



Analyzing for an Assured
Future

NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)

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

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

TEST CERTIFICATE

Issued To: M/s Lalitpur Power Generation
Company Limited

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

Report Code : ST-280325-020
ULR No. : TC681425000002171F
Test Report of : Stack Emission
Discipline : Atmospheric Pollution
Service Request No : NTL/SRF/03/25-02
Service Request Date : 24/03/2025
Report Issue Date : 02/04/2025

SAMPLING & ANALYSIS DATA

Sample Drawn on : 25/03/2025
Sample Drawn By : Mr. Akash (NTL)
Sample Description : Stack Emission
Sampling Time : 30 (12:00 PM to 12:30 PM)
Sampling Plan & Procedure : SOP/SE/09
Analysis Duration : 28/03/2025 to 02/04/2025
Stack Temperature (°C) : 121
Source of Emission : Stack Attached to Boilers No. - 01
Attached APCS : ESP
Type of Fuel used : Coal
Quantity of Flue Used : 238 ton/Hrs
Load During Monitoring : 370 MW
Type of Stack : RCC
Diameter of Stack (meter) (at port Hole) : 7.5
Height of Stack above ground level (meter) : 275
Average Velocity of Flue Emission (m/s) : 12.2
Quantity Of Emission Discharge (Nm³/hr) : 1902556.40

TEST RESULT

S.N.	Parameter	Test Method	Results	Units	CPCB Emission Standard for Boiler
1.	Particulate Matter (PM)	IS:11255(Part-1)	32.18	mg/Nm ³	50
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)	722.0	mg/Nm ³	200
3.	Nitrogen dioxide (as NO ₂)	IS:11255(Part-7)	342.0	mg/Nm ³	450
4.	Carbon dioxide (as CO)	IS:13270	0.0038	% by Volume	1% Volume
5.	Mercury (as Hg)	AAS Method	BDL	mg/Nm ³	0.03

*BDL – Below Detection Limit

Remark-The Standard limit shall be applicable w.e.f Dec 2017 onwards as per Govt. Notification Dated 07/12/2015

Notes:

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AUTHORIZED SIGNATORY

Laboratory : GT-20, Sector-117, Gautam Budh Nagar - 201 301 (U.P.)

Branch Office :

HARIDWAR | DEHRADUN | PUNE

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

Report Code : ST-280325-021
ULR No. : TC681425000002172F
Test Report of : Stack Emission
Discipline : Atmospheric Pollution
Service Request No : NTL/SRF/03/25-02
Service Request Date : 24/03/2025
Report Issue Date : 02/04/2025

SAMPLING & ANALYSIS DATA

Sample Drawn on : 25/03/2025
Sample Drawn By : Mr. Akash (NTL)
Sample Description : Stack Emission
Sampling Time : 30 (11:00 AM to 11:30 AM)
Sampling Plan & Procedure : SOP/SE/09
Analysis Duration : 28/03/2025 to 02/04/2025
Stack Temperature (°C) : 125
Source of Emission : Stack Attached to Boilers No. - 02
Attached APCS : ESP
Type of Fuel used : Coal
Quantity of Flue Used : 242 ton/Hrs
Load During Monitoring : 365 MW
Type of Stack : RCC
Diameter of Stack(meter) (at port Hole) : 7.5
Height of Stack above ground level(meter) : 275
Average Velocity of Flue Emission (m/s) : 12.80
Quantity Of Emission Discharge (Nm³/hr) : 2011785.50

TEST RESULT

S.N.	Parameter	Test Method	Results	Units	CPCB Emission Standard for Boiler
1.	Particulate Matter (PM)	IS:11255(Part-1)	40.11	mg/Nm ³	50
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)	690.0	mg/Nm ³	200
3.	Nitrogen dioxide (as NO ₂)	IS:11255(Part-7)	312.0	mg/Nm ³	450
4.	Carbon dioxide (as CO)	IS:13270	0.0046	% by Volume	1% Volume
5.	Mercury (as Hg)	AAS Method	BDL	mg/Nm ³	0.03

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Remark-The Standard limit shall be applicable w.e.f Dec 2017 onwards as per Govt. Notification Dated 07/12/2015

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Address: Village- Mirchwara and Burogaon,
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Report Code : ST-280325-022
ULR No. : TC681425000002173F
Test Report of : Stack Emission
Discipline : Atmospheric Pollution
Service Request No : NTL/SRF/03/25-02
Service Request Date : 24/03/2025
Report Issue Date : 02/04/2025

SAMPLING & ANALYSIS DATA

Sample Drawn on : 25/03/2025
Sample Drawn By : Mr. Akash (NTL)
Sample Description : Stack Emission
Sampling Time : 30 (11:30 AM to 12:00 PM)
Sampling Plan & Procedure : SOP/SE/09
Analysis Duration : 28/03/2025 to 02/04/2025
Stack Temperature (°C) : 128
Source of Emission : Stack Attached to Boilers No. - 03
Attached APCS : ESP
Type of Fuel used : Coal
Quantity of Flue Used : 235 ton/Hrs
Load During Monitoring : 336 MW
Type of Stack : RCC
Diameter of Stack(meter) (at port Hole) : 7.5
Height of Stack above ground level(meter) : 275
Average Velocity of Flue Emission (m/s) : 14.20
Quantity Of Emission Discharge (Nm³/hr) : 2156830.20

TEST RESULT

S.N.	Parameter	Test Method	Results	Units	CPCB Emission Standard for Boiler
1.	Particulate Matter (PM)	IS:11255(Part-1)	37.40	mg/Nm ³	50
2.	Sulphur dioxide (as SO ₂)	IS:11255(Part-2)	773.0	mg/Nm ³	200
3.	Nitrogen dioxide (as NO ₂)	IS:11255(Part-7)	298.0	mg/Nm ³	450
4.	Carbon dioxide (as CO)	IS:13270	0.0056	% by Volume	1% Volume
5.	Mercury (as Hg)	AAS Method	BDL	mg/Nm ³	0.03

*BDL - Below Detection Limit

Remark-The Standard limit shall be applicable w.e.f Dec 2017 onwards as per Govt. Notification Dated 07/12/2015

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Address: Village- Mirchwara and Burogaon,
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Report Code : ST-280325-033
ULR No. : TC681425000002184F
Test Report of : Stack Emission
Discipline : Atmospheric Pollution
Service Request No : NTL/SRF/03/25-02
Service Request Date : 24/03/2025
Report Issue Date : 02/04/2025

SAMPLING & ANALYSIS DATA

Sample Drawn on : 27/03/2025
Sample Drawn By : Mr. Akash (NTL Representative)
Sample Description : Stack Emission
Sampling Time : 30 minutes
Sampling Plan & Procedure : SOP/SE/09
Analysis Duration : 28/03/2025 to 02/04/2025
Stack Temperature (°C) : 261
Source of Emission : Stack Attached to Unit -2 (D.G. No.2)
Capacity : 2000 KVA
Type of Fuel used : HSD
Fuel Consumed per Hours : 190 -200 lph
Operating Load : 76.8%
Normal Operation Schedule : As per requirement
Type of Stack : Metal circular
Diameter of Stack (inch) : 12.0
Height of Stack from ground level (feet) : 90.0
Average Velocity of Flue Emission (m/sec) : 14.6
Quantity of emission (Nm³/ hr) : 3016
Pollution Control Device (If Any) : Nil

TEST RESULT				Emission limit
S.N.	Parameter	Test Method	Test Value	
1.	Particulate matter (PM) (at 15% O ₂) mg/Nm ³	IS-11255(P-1)	36.01	50
2.	Sulphur dioxide (as SO ₂), mg/Nm ³	IS:11255(Part-2)	42.89	Not Specified
3.	Nitrogen dioxide (NO ₂) (at 15% O ₂) mg/Nm ³	IS:11255(Part-7)	476.0	650
4.	Carbon monoxide (as CO) (at 15% O ₂) mg/Nm ³	IS:13270	38.80	100
5.	NMHC (as C) (at 15% O ₂) mg/Nm ³	NTL/CHEM/SOP-018	36.40	100

NOTE-1: 1. Oxygen was observed to be 10.8% during the monitoring.
2. Emission limits mentioned above as per MoEF Notification.

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