



Analyzing for an Assured
Future

NOIDA TESTING LABORATORIES

(An ISO : 9001 : 2015, ISO 14001:2015 & ISO 45001:2018 & NABL Accredited Laboratory)
MoEF & CC (Ministry of Environment, Forest & Climate Change), UPCCB & HSPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369

TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ground Water	W-281220-03	02/01/2021

Issued To: **M/S Lalitpur Power Generation Company Limited**
Village-Mirchwara & Buragaon Tehsil-Mehroni Distt- Lalitpur (U.P) India

SAMPLING & ANALYSIS DATA

Sample Received on : 28/12/2020
Sample Drawn By : Mr. Sonu Sharma (NTL)
Sample Drawn On : 27/12/2020
Sample Quantity : 2.0 Lt.
Analysis Duration : 28/12/2020 To 02/01/2021
Sample Description : Ground Water collected from Near- Udaypura
Railway Hand Pump

MICROBIOLOGICAL REQUIREMENT

RESULTS				
S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-1622	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-1622	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)	<1.0	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)	<1.0	NTU	1	5
5.	pH value	IS-3025(P-04)	6.88	-	6.5-8.5	-
6.	Total dissolve solid (TDS)	IS-3025(P-16)	598	mg/l	500	2000

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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.	Aluminum (as Al)	IS: 3025 (P- 55)	0.096	mg/l	0.03	0.2
2.	Total Ammonia	IS: 3025 (P- 34)	<0.1	mg/l	0.5	No Relaxation
3.	Anionic surface Detergents(as MBAS)	Annex K of IS-13428	<0.1	mg/l	0.2	1.0
4.	Barium (as Ba)	IS: 15302	<0.1	mg/l	0.7	No Relaxation
5.	Boron (as B)	IS: 3025 (P- 57)	<0.1	mg/l	0.5	1.0
6.	Calcium (as Ca)	IS: 3025 (P- 40)	96.19	mg/l	75	200
7.	Chloramines (as Cl ₂)	IS: 3025 (P- 26)	<1.0	mg/l	4.0	No Relaxation
8.	Chloride (as Cl)	IS: 3025 (P- 32)	58.70	mg/l	250	1000
9.	Copper (as Cu)	IS : 3025 (P-42)	<0.05	mg/l	0.05	1.5
10.	Fluoride (as F)	IS: 3025 (P-60)	0.380	mg/l	1.0	1.5
11.	Free Residual Chlorine	IS: 3025 (P-26)	<0.1	mg/l	0.2	1.0
12.	Iron (as Fe)	IS: 3025(P-53)	0.276	mg/l	0.3	No Relaxation
13.	Magnesium (as Mg)	IS: 3025 (P-46)	41.80	mg/l	30	100
14.	Manganese (as Mn)	Clause 35 of IS 3025	0.072	mg/l	0.1	0.3
15.	Mineral Oil	Clause 6 of IS: 3025	<0.5	mg/l	0.5	No Relaxation
16.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	5.41	mg/l	45	No Relaxation
17.	Selenium (as Se)	IS: 3025 (P- 56)	<0.01	mg/l	0.01	No Relaxation
18.	Silver (as Ag)	Annex J IS: 13428	<0.05	mg/l	0.1	No Relaxation
19.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	46.12	mg/l	200	400
20.	Sulphide(as H ₂ S)	IS-3025 (P-29)	<0.05	mg/l	0.05	No Relaxation
21.	Alkalinity (as Ca CO ₃)	IS: 3025 (P- 23)	288	mg/l	200	600
22.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 21)	412	mg/l	200	600
23.	Zinc (as Zn)	IS: 3025 (P- 49)	0.142	mg/l	5.0	15

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Parameters Concerning Toxic Substances:

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)	Annex L of IS-13428	0.012	mg/l	0.02	No Relaxation
7.	Poly nuclear Aromatic	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.	Arsenic (as As)	IS-3025(P-37)	<0.01	mg/l	0.01	0.05
10.	Total Chromium (as Cr)	Annex J of IS-13428	<0.05	mg/l	0.05	No Relaxation

Remarks: Based on above tested parameter, Water sample does not meet as per IS-10500:2012 in desirable limit, but fall in extended limit, Water can be drink if there is no alternative source.

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. This test report will not be used for any publicity/legal purpose.
5. The test samples will be disposed off after two weeks from the date of issue of test report, unless until specified by the customer.

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CHECKED BY

AUTHORIZED SIGNATORY





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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ground Water	W-281220-02	02/01/2021

Issued To: **M/S Lalitpur Power Generation Company Limited**
Village-Mirchwara & Buragaon Tehsil-Mehroni Distt- Lalitpur (U.P) India

SAMPLING & ANALYSIS DATA

Sample Received on : 28/12/2020
Sample Drawn By : Mr. Sonu Sharma (NTL)
Sample Drawn On : 27/12/2020
Sample Quantity : 2.0 Lt.
Analysis Duration : 28/12/2020 To 02/01/2021
Sample Description : Ground Water Collected from Semra Village Hand Pump

MICROBIOLOGICAL REQUIREMENT

RESULTS				
S.No.	Parameter	Test Method	Results	Required as per IS-10500:2012
1.	<i>Escherichia coli</i>	IS-1622	Absent	Absent/100ml
2.	<i>Coliform Bacteria</i>	IS-1622	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)	<1.0	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)	<1.0	NTU	1	5
5.	pH value	IS-3025(P-04)	6.85	-	6.5-8.5	-
6.	Total dissolve solid (TDS)	IS-3025(P-16)	804	mg/l	500	2000

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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.	Aluminum (as Al)	IS: 3025 (P- 55)	0.102	mg/l	0.03	0.2
2.	Total Ammonia	IS: 3025 (P- 34)	<0.1	mg/l	0.5	No Relaxation
3.	Anionic surface Detergents(as MBAS)	Annex K of IS-13428	<0.1	mg/l	0.2	1.0
4.	Barium (as Ba)	IS: 15302	<0.1	mg/l	0.7	No Relaxation
5.	Boron (as B)	IS: 3025 (P- 57)	<0.1	mg/l	0.5	1.0
6.	Calcium (as Ca)	IS: 3025 (P- 40)	126.6	mg/l	75	200
7.	Chloramines (as Cl ₂)	IS: 3025 (P- 26)	<1.0	mg/l	4.0	No Relaxation
8.	Chloride (as Cl)	IS: 3025 (P- 32)	121.3	mg/l	250	1000
9.	Copper (as Cu)	IS : 3025 (P-42)	<0.05	mg/l	0.05	1.5
10.	Fluoride (as F)	IS: 3025 (P-60)	0.721	mg/l	1.0	1.5
11.	Free Residual Chlorine	IS: 3025 (P-26)	<0.1	mg/l	0.2	1.0
12.	Iron (as Fe)	IS: 3025(P-53)	1.94	mg/l	1.0	No Relaxation
13.	Magnesium (as Mg)	IS: 3025 (P-46)	12.46	mg/l	30	100
14.	Manganese (as Mn)	Clause 35 of IS 3025	0.062	mg/l	0.1	0.3
15.	Mineral Oil	Clause 6 of IS: 3025	<0.5	mg/l	0.5	No Relaxation
16.	Nitrate (as NO ₃)	IS: 3025 (P- 34)	6.10	mg/l	45	No Relaxation
17.	Selenium (as Se)	IS: 3025 (P- 56)	<0.01	mg/l	0.01	No Relaxation
18.	Silver (as Ag)	Annex J IS: 13428	<0.05	mg/l	0.1	No Relaxation
19.	Sulphate (as SO ₄)	IS: 3025 (P- 24)	68.51	mg/l	200	400
20.	Sulphide(as H ₂ S)	IS-3025 (P-29)	<0.05	mg/l	0.05	No Relaxation
21.	Alkalinity (as Ca CO ₃)	IS: 3025 (P- 23)	212	mg/l	200	600
22.	Total Hardness (as CaCO ₃)	IS: 3025 (P- 23)	528	mg/l	200	600
23.	Zinc (as Zn)	IS: 3025 (P- 49)	0.026	mg/l	5.0	15

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