

BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To M/s CDS Infra Projects. Ltd.
Camp-01, Plot No.533, Sambhal-Anup Shahar
Road, Village Khirani, Mohuiddinpur
Distt. Sambhal-244303, UP, INDIA

ULR No. : TC636623000005211F
Test Report Date: 21/10/2023

Project:Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : Ambient Air Quality Monitoring
Date of Sampling : 13/10/2023
Time of Sampling (Hrs) : 09:50 AM
Sample Received at Lab : 16/10/2023
Test Started On : 16/10/2023
Test Completed On : 20/10/2023
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Sampling Location : Batching Plant of Camp-1
Avg. Flow Rate of Air for RDS (m3/min) : 1.12
Avg. Flow Rate of Air for FPS (m3/hr) : 0.98
Monitoring Conducted By : Mr. Rajendra Pratap
Ambient Temperature (°C) : 25
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	36.20	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	76.20	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	17.40	30	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂), µg/m ³	23.60	100	24 hrs	IS:5182(P-6)

Remark:

*ND= Not Detected; NA= Not Applicable, DL-Detection Limit



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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Report

Issued To M/s CDS Infra Projects. Ltd. **ULR No. :** TC636623000005212F
Camp-01, Plot No.533, Sambhal-Anup Shahar **Test Report Date:** 21/10/2023
Road, Village Khirani, Mohuiddinpur
Distt. Sambhal-244303, UP, INDIA

Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : Ambient Noise
Date of Sampling : 13/10/2023
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 9989
Monitoring Conducted By : NL

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) Leq for Industrial Area		75 dB(A)	70dB(A)
1	Batching Plant of Camp-1	73.7	64.5

Remark:

*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



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Test Report

Issued To M/s CDS Infra Projects. Ltd.
Camp-01, Plot No.533, Sambhal-Anup Shahar
Road, Village Khirani, Mohuiddinpur
Distt. Sambhal-244303, UP, INDIA

ULR No. : TC636623000005213F
Test Report Date: 21/10/2023

Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars:

Nature of the Sample : **Flue Gas Monitoring**
Date of Sampling : 13/10/2023
Sample Received at Lab : 16/10/2023
Test Started On : 16/10/2023
Test Completed On : 20/10/2023
Purpose of Monitoring : To Check the Pollution Level
Sample Description : Stack Attached to DG Set of Batching Plant of Camp-1 of Capacity 180 KVA
Method of Sampling : IS: 11255 (P-7)
Normal Operating Schedule : As per requirement
Type of Stack /Duct : Mild Steel
Stack Height from Ground Level (m) : 6
Diameter of the Stack (cm) : 1.0
Sampling Duration (min) : 40

Observations:

Flue Gas Temperature °C : 181
Ambient Air Temperature °C : 25
Flue Gas Velocity (m/s) : 15.18

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Emission Limits	Test Method
1	Particulate Matter, (as PM)	g/kWh	0.10	0.2	IS:11255(P-1)
2	Oxide of Nitrogen (as NO _x)	g/kWh	0.21	0.40	IS:11255(P-7)
3	Carbon Monoxide as CO	g/kWh	1.9	3.5	IS:13270



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Road, Village Khirani, Mohuiddinpur
Distt. Sambhal-244303, UP, INDIA

ULR No. : TC636623000005214F
Test Report Date: 21/10/2023

Project:Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

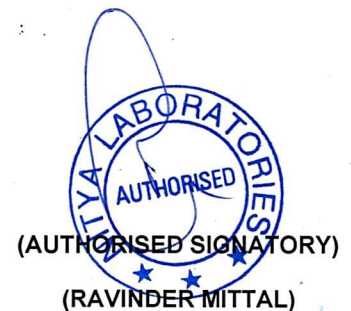
Nature of the Sample : **DG Noise**
Date of Sampling : 13/10/2023
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 9989
Instrument Used : Sound Level Meter
Place of Monitoring : DG Set of Batching Plant of Camp-1 of Capacity 180 KVA

Analysis Report

Sr. No.	Location	Test Result dB (A)	Test Method	Standard	Remark
1	Ambient Noise Level	60.2	NL/SOP/ENV-05 based IS:9989	≤ 75	DG Set (s) non-Operational
2	Ambient Noise Level	91.2			DG Set (s) Operational
3	1 meter Surface Acoustic enclosure when door is closed	65.4	NL/SOP/ENV-08 based on CPCB Guidelines:2018		DG Set (s) Operational

Remark:

*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = Central Pollution Control Board



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Test Report

Issued To M/s CDS Infra Projects. Ltd. **ULR No. :** TC636623000005215F
Camp-01, Plot No.533, Sambhal-Anup Shahar **Test Report Date:** 21/10/2023
Road, Village Khirani, Mohuiddinpur
Distt: Sambhal-244303, UP, INDIA

Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **Drinking Water**
Sample Quantity & Packaging : 1Liter, Pet Bottle
Sample Received at Lab : 16/10/2023
Test Started on : 16/10/2023
Test Completed : 20/10/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 13/10/2023
Place of Sampling : Camp-1

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500		Protocol
				Desirable	Permissible	
1.	pH	-	7.50	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2.	Color	Hazen	<5	5	15	IS:3025 (P-4)
3.	Odour		Agreeable	Agreeable	Agreeable	IS:3025 (P-5)
4.	Turbidity	NTU	<1	1	5	APHA 23 rd Ed.
5.	Total Dissolved Solids	mg/l	380	500	2000	IS:3025 (P-16)
6.	Total Hardness as (CaCO ₃)	mg/l	190	200	600	IS:3025 (P-21)
7.	Total Alkalinity as CaCO ₃	mg/l	145	200	600	IS:3025 (P-23)
8.	Chlorides as Cl	mg/l	80	250	1000	IS:3025(P-32)
9.	Sulphate as SO ₄	mg/l	25	200	400	APHA 23 rd Ed.
10.	Nitrates as NO ₃	mg/l	0.70	45	No Relaxation	IS:3025 (P-34)
11.	Calcium as Ca	mg/l	50	75	200	IS:3025 (P-40)
12.	Magnesium as Mg	mg/l	15.80	30	100	APHA 23 rd Ed.
13.	Residual Free Chlorine	mg/l	ND[D' - 0.2]	0.2	1	IS:3025 (P-26)
14.	Total Ammonia	mg/l	0.30	0.5	No Relaxation	IS:3025 (P-34)
15.	Fluoride as F	mg/l	ND [DL- 0.1]	1.0	1.5	IS:3025 (P-60)



TC-6366

(AUTHORISED SIGNATORY)
(RAVINDER MITAL)

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ULR No. : TC636623000005216F
Test Report Date: 21/10/2023

Project:Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **Construction Water**
Sample Quantity & Packaging : 1 Litre, Pet Bottle
Sample Received at Lab : 16/10/2023
Test Started on : 16/10/2023
Test Completed : 20/10/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 13/10/2023
Place of Sampling : Batching Plant of Camp-1

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Limit as per IS: 456	Protocol
1	pH	-	7.10	7.34	IS:3025 (P-11)
2	Chloride as Cl	mg/l	630	2000	IS:3025 (P-32)
3	Sulphate as SO ₄	mg/l	310	400	IS:3025 (P-24)
4	Total Suspended Solids	mg/l	20	2000	IS:3025 (P-17)
5	Alkalinity (0.02 N H ₂ SO ₄ used in 100 ml)	mg/l	14	25	IS:3025 (P-23)



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Test Report

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Camp-01, Plot No.533, Sambhal-Anup Shahar
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Distt. Sambhal-244303, UP, INDIA

ULR No. :

TC636623000005217F

Test Report Date:

21/10/2023

Project:Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **Soil**
Sample Quantity & Packaging : **1Kg, Poly Bag**
Sample Received at Lab : **16/10/2023**
Test Started on : **16/10/2023**
Test Completed : **20/10/2023**
Method of Sampling : **SOP/B/D-3**
Date of Sampling : **13/10/2023**
Place of Sampling : **Batching Plant of Camp-1**

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Protocol
1.	Lead	mg/kg	ND	Ministry of agriculture Manual
2.	Nickel	mg/kg	0.50	Ministry of agriculture Manual
3.	Arsenic	mg/kg	ND	Ministry of agriculture Manual
4.	Total Chromium	mg/kg	2.40	Ministry of agriculture Manual
5.	Cadmium	mg/kg	ND	Ministry of agriculture Manual



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Distt. Sambhal-244303, UP, INDIA

ULR No. : TC636623000005218F
Test Report Date: 21/10/2023

Project:Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : Ambient Air Quality Monitoring
Date of Sampling : 13/10/2023
Time of Sampling (Hrs) : 10:30 AM
Sample Received at Lab : 16/10/2023
Test Started On : 16/10/2023
Test Completed On : 20/10/2023
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Sampling Location : Batching Plant atCamp-3
Avg. Flow Rate of Air for RDS (m3/min) : 1.10
Avg. Flow Rate of Air for FPS (m3/hr) : 1.00
Monitoring Conducted By : Mr. Rajendra Pratap
Ambient Temperature (°C) : 25
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	35.20	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	76.20	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	16.40	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂), µg/m ³	22.30	100	24 hrs	IS:5182(P-6)

Remark:

*ND= Not Detected; NA= Not Applicable, DL-Detection Limit



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ULP No. : TC636623000005219F
Test Report Date: 21/10/2023

Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **Ambient Noise**
Date of Sampling : 13/10/2023
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 9989
Monitoring Conducted By : NL

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) Leq for Industrial Area		75 dB(A)	70dB(A)
1	Batching Plant at Camp-3	71.4	60.6

Remark:

*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



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Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars:

Nature of the Sample : **Flue Gas Monitoring**
Date of Sampling : 13/10/2023
Sample Received at Lab : 16/10/2023
Test Started On : 16/10/2023
Test Completed On : 20/10/2023
Purpose of Monitoring : To Check the Pollution Level
Sample Description : Stack Attached to DG of Capacity 180 KVA of Batching Plant at Camp-3
Method of Sampling : IS: 11255 (P-7)
Normal Operating Schedule : As per requirement
Type of Stack /Duct : Mild Steel
Stack Height from Ground Level (m) : 6
Diameter of the Stack (cm) : 1.0
Sampling Duration (min) : 40

Observations:
Flue Gas Temperature °C : 189
Ambient Air Temperature °C : 25
Flue Gas Velocity (m/s) : 16.56

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Emission Limits	Test Method
1	Particulate Matter, (as PM)	g/kWh	0.13	0.2	IS:11255(P-1)
2	Oxide of Nitrogen (as NO _x)	g/kWh	0.24	0.40	IS:11255(P-7)
3	Carbon Monoxide as CO	g/kWh	2.1	3.5	IS:13270



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Test Report

Issued To M/s CDS Infra Projects. Ltd.
Camp-01, Plot No.533, Sambhal-Anup Shahar
Road, Village Khirani, Mohuiddinpur
Distt. Sambhal-244303, UP, INDIA

ULR No. : TC636623000005221F
Test Report Date: 21/10/2023

Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **DG Noise**
Date of Sampling : 13/10/2023
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 9989
Instrument Used : Sound Level Meter
Place of Monitoring : DG Set of Capacity 180 KVA of Batching Plant at Camp-3

Analysis Report

Sr. No.	Location	Test Result dB (A)	Test Method	Standard	Remark
1	Ambient Noise Level	56.4	NL/SOP/ENV-05 based IS:9989	≤ 75	DG Set (s) non-Operational
2	Ambient Noise Level	87.5			DG Set (s) Operational
3	1 meter Surface Acoustic enclosure when door is closed	62.7	NL/SOP/ENV-08 based on CPCB Guidelines:2018		DG Set (s) Operational

Remark:

*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = Central Pollution Control Board



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ULR No. : TC636623000005222F
Test Report Date: 21/10/2023

Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **Drinking Water**
Sample Quantity & Packaging : 1Liter, Pet Bottle
Sample Received at Lab : 16/10/2023
Test Started on : 16/10/2023
Test Completed : 20/10/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 13/10/2023
Place of Sampling : Office Area at Camp-3

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500		Protocol
				Desirable	Permissible	
1.	pH	-	7.40	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2.	Color	Hazen	<5	5	15	IS:3025 (P-4)
3.	Odour		Agreeable	Agreeable	Agreeable	IS:3025 (P-5)
4.	Turbidity	NTU	<1	1	5	APHA 23 rd Ed.
5.	Total Dissolved Solids	mg/l	420	500	2000	IS:3025 (P-16)
6.	Total Hardness as (CaCO ₃)	mg/l	170	200	600	IS:3025 (P-21)
7.	Total Alkalinity as CaCO ₃	mg/l	140	200	600	IS:3025 (P-23)
8.	Chlorides as Cl	mg/l	75	250	1000	IS:3025(P-32)
9.	Sulphate as SO ₄	mg/l	18	200	400	APHA 23 rd Ed.
10.	Nitrates as NO ₃	mg/l	0.20	45	No Relaxation	IS:3025 (P-34)
11.	Calcium as Ca	mg/l	35	75	200	IS:3025 (P-40)
12.	Magnesium as Mg	mg/l	20.1	30	100	APHA 23 rd Ed.
13.	Residual Free Chlorine	mg/l	ND[DL- 0.2]	0.2	1	IS:3025 (P-26)
14.	Total Ammonia	mg/l	0.14	0.5	No Relaxation	IS:3025 (P-34)
15.	Fluoride as F	mg/l	ND [DL- 0.1]	1.0	1.5	IS:3025 (P-60)



TC-6366.

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Distt. Sambhal-244303, UP, INDIA

ULR No. : TC636623000005223F
Test Report Date: 21/10/2023

Project:Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **Construction Water**
Sample Quantity & Packaging : 1 Litre, Pet Bottle
Sample Received at Lab : 16/10/2023
Test Started on : 16/10/2023
Test Completed : 20/10/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 13/10/2023
Place of Sampling : Batching Plant at Camp-3

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Limit as per IS: 456	Protocol
1	pH	-	7.30	7.34	IS:3025 (P-11)
2	Chloride as Cl	mg/l	410	2000	IS:3025 (P-32)
3	Sulphate as SO ₄	mg/l	290	400	IS:3025 (P-24)
4	Total Suspended Solids	mg/l	15	2000	IS:3025 (P-17)
5	Alkalinity (0.02 N H ₂ SO ₄ used in 100 ml)	mg/l	18	25	IS:3025 (P-23)



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Road, Village Khirani, Mohuiddinpur
Distt. Sambhal-244303, UP, INDIA

ULR No. : TC636623000005224F
Test Report Date: 21/10/2023

Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **Soil**
Sample Quantity & Packaging : 1Kg, Poly Bag
Sample Received at Lab : 16/10/2023
Test Started on : 16/10/2023
Test Completed : 20/10/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 13/10/2023
Place of Sampling : Batching Plant at Camp-3

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Protocol
1.	Lead	mg/kg	ND	Ministry of agriculture Manual
2.	Nickel	mg/kg	0.40	Ministry of agriculture Manual
3.	Arsenic	mg/kg	ND	Ministry of agriculture Manual
4.	Total Chromium	mg/kg	2.30	Ministry of agriculture Manual
5.	Cadmium	mg/kg	ND	Ministry of agriculture Manual



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ULR No. : TC636623000005225F
Test Report Date: 21/10/2023

Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **Ambient Air Quality Monitoring**
Date of Sampling : 13/10/2023
Time of Sampling (Hrs) : 11:30 AM
Sample Received at Lab : 16/10/2023
Test Started On : 16/10/2023
Test Completed On : 20/10/2023
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 5182 (Part 14)
Sampling Location : Batching Plant at Camp-2
Avg. Flow Rate of Air for RDS (m3/min) : 1.12
Avg. Flow Rate of Air for FPS (m3/hr) : 0.98
Monitoring Conducted By : Mr. Rajendra Pratap
Ambient Temperature (°C) : 25
Sampling Duration (Hrs.) : 24 Hrs.

Analysis Report

Sr. No.	Parameters	Test Results	Standard Limit	Duration	Test Method
1.	Particulate Matter (PM _{2.5}), µg/m ³	35.70	60	24 hrs	40CFR Appendix L Part 53 CPCB Guidelines
2.	Particulate Matter (PM ₁₀), µg/m ³	75.20	100	24 hrs	IS:5182(P-23)
3.	Sulphur Dioxide (as SO ₂), µg/m ³	17.40	80	24 hrs	IS:5182(P-2)
4.	Nitrogen Dioxide (as NO ₂), µg/m ³	24.20	100	24 hrs	IS:5182(P-6)

Remark: *ND= Not Detected; NA= Not Applicable, DL-Detection Limit



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Distt. Sambhal-244303, UP, INDIA

ULR No. : TC636623000005226F
Test Report Date: 21/10/2023

Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : Ambient Noise
Date of Sampling : 13/10/2023
Purpose of Monitoring : To Check the Pollution Load
Method of Sampling : IS 9989
Monitoring Conducted By : NL

Analysis Report

Sr. No.	Location	Test Result dB(A) Day Time	Test Result dB(A) Night Time
Permissible Limit in *dB(A) Leq for Industrial Area		75 dB(A)	70dB(A)
1	Batching Plant at Camp-2	73.2	65.4

Remark: *dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.
CPCB = Central Pollution Control Board

Note: The Noise Ambient Air Quality Standards are given for reference

Area Code	Category of Area	Limits dB (A) Leq	
		Day Time (6AM – 10PM)	Night Time (10PM – 06AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40



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ULR No. : TC636623000005227F
Test Report Date: 21/10/2023

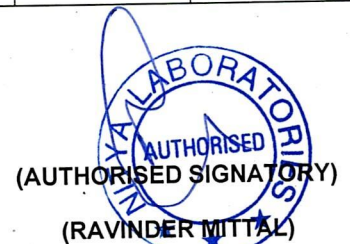
Project:Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars:

Nature of the Sample : **Flue Gas Monitoring**
Date of Sampling : 13/10/2023
Sample Received at Lab : 16/10/2023
Test Started On : 16/10/2023
Test Completed On : 20/10/2023
Purpose of Monitoring : To Check the Pollution Level
Sample Description : Stack Attached to DG of Capacity 180 KVA of Batching Plant at Camp-2
Method of Sampling : IS: 11255 (P-7)
Normal Operating Schedule : As per requirement
Type of Stack /Duct : Mild Steel
Stack Height from Ground Level (m) : 6
Diameter of the Stack (cm) : 1.0
Sampling Duration (min) : 40
Observations:
Flue Gas Temperature °C : 192
Ambient Air Temperature °C : 25
Flue Gas Velocity (m/s) : 18.52

Analysis Report

Sr. No.	Parameter	Unit	Test Results	Emission Limits	Test Method
1	Particulate Matter, (as PM)	g/kWh	0.10	0.2	IS:11255(P-1)
2	Oxide of Nitrogen (as NO _x)	g/kWh	0.23	0.40	IS:11255(P-7)
3	Carbon Monoxide as CO	g/kWh	2.0	3.5	IS:13270



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ULR No. :

TC636623000005228F

Test Report Date:

21/10/2023

Project:Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **DG Noise**
Date of Sampling : **13/10/2023**
Purpose of Monitoring : **To Check the Pollution Load**
Method of Sampling : **IS 9989**
Instrument Used : **Sound Level Meter**
Place of Monitoring : **DG Set of Capacity 180 KVA of Batching Plant atCamp-2**

Analysis Report

Sr. No.	Location	Test Result dB (A)	Test Method	Standard	Remark
1	Ambient Noise Level	56.4	NL/SOP/ENV-05 based IS:9989	≤ 75	DG Set (s) non-Operational
2	Ambient Noise Level	88.4			DG Set (s) Operational
3	1 meter Surface Acoustic enclosure when door is closed	63.9	NL/SOP/ENV-08 based on CPCB Guidelines:2018		DG Set (s) Operational

Remark:

*dB (A) Leq denotes the time weighted average of the level of sound in decibel on scale 'A' which is relatable to human hearing.

CPCB = Central Pollution Control Board



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ULR No. :

TC636623000005229F

Test Report Date:

21/10/2023

Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **Drinking Water**
Sample Quantity & Packaging : 1Liter, Pet Bottle
Sample Received at Lab : 16/10/2023
Test Started on : 16/10/2023
Test Completed : 20/10/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 13/10/2023
Place of Sampling : Office Areaat Camp-2

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Requirement IS:10500		Protocol
				Desirable	Permissible	
1.	pH	-	7.40	6.5-8.5	6.5-8.5	IS:3025 (P-11)
2.	Color	Hazen	<5	5	15	IS:3025 (P-4)
3.	Odour		Agreeable	Agreeable	Agreeable	IS:3025 (P-5)
4.	Turbidity	NTU	<1	1	5	APHA 23 rd Ed.
5.	Total Dissolved Solids	mg/l	310	500	2000	IS:3025 (P-16)
6.	Total Hardness as (CaCO ₃)	mg/l	160	200	600	IS:3025 (P-21)
7.	Total Alkalinity as CaCO ₃	mg/l	130	200	600	IS:3025 (P-23)
8.	Chlorides as Cl	mg/l	90	250	1000	IS:3025(P-32)
9.	Sulphate as SO ₄	mg/l	14.35	200	400	APHA 23 rd Ed.
10.	Nitrates as NO ₃	mg/l	0.35	45	No Relaxation	IS:3025 (P-34)
11.	Calcium as Ca	mg/l	50	75	200	IS:3025 (P-40)
12.	Magnesium as Mg	mg/l	8.50	30	100	APHA 23 rd Ed.
13.	Residual Free Chlorine	mg/l	ND[DL- 0.2]	0.2	1	IS:3025 (P-26)
14.	Total Ammonia	mg/l	0.11	0.5	No Relaxation	IS:3025 (P-34)
15.	Fluoride as F	mg/l	ND [DL- C 1]	1.0	1.5	IS:3025 (P-60)



TC-6366

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ULR No. : TC636623000005230F

Test Report Date: 21/10/2023

Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **Construction Water**
Sample Quantity & Packaging : 1 Litre, Pet Bottle
Sample Received at Lab : 16/10/2023
Test Started on : 16/10/2023
Test Completed : 20/10/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 13/10/2023
Place of Sampling : Batching Plant at Camp-2

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Limit as per IS: 456	Protocol
1	pH	-	7.30	7.34	IS:3025 (P-11)
2	Chloride as Cl	mg/l	420	2000	IS:3025 (P-32)
3	Sulphate as SO ₄	mg/l	205	400	IS:3025 (P-24)
4	Total Suspended Solids	mg/l	8	2000	IS:3025 (P-17)
5	Alkalinity (0.02 N H ₂ SO ₄ used in 100 ml)	mg/l	13	25	IS:3025 (P-23)



NOTE: The laboratory accepts the responsibility for content of report. The results contained in this test report related only to the sample tested. Test report shall not be reproduced except in full, without written approval of the laboratory. This report is intended only for your guidance and not for legal purpose or for advertisement. This report shall not be reproduced except in full without the written approval of this organization. Copies will be destroyed after 30 days from the date of issue of test certificate unless otherwise specified. Any complaints about this report should be communicated in writing within 7 days of issue of this report. Total liability of Nitya Laboratories is limited invoiced amount only. If you have any complaint/feedback regarding the sample collection/testing/test report, please send an email at info@nityalab.com and call at +91-191-2465597, +91-9873924093

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Test Report

Issued To **M/s CDS Infra Projects. Ltd.**

Camp-01, Plot No.533, Sambhal-Anup Shahar
Road, Village Khirani, Mohuiddinpur
Distt. Sambhal-244303, UP, INDIA

ULR No. :

TC636623000005231F

Test Report Date:

21/10/2023

Project: Development of an Access Controlled Six Lane (expandable to Eight Lane) Green Expressway from Meerut to Prayagraj "Ganga Expressway" from Km 70+000 to Km137+600 in the State of Uttar Pradesh (Group-1B).

Sample Particulars

Nature of the Sample : **Soil**
Sample Quantity & Packaging : 1Kg, Poly Bag
Sample Received at Lab : 16/10/2023
Test Started on : 16/10/2023
Test Completed : 20/10/2023
Method of Sampling : SOP/B/D-3
Date of Sampling : 13/10/2023
Place of Sampling : Batching Plant at Camp-2

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Protocol
1.	Lead	mg/kg	ND	Ministry of agriculture Manual
2.	Nickel	mg/kg	0.50	Ministry of agriculture Manual
3.	Arsenic	mg/kg	ND	Ministry of agriculture Manual
4.	Total Chromium	mg/kg	2.80	Ministry of agriculture Manual
5.	Cadmium	mg/kg	ND	Ministry of agriculture Manual



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