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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-019/15/03/24		DATE OF REPORT : 20/03/2024
Name and Address of Customer	M/S LALITPUR POWER GENERATION COMPANY LIMITED. Village-Mirchwara and Burogaon, Tehsil-Mahroni, Lalitpur-284123 (U.P) India	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 20/03/2024
Analysis Start Date	: 15/03/2024	Sampling Done By	: NCL
Date of Sampling	: 13/03/2024	Duration of Sampling	: 30 Minutes
Sampling Protocol	: AS PER CPCB GUIDELINES	Sample ID No.	: NCL/EP-019/15/03/24
Sampling Location	: --	Area Category	: --
Equipments Used	: Vayubodhan Stack Sampler No-1 VSS-1 (S.No-321 DTC 01)		

DETAILS OF STACK

Stack Attached to	: Boiler No.1	Capacity	: 1983 TPH
Type of fuel used	: Coal	Quantity of fuel used	: 281 Ton/Hrs
Stack height above the ground level	: 275 Mtr	Stack height above the roof top	: --
Stack dia at the top	: 7500 mm	Material of Construction	: RCC
Attached APCS	: ESP	Normal Oprating Schedule	: 24 Hrs
Comminssioning date	: --		

PHYSICAL OBSERVATIONS

Ambient Temperature	: 28°C	Flue gas temprature	: 128°C
Velocity of the flue gases	: 15.9 mtr/sec	Sampling Flow Rate of SPM	: 20.0 LPM
Sampling Flow Rate for Gases	: 2.1 LPM	Quantity of Emission discharged	: 1828865.75 Nm ³ /hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Particulate Matters (PM)	mg/Nm ³	IS:11255 (Part-1)	39	50
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS:11255 (Part-2)	828	200
3	Carbon Monoxide (CO)	%	IS:13270	0.28	NS
4	Oxide of Nitrogen (NO _x)	mg/Nm ³	IS:11255 (Part-7)	279	450
5	Mercury (Hg)	mg/Nm ³	AAS Method	BDL(DL-0.005)	0.03

End of Report

Remarks : BDL=Below Detection Limit.

EP-019/15/03/24-1




Checked by
Jitendra
Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES


Authorized Signatory
Shashi Solanki
Lab Head

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-020/15/03/24		DATE OF REPORT : 20/03/2024
Name and Address of Customer	M/S LALITPUR POWER GENERATION COMPANY LIMITED. Village-Mirchwara and Burogaon, Tehsil-Mahroni, Lalitpur-284123 (U.P) India	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 20/03/2024
Analysis Start Date	: 15/03/2024	Sampling Done By	: NCL
Date of Sampling	: 13/03/2024	Duration of Sampling	: 30 Minutes
Sampling Protocol	: AS PER CPCB GUIDELINES	Sample ID No.	: NCL/EP-020/15/03/24
Sampling Location	: --	Area Category	: --
Equipments Used	: Vayubodhan Stack Sampler No-1 VSS-1 (S.No-321 DTC 01)		

DETAILS OF STACK

Stack Attached to	: Boiler No.2	Capacity	: 1983 TPH
Type of fuel used	: Coal	Quantity of fuel used	: 389.5 Ton/Hrs
Stack height above the ground level	: 275 Mtr	Stack height above the roof top	: --
Stack dia at the top	: 7500 mm	Material of Construction	: RCC
Attached APCS	: ESP	Normal Oprating Schedule	: 24 Hrs
Comminssioning date	: --		

PHYSICAL OBSERVATIONS

Ambient Temperature	: 28°C	Flue gas temprature	: 137°C
Velocity of the flue gases	: 17.0 mtr/sec	Sampling Flow Rate of SPM	: 21.0 LPM
Sampling Flow Rate for Gases	: 2.1 LPM	Quantity of Emission discharged	: 1912467.84 Nm ³ /hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Particulate Matters (PM)	mg/Nm ³	IS:11255 (Part-1)	43	50
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS:11255 (Part-2)	847	200
3	Carbon Monoxide (CO)	%	IS:13270	0.34	NS
4	Oxide of Nitrogen (NO _x)	mg/Nm ³	IS:11255 (Part-7)	295	450
5	Mercury (Hg)	mg/Nm ³	AAS Method	BDL(DL-0.005)	0.03

End of Report

Remarks : BDL=Below Detection Limit.

EP-020/15/03/24-1




Checked by
Jitendra
Sr. Analyst

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Lab Head

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-021/15/03/24		DATE OF REPORT : 20/03/2024
Name and Address of Customer	M/S LALITPUR POWER GENERATION COMPANY LIMITED, Village-Mirchwara and Burogaon, Tehsil-Mahroni, Lalitpur-284123 (U.P) India	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 20/03/2024
Analysis Start Date	: 15/03/2024	Sampling Done By	: NCL
Date of Sampling	: 13/03/2024	Duration of Sampling	: 30 Minutes
Sampling Protocol	: AS PER CPCB GUIDELINES	Sample ID No.	: NCL/EP-021/15/03/24
Sampling Location	: --	Area Category	: --
Equipments Used	: Vayubodhan Stack Sampler No-1 VSS-1 (S.No-321 DTC 01)		

DETAILS OF STACK

Stack Attached to	: Boiler No.3	Capacity	: 1983 TPH
Type of fuel used	: Coal	Quantity of fuel used	: 392.4 Ton/Hrs
Stack height above the ground level	: 275 Mtr	Stack height above the roof top	: --
Stack dia at the top	: 7500 mm	Material of Construction	: RCC
Attached APCS	: ESP	Normal Oprating Schedule	: 24 Hrs
Comminssioning date	: --		

PHYSICAL OBSERVATIONS

Ambient Temperature	: 28°C	Flue gas temprature	: 134°C
Velocity of the flue gases	: 17.8 mtr/sec	Sampling Flow Rate of SPM	: 22.0 LPM
Sampling Flow Rate for Gases	: 2.4 LPM	Quantity of Emission discharged	: 2017226.52 Nm ³ /hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Particulate Matters (PM)	mg/Nm ³	IS:11255 (Part-1)	47	50
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS:11255 (Part-2)	874	200
3	Carbon Monoxide (CO)	%	IS:13270	0.39	NS
4	Oxide of Nitrogen (NO _x)	mg/Nm ³	IS:11255 (Part-7)	302	450
5	Mercury (Hg)	mg/Nm ³	AAS Method	BDL(DL-0.005)	0.03

End of Report

Remarks : BDL=Below Detection Limit.

EP-021/15/03/24-1




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Sr. Analyst

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Shashi Solanki
Lab Head

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-025/15/03/24		DATE OF REPORT : 20/03/2024
Name and Address of Customer	M/S LALITPUR POWER GENERATION COMPANY LIMITED, Village-Mirchwara and Burogaon, Tehsil-Mahroni, Lalitpur-284123 (U.P) India	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 20/03/2024
Analysis Start Date	: 15/03/2024	Sampling Done By	: NCL
Date of Sampling	: 13/03/2024	Duration of Sampling	: 30 Minutes
Sampling Protocol	: AS PER CPCB GUIDELINES	Sample ID No.	: NCL/EP-025/15/03/24
Sampling Location	: --	Area Category	: --
Equipments Used	: Vayubodhan Stack Sampler No-1 VSS-1 (S.No-321 DTC 01)		

DETAILS OF STACK

Stack Attached to	: DG Set No.1	Capacity of D.G.	: 2000 KVA = 1600 KW
Type of fuel used	: HSD	Quantity of fuel used	: 190-200 lph
Stack height above the ground level	: 30.0 mtr	Stack height above the roof top	: --
Stack dia at the top	: 350 mm	Material of Construction	: MS
Attached APCS	: ACOUSTIC ENCLOSURE	Normal Oprating Schedule	: AS PER REQUIREMENT
D.G.set commissioning date	: On or After 01-07-2005		

PHYSICAL OBSERVATIONS

Ambient Temperature	: 28°C	Flue gas temperature	: 302°C
Velocity of the flue gases	: 17.5 mtr/sec	Sampling Flow Rate of SPM	: 15.0 LPM
Sampling Flow Rate for Gases	: 2.0 LPM	Quantity of Emission discharged	: 3057.12 Nm ³ /hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification (Max)
1	Carbon Monoxide (CO) (at 15% O ₂)	Mg/Nm ³	IS:13270	89.9	150
2	Particulate Matters (PM) (at 15% Oxygen)	Mg/Nm ³	IS:11255 (P-1)	47.0	75
3	Oxides Of Nitrogen (at 15% Oxygen, Dry Basis) (NOx)	ppmv	IS:11255 (P-7)	275	710
4	NMHC (at 15% Oxygen)	Mg/Nm ³	G.C. Method	30.2	100
5	Sulphur Dioxide (as SO ₂)	mg/Nm ³	IS:11255 (P-2)	53	Not Specified


End of Report

EP-025/15/03/24-1




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 Jitendra
 Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES


 Authorized Signatory
 Shashi Solanki
 Lab Head

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-026/15/03/24		DATE OF REPORT : 20/03/2024
Name and Address of Customer	M/S LALITPUR POWER GENERATION COMPANY LIMITED, Village-Mirchwara and Burogaon, Tehsil-Mahroni, Lalitpur-284123 (U.P) India	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 20/03/2024
Analysis Start Date	: 15/03/2024	Sampling Done By	: NCL
Date of Sampling	: 13/03/2024	Duration of Sampling	: 30 Minutes
Sampling Protocol	: AS PER CPCB GUIDELINES	Sample ID No.	: NCL/EP-026/15/03/24
Sampling Location	: --	Area Category	: --
Equipments Used	: Vayubodhan Stack Sampler No-1 VSS-1 (S.No-321 DTC 01)		

DETAILS OF STACK

Stack Attached to	: DG Set No.2	Capacity of D.G.	: 2000 KVA = 1600 KW
Type of fuel used	: HSD	Quantity of fuel used	: 190-200 lph
Stack height above the ground level	: 30.0 mtr	Stack height above the roof top	: --
Stack dia at the top	: 350 mm	Material of Construction	: MS
Attached APCS	: ACOUSTIC ENCLOSURE	Normal Oprating Schedule	: AS PER REQUIREMENT
D.G.set comminssioning date	: On or After 01-07-2005		

PHYSICAL OBSERVATIONS

Ambient Temperature	: 28°C	Flue gas temprature	: 314°C
Velocity of the flue gases	: 18.6 mtr/sec	Sampling Flow Rate of SPM	: 16.0 LPM
Sampling Flow Rate for Gases	: 1.7 LPM	Quantity of Emission discharged	: 3182.86 Nm ³ /hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification (Max)
1	Carbon Monoxide (CO) (at 15% O2)	Mg/Nm ³	IS:13270	93.5	150
2	Particulate Matters (PM) (at 15% Oxygen)	Mg/Nm ³	IS:11255 (P-1)	49.2	75
3	Oxides Of Nitrogen (at 15% Oxygen, Dry Basis) (NOx)	ppmv	IS:11255 (P-7)	289	710
4	NMHC (at 15% Oxygen)	Mg/Nm ³	G.C. Method	32.7	100
5	Sulphur Dioxide (as SO2)	mg/Nm ³	IS:11255 (P-2)	56	Not Specified

End of Report

EP-026/15/03/24-1




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Sr. Analyst

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Lab Head

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-027/15/03/24		DATE OF REPORT : 20/03/2024
Name and Address of Customer	M/S LALITPUR POWER GENERATION COMPANY LIMITED. Village-Mirchwara and Burogaon, Tehsil-Mahroni, Lalitpur-284123 (U.P) India	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 20/03/2024
Analysis Start Date	: 15/03/2024	Sampling Done By	: NCL
Date of Sampling	: 13/03/2024	Duration of Sampling	: 30 Minutes
Sampling Protocol	: AS PER CPCB GUIDELINES	Sample ID No.	: NCL/EP-027/15/03/24
Sampling Location	: --	Area Category	: --
Equipments Used	: Vayubodhan Stack Sampler No-1 VSS-1 (S.No-321 DTC 01)		

DETAILS OF STACK

Stack Attached to	: DG Set No.3	Capacity of D.G.	: 2000 KVA = 1600 KW
Type of fuel used	: HSD	Quantity of fuel used	: 190-200 lph
Stack height above the ground level	: 30.0 mtr	Stack height above the roof top	: --
Stack dia at the top	: 350 mm	Material of Construction	: MS
Attached APCS	: ACOUSTIC ENCLOSURE	Normal Oprating Schedule	: AS PER REQUIREMENT
D.G.set commissioning date	: On or After 01-07-2005		

PHYSICAL OBSERVATIONS

Ambient Temperature	: 28°C	Flue gas temprature	: 308°C
Velocity of the flue gases	: 19.1 mtr/sec	Sampling Flow Rate of SPM	: 16.0 LPM
Sampling Flow Rate for Gases	: 2.3 LPM	Quantity of Emission discharged	: 3302.17 Nm ³ /hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification (Max)
1	Carbon Monoxide (CO) (at 15% O2)	Mg/Nm ³	IS:13270	90.2	150
2	Particulate Matters (PM) (at 15% Oxygen)	Mg/Nm ³	IS:11255 (P-1)	47.9	75
3	Oxides Of Nitrogen (at 15% Oxygen, Dry Basis) (NOx)	ppmv	IS:11255 (P-7)	272	710
4	NMHC (at 15% Oxygen)	Mg/Nm ³	G.C. Method	30.5	100
5	Sulphur Dioxide (as SO2)	mg/Nm ³	IS:11255 (P-2)	54	Not Specified

End of Report

EP-027/15/03/24-1



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Jitendra
Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

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Lab Head

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-028/15/03/24		DATE OF REPORT : 20/03/2024
Name and Address of Customer	M/S LALITPUR POWER GENERATION COMPANY LIMITED, Village-Mirchwara and Burogaon, Tehsil-Mahroni, Lalitpur-284123 (U.P) India	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 20/03/2024
Analysis Start Date	: 15/03/2024	Sampling Done By	: NCL
Date of Sampling	: 13/03/2024	Duration of Sampling	: 30 Minutes
Sampling Protocol	: AS PER CPCB GUIDELINES	Sample ID No.	: NCL/EP-028/15/03/24
Sampling Location	: --	Area Category	: --
Equipments Used	: Vayubodhan Stack Sampler No-1 VSS-1 (S.No-321 DTC 01)		

DETAILS OF STACK

Stack Attached to	: DG Set No.4	Capacity of D.G.	: 2000 KVA = 1600 KW
Type of fuel used	: HSD	Quantity of fuel used	: 190-200 lph
Stack height above the ground level	: 30.0 mtr	Stack height above the roof top	: --
Stack dia at the top	: 350 mm	Material of Construction	: MS
Attached APCS	: ACOUSTIC ENCLOSURE	Normal Operating Schedule	: AS PER REQUIREMENT
D.G.set commissioning date	: On or After 01-07-2005		

PHYSICAL OBSERVATIONS

Ambient Temperature	: 28°C	Flue gas temperature	: 312°C
Velocity of the flue gases	: 18.1 mtr/sec	Sampling Flow Rate of SPM	: 15.0 LPM
Sampling Flow Rate for Gases	: 2.3 LPM	Quantity of Emission discharged	: 3107.89 Nm ³ /hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification (Max)
1	Carbon Monoxide (CO) (at 15% O ₂)	Mg/Nm ³	IS:13270	81.8	150
2	Particulate Matters (PM) (at 15% Oxygen)	Mg/Nm ³	IS:11255 (P-1)	48.1	75
3	Oxides Of Nitrogen (at 15% Oxygen, Dry Basis) (NO _x)	ppmv	IS:11255 (P-7)	285	710
4	NMHC (at 15% Oxygen)	Mg/Nm ³	G.C. Method	30.7	100
5	Sulphur Dioxide (as SO ₂)	mg/Nm ³	IS:11255 (P-2)	52	Not Specified

End of Report

EP-028/15/03/24-1



Jitendra
Checked by
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Sr. Analyst

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