



# NOIDA TESTING LABORATORIES

(A Government Approved Testing Laboratory)

(An ISO : 9001 : 2015, 14001 : 2015 & ISO 45001 : 2018 & NABL Accredited Laboratory)

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

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

Analyzing for an Assured Future

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ground Water	W-130321-04	25/03/2021

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 : 13/03/2021  
 Sample Drawn By : Mr. Amit Sharma (NTL)  
 Sample Drawn On : 12/03/2021  
 Sample Quantity : 2.0 Lt.  
 Analysis Duration : 13/03/2021 To 25/03/2021  
 Sample Description : Water sample Collected from Mirchwara 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)	6.38	-	6.5-8.5	-
6.	Total dissolve solid ( TDS)	IS-3025(P-16)	728	mg/l	500	2000

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Laboratory : GT-20, Sector-117, Noida Gautam Budh Nagar - 201301

Branch Office : IP-2, Haridwar, Uttrakhand

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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)	<0.01	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 <sub>2</sub> )	IS: 3025 (P- 26)	<1.0	mg/l	4.0	No Relaxation
8.	Chloride (as Cl)	IS: 3025 (P- 32)	103.71	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)	0.54	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)	0.341	mg/l	1.0	No Relaxation
13.	Magnesium (as Mg)	IS: 3025 (P-46)	42.77	mg/l	30	100
14.	Manganese (as Mn)	Clause 35 of IS 3025	2.84	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 <sub>3</sub> )	IS: 3025 (P- 34)	7.85	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 <sub>4</sub> )	IS: 3025 (P- 24)	70.95	mg/l	200	400
20.	Sulphide(as H <sub>2</sub> S)	IS-3025 (P-29)	<0.05	mg/l	0.05	No Relaxation
21.	Alkalinity ( as Ca CO <sub>3</sub> )	IS: 3025 (P- 23)	208	mg/l	200	600
22.	Total Hardness (as CaCO <sub>3</sub> )	IS: 3025 (P- 23)	416	mg/l	200	600
23.	Zinc (as Zn)	IS: 3025 (P- 49)	0.072	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	<0.01	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	<0.01	mg/l	0.05	No Relaxation

**Remarks:** Based on above tested parameter, Water sample does not meet as per IS-10500:2012 limit. Water is not 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. 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.

CHECKED BY

AUTHORIZED SIGNATORY



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## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ground Water	W-130321-03	25/03/2021

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 : 13/03/2021  
 Sample Drawn By : Mr. Amit Sharma (NTL)  
 Sample Drawn On : 12/03/2021  
 Sample Quantity : 2.0 Lt.  
 Analysis Duration : 13/03/2021 To 25/03/2021  
 Sample Description : Ground Water collected from Near- 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
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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)	<1.0	NTU	1	5
5.	pH value	IS-3025(P-04)	6.72	-	6.5-8.5	-
6.	Total dissolve solid ( TDS)	IS-3025(P-16)	494	mg/l	500	2000

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