |
| 20. | Total Hardness (as CaCO ₃) | IS: 3025 (P-23) | 82.0 | mg/l | 200 | 600 |
| 21. | Zinc (as Zn) | IS: 3025 (P-49) | <0.1 | mg/l | 6.0 | 15 |
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