



Analyzing for an assured
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NOIDA TESTING LABORATORIES

(A Government Approved Testing Laboratory)

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

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-140322-01	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 By : Mr. Deepak Sharma / Umashankar Sharma (NTL)
 Sample Drawn On : 09/03/2022 to 10/03/2022
 Date of Sample Received : 14/03/2022
 Sample Description : Ambient Air
 Sampling Location : Near-Admin Block
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 14/03/2022 to 21/03/2022
 Average Flow Rate of SPM (m³/min.) : 1.08
 Average Flow Rate of Gases (lpm) : 1.0
 Sampling Instrument Used : Respirable Dust Sampler (PM₁₀) Fine Particulate Sampler (PM_{2.5}) With Gaseous Attachment

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM ₁₀)	IS:5182 Part-XXIII	42.0	µg /m ³	100
2.	Particulate Matter (PM _{2.5})	IS:5182 Part-XXIV	20.1	µg /m ³	60
3.	Sulphur dioxide (as SO ₂)	IS:5182 Part-II	7.16	µg /m ³	80
4.	Nitrogen dioxide (as NO ₂)	IS:5182 Part-VI	18.20	µg /m ³	80
5.	Carbon monoxide (as CO)	IS:5182 Part-X	1105	µg /m ³	4000
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.1	µg /m ³	1.0
7.	Nickel (as Ni)	APHA-AIR420	<20	ng /m ³	20.0
8.	Arsenic (as As)	APHA-AIR302	<5.0	ng /m ³	6.0
9.	Ozone (as O ₃)	IS:5182 Part-IX	44.0	µg /m ³	180.0
10.	Ammonia (as NH ₃)	IS:5182 Part-XXV	<20.0	µg /m ³	400.0
11.	Benzene (as C ₆ H ₆)	IS:5182 Part-XI	<1.0	µg /m ³	5.0
12.	Benzo(a) Pyrine- Particulate phase only	IS:5182 Part-XII	<1.0	ng /m ³	1.0
13.	Mercury Content (as Hg)	APHA-AIR (ICP-MS)	BDL	µg /m ³	No limit Specified

BDL- Below detection limit

Notes:

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

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AUTHORIZED SIGNATORY



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

Branch Office :

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-140322-02	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 By : Mr. Deepak Sharma / Umashanker Sharma (NTTL)
Sample Drawn On : 09/03/2022 to 10/03/2022
Date of Sample Received : 14/03/2022
Sample Description : Ambient Air
Sampling Location : Near-Gate No-2
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 14/03/2022 to 21/03/2022
Average Flow Rate of SPM ($m^3/min.$) : 1.12
Average Flow Rate of Gases (lpm) : 1.0
Sampling Instrument Used : Respirable Dust Sampler (PM_{10}) Fine Particulate Sampler ($PM_{2.5}$) With Gaseous Attachment

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM_{10})	IS:5182 Part-XXIII	48.0	$\mu g/m^3$	100
2.	Particulate Matter ($PM_{2.5}$)	IS:5182 Part-XXIV	22.0	$\mu g/m^3$	60
3.	Sulphur dioxide (as SO_2)	IS:5182 Part-II	8.16	$\mu g/m^3$	80
4.	Nitrogen dioxide (as NO_2)	IS:5182 Part-VI	19.28	$\mu g/m^3$	80
5.	Carbon monoxide (as CO)	IS:5182 Part-X	1215	$\mu g/m^3$	4000
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.1	$\mu g/m^3$	1.0
7.	Nickel (as Ni)	APHA-AIR420	<20	ng/m^3	20.0
8.	Arsenic (as As)	APHA-AIR302	<5.0	ng/m^3	6.0
9.	Ozone (as O_3)	IS:5182 Part-IX	48.0	$\mu g/m^3$	180.0
10.	Ammonia (as NH_3)	IS:5182 Part-XXV	<20.0	$\mu g/m^3$	400.0
11.	Benzene (as C_6H_6)	IS:5182 Part-XI	<1.0	$\mu g/m^3$	5.0
12.	Benzof(α) Pyrine- Particulate phase only	IS:5182 Part-XII	<1.0	ng/m^3	1.0
13.	Mercury Content (as Hg)	APHA-AIR (ICP-MS)	BDL	$\mu g/m^3$	No limit Specified

BDL- Below detection limit

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-140322-03	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 By : Mr. Deepak Sharma / Umashankar Sharma (NTL)
 Sample Drawn On : 09/03/2022 to 10/03/2022
 Date of Sample Received : 14/03/2022
 Sample Description : Ambient Air
 Sampling Location : Near-Permanent Hostel
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 14/03/2022 to 21/03/2022
 Average Flow Rate of SPM ($m^3/min.$) : 1.14
 Average Flow Rate of Gases (lpm) : 1.0
 Sampling Instrument Used : Respirable Dust Sampler (PM_{10}) Fine Particulate Sampler ($PM_{2.5}$) With Gaseous Attachment

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM_{10})	IS:5182 Part-XXXIII	32.6	$\mu g/m^3$	100
2.	Particulate Matter ($PM_{2.5}$)	IS:5182 Part-XXIV	15.8	$\mu g/m^3$	60
3.	Sulphur dioxide (as SO_2)	IS:5182 Part-II	6.89	$\mu g/m^3$	80
4.	Nitrogen dioxide (as NO_2)	IS:5182 Part-VI	16.25	$\mu g/m^3$	80
5.	Carbon monoxide (as CO)	IS:5182 Part-X	618	$\mu g/m^3$	4000
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.1	$\mu g/m^3$	1.0
7.	Nickel (as Ni)	APHA-AIR420	<20	ng/m^3	20.0
8.	Arsenic (as As)	APHA-AIR302	<5.0	ng/m^3	6.0
9.	Ozone (as O_3)	IS:5182 Part-IX	41.2	$\mu g/m^3$	180.0
10.	Ammonia (as NH_3)	IS:5182 Part-XXV	<20.0	$\mu g/m^3$	400.0
11.	Benzene (as C_6H_6)	IS:5182 Part-XI	< 1.0	$\mu g/m^3$	5.0
12.	Benzoc(α) Pyrine- Particulate phase only	IS:5182 Part-XII	< 1.0	ng/m^3	1.0
13.	Mercury Content (as Hg)	APHA-AIR (ICP-MS)	BDL	$\mu g/m^3$	No limit Specified

BDL- Below detection limit

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-140322-04	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 By : Mr. Deepak Sharma / Umashankar Sharma (NTL)
Sample Drawn On : 10/03/2022 to 11/03/2022
Date of Sample Received : 14/03/2022
Sample Description : Ambient Air
Sampling Location : Near-Vishnu Temple
Sampling Plan & Procedure : SOP-AAQ/08
Analysis Duration : 14/03/2022 to 21/03/2022
Average Flow Rate of SPM (m^3/min) : 1.07
Average Flow Rate of Gases (lpm) : 1.0
Sampling Instrument Used : Respirable Dust Sampler (PM_{10}) Fine Particulate Sampler ($PM_{2.5}$) With Gaseous Attachment

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM_{10})	IS:5182 Part-XXIII	16.2	$\mu g/m^3$	100
2.	Particulate Matter ($PM_{2.5}$)	IS:5182 Part-XXIV	5.83	$\mu g/m^3$	60
3.	Sulphur dioxide (as SO_2)	IS:5182 Part-II	<5.0	$\mu g/m^3$	80
4.	Nitrogen dioxide (as NO_2)	IS:5182 Part-VI	6.98	$\mu g/m^3$	80
5.	Carbon monoxide (as CO)	IS:5182 Part-X	260	$\mu g/m^3$	4000
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.1	$\mu g/m^3$	1.0
7.	Nickel (as Ni)	APHA-AIR420	<20	ng/m^3	20.0
8.	Arsenic (as As)	APHA-AIR302	<5.0	ng/m^3	6.0
9.	Ozone (as O_3)	IS:5182 Part-IX	36.8	$\mu g/m^3$	180.0
10.	Ammonia (as NH_3)	IS:5182 Part-XXV	<20.0	$\mu g/m^3$	400.0
11.	Benzene (as C_6H_6)	IS:5182 Part-XI	<1.0	$\mu g/m^3$	5.0
12.	Benzof(a) Pyrine- Particulate phase only	IS:5182 Part-XII	<1.0	ng/m^3	1.0
13.	Mercury Content (as Hg)	APHA-AIR (ICP-MS)	BDL	$\mu g/m^3$	No limit Specified

BDL- Below detection limit

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-140322-05	21/03/2022

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

SAMPLING & ANALYSIS DATA

Sample Drawn By : Mr. Deepak Sharma / Umashankar Sharma (NTL)
 Sample Drawn On : 10/03/2022 to 11/03/2022
 Date of Sample Received : 14/03/2022
 Sample Description : Ambient Air
 Sampling Location : Near-Chglaua Village
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 14/03/2022 to 21/03/2022
 Average Flow Rate of SPM ($m^3/min.$) : 1.09
 Average Flow Rate of Gases (lpm) : 1.0
 Sampling Instrument Used : Respirable Dust Sampler (PM_{10}) Fine Particulate Sampler ($PM_{2.5}$) With Gaseous Attachment

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM_{10})	IS:5182 Part-XXIII	19.2	$\mu g/m^3$	100
2.	Particulate Matter ($PM_{2.5}$)	IS:5182 Part-XXIV	8.55	$\mu g/m^3$	60
3.	Sulphur dioxide (as SO_2)	IS:5182 Part-II	<5.0	$\mu g/m^3$	80
4.	Nitrogen dioxide (as NO_2)	IS:5182 Part-VI	6.74	$\mu g/m^3$	80
5.	Carbon monoxide (as CO)	IS:5182 Part-X	236	$\mu g/m^3$	4000
6.	Lead (as Pb)	IS:5182 Part-XXIII	<0.1	$\mu g/m^3$	1.0
7.	Nickel (as Ni)	APHA-AIR420	<20	ng/m^3	20.0
8.	Arsenic (as As)	APHA-AIR302	<5.0	ng/m^3	6.0
9.	Ozone (as O_3)	IS:5182 Part-IX	36.2	$\mu g/m^3$	180.0
10.	Ammonia (as NH_3)	IS:5182 Part-XXV	<20.0	$\mu g/m^3$	400.0
11.	Benzene (as C_6H_6)	IS:5182 Part-XI	<1.0	$\mu g/m^3$	5.0
12.	Benzof(α) Pyrine-Particulate phase only	IS:5182 Part-XII	<1.0	ng/m^3	1.0
13.	Mercury Content (as Hg)	APHA-AIR (ICP-MS)	BDL	$\mu g/m^3$	No limit Specified

BDL- Below detection limit

Notes:

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TEST CERTIFICATE

Test Report of	Report Code	Date of Issue
Ambient Air Quality Analysis	AAQ-140322-06	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 By : Mr. Deepak Sharma / Umashankar Sharma (NTL)
 Sample Drawn On : 10/03/2022 to 11/03/2022
 Date of Sample Received : 14/03/2022
 Sample Description : Ambient Air
 Sampling Location : Near-Udaypura Village
 Sampling Plan & Procedure : SOP-AAQ/08
 Analysis Duration : 14/03/2022 to 21/03/2022
 Average Flow Rate of SPM ($m^3/min.$) : 1.08
 Average Flow Rate of Gases (lpm) : 1.0
 Sampling Instrument Used : Respirable Dust Sampler (PM_{10}) Fine Particulate Sampler ($PM_{2.5}$) With Gaseous Attachment

TEST RESULT

S. No.	Parameter	Test Method	Results	Units	Limits as per Environment (Protection) Act.
1.	Particulate Matter (PM_{10})	IS:5182 Part-XXIII	18.0	$\mu g/m^3$	100
2.	Particulate Matter ($PM_{2.5}$)	IS:5182 Part-XXIV	7.20	$\mu g/m^3$	60
3.	Sulphur dioxide (as SO_2)	IS:5182 Part-II	<5.0	$\mu g/m^3$	80
4.	Nitrogen dioxide (as NO_2)	IS:5182 Part-VI	6.48	$\mu g/m^3$	80
5.	Carbon monoxide (as CO)	IS:5182 Part-X	212	$\mu g/m^3$	4000
6.	Lead (as Pb)	IS:5182 Part-XXII	<0.1	$\mu g/m^3$	1.0
7.	Nickel (as Ni)	APHA-AIR420	<20	ng/m^3	20.0
8.	Arsenic (as As)	APHA-AIR302	<5.0	ng/m^3	6.0
9.	Ozone (as O_3)	IS:5182 Part-IX	36.0	$\mu g/m^3$	180.0
10.	Ammonia (as NH_3)	IS:5182 Part-XXXV	<20.0	$\mu g/m^3$	400.0
11.	Benzene (as C_6H_6)	IS:5182 Part-XI	<1.0	$\mu g/m^3$	5.0
12.	Benzo(a) Pyrine- Particulate phase only	IS:5182 Part-XII	<1.0	ng/m^3	1.0
13.	Mercury Content (as Hg)	APHA-AIR (ICP-MS)	BDL	$\mu g/m^3$	No limit Specified

BDL- Below detection limit

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