



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
Coal Sample	MS-281220-03	02/01/2021

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

Sample Received On : 28/12/2020
Sample Drawn On : 27/12/2020
Sample Description : Coal Sample
Sampling Site : Coal Yard
Sampling Procedure : IS: 436 Part-1
Sample Received Via : Courier
Analysis Duration : 28/12/2020 to 02/01/2021

TEST RESULTS

S.No.	Name of Parameters	Protocol Used	Observe Value
1.	Gross Calorific Value, Cal /g (On Air dry basis)	IS:3050(Pt-II), Reaff-2005 Guideline & by Calculation	3789
2.	Proximate Analysis % by mass (On air dried basis)		
(a)	Inherent Moisture (%by mass)	IS:3050(Pt-I) 1984, Reaff-2007 Guidelines	10.6
(b)	Ash (%by mass)	IS:3050(Pt-I) 1984, Reaff-2007 Guidelines	32.42
(c)	Volatile Matter (%by mass)	IS:3050(Pt-I) 1984, Reaff-2007 Guidelines	27.76
(d)	Fixed Carbon (by Diff.) (%by mass)	IS:3050(Pt-I) 1984, Reaff-2007 Guidelines	29.21
(e)	Total Moisture Content (%by mass)	IS:3050(Pt-I) 1984, Reaff-2007 Guidelines	10.61
(f)	Sulphur Content (% by mass)	IS:3050(Pt-II) 1984, Reaff-2007 Guidelines	0.208
3.	Ash Analysis (mg/Kg)		
(a)	Mercury Content (as Hg) (mg/kg)	APHA-23 ^{edit} -2013 (Atomic With Cold Vapor Technique)	BDL
(b)	Lead Content (as Pb) (mg/kg)	US EPA-5052 (B)	9.89
(c)	Arsenic Content (as As) (mg/kg)	US EPA-5052 (B)	BDL
(d)	Cadmium content (as Cd) (mg/kg)	US EPA-5052 (B)	BDL

BDL- Below detection Limit

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.
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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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AUTHORIZED SIGNATORY



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

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Fly Ash	MS-281220-02	02/01/2021

Issued To: **MS Lalitpur Power Generation Company Limited**
Village- Mirchwara and Burogaon, Tehsil- Mahroni, Lalitpur-284123 (U.P)
India

SAMPLING & ANALYSIS DATA

Sample Received On : 28/12/2020
 Sampling Drawn On : 27/12/2020
 Sampling by : Mr. Sonu Sharma (NTL)
 Sampling Location : ASH SILO
 Sample Description : Fly Ash
 Analysis Duration : 28/12/2020 to 02/01/2021

Fly Ash			
S.No	Parameters	Result	Unit
	Moisture Content	15.80	% By Mass
ON OVEN DRY BASIS			
1.	Loss on Ignition	0.56	% By mass
2.	Total Silica Content (SiO ₂)	63.24	% By Mass
3.	Iron Oxide (as Fe ₂ O ₃)	6.80	% By Mass
4.	Aluminum Oxide (as Al ₂ O ₃)	14.42	% By Mass
5.	Calcium Oxide (CaO)	10.31	% By Mass
6.	Magnesium Oxide (MgO)	1.62	% By Mass
7.	Sodium Oxide (as Na ₂ O ₃)	0.50	% By Mass
8.	Potassium dioxide (as K ₂ O)	1.62	% By Mass
9.	Phosphate (as P ₂ O ₅)	1.51	% by mass
10.	Lead (as Pb)	10.9	mg/Kg
11.	Total Chromium (as Cr)	BDL	mg/Kg
12.	Mercury (as Hg)	BDL	mg/Kg
13.	Arsenic (as As)	BDL	mg/Kg

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Bottom Ash	MS-281220-01	02/01/2021

Issued To: **MS Lalitpur Power Generation Company Limited**
Village- Mirchwara and Burogaon, Tehsil- Mahroni, Lalitpur-284123 (U.P)
India

SAMPLING & ANALYSIS DATA

Sample Received On : 28/12/2020
Sampling Drawn On : 27/12/2020
Sampling by : Mr. Sonu Sharma (NTL)
Sampling Location : ASH SILO
Sample Description : Bottom Ash
Analysis Duration : 28/12/2020 To 02/01/2021

Bottom Ash			
S.No	Parameters	Result	Unit
	Moisture Content	16.21	% By Mass
ON OVEN DRY BASIS			
1.	Loss on Ignition	0.51	% By mass
2.	Total Silica Content (SiO ₂)	63.82	% By Mass
3.	Iron Oxide (as Fe ₂ O ₃)	6.76	% By Mass
4.	Aluminum Oxide (as Al ₂ O ₃)	14.21	% By Mass
5.	Calcium Oxide (CaO)	9.56	% By Mass
6.	Magnesium Oxide (MgO)	1.56	% By Mass
7.	Sodium Oxide (as Na ₂ O ₃)	0.58	% By Mass
8.	Potassium dioxide (as K ₂ O)	1.76	% By Mass
9.	Phosphate (as P ₂ O ₅)	1.56	% by mass
10.	Lead (as Pb)	11.36	mg/Kg
11.	Total Chromium (as Cr)	BDL	mg/Kg
12.	Mercury (as Hg)	BDL	mg/Kg
13.	Arsenic (as As)	BDL	mg/Kg

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