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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),} ug/m ³	23.60	100	24 hrs	IS:5182(P-6)

*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.

Camp-01, Plot No.533, Sambhal-Anup Shahar

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

ULR No. :

TC636623000005212F

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
Permissibl	e Limit in *dB(A) Leqfor 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			
1	N N	Day Time (6AM – 10PM)	Night Time (10PM – 06AM)		
Α	Industrial Area	75	70		
В	Commercial Area	65	55		
С	Residential Area	55	45		
D	Silence Zone	50	40		





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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. :

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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Test Report

Issued To M/s CDS Infra Projects. Ltd.

ULR No. :

TC636623000005214F

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

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		DG Set (s) non- Operational
2	Ambient Noise Level	91.2	based 15.9969	≤ 75	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



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^{*}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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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. :

TC636623000005215F

Test Report Date: 2

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

Camp-1

Analysis Report

Sr. No.	Parameters	Unit	Test Results	s Requirement IS:10500		Protocol
	5			Desirable	Permissible	
1.	pH	- 1	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 CaCO₃	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

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Test Report

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Camp-01, Plot No.533, Sambhal-Anup Shahar

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

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

20/10/2020

Method of Sampling

SOP/B/D-3 13/10/2023

Date of Sampling
Place of Sampling

Batching Plant of Camp-1

Analysis Report

Sr. No.	Parameters	Unit	Test Results	Limit as per IS: 456	Protocol
, 1	На	- '	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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ULR No. :

TC636623000005217F

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

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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Test Report

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Camp-01, Plot No.533, Sambhal-Anup Shahar

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

Road, Village Khirani, Mohuiddinpur 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

Ambient Air Quality Monitoring Nature of the Sample

13/10/2023 Date of Sampling 10:30 AM Time of Sampling (Hrs) 16/10/2023 Sample Received at Lab Test Started On 16/10/2023 Test Completed On 20/10/2023

To Check the Pollution Load Purpose of Monitoring

IS 5182 (Part 14) Method of Sampling

Batching Plant atCamp-3 Sampling Location

1.10 Avg. Flow Rate of Air for RDS (m3/min) 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
9					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),} ug/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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Road, Village Khirani, Mohuiddinpur Distt. Sambhal-244303, UP, INDIA 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	E Limit in *dB(A) Leqfor 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)			
Α	Industrial Area	75	70			
В	Commercial Area	65	55			
С	Residential Area	55	45			
D	Silence Zone	50	40			



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TC636623000005220F

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-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

M/s CDS Infra Projects. Ltd. Issued To

ULR No. :

TC636623000005221F

Camp-01, Plot No.533, Sambhal-Anup Shahar

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

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

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 Setof Capacity 180 KVA of Batching Plant at Camp-3

Analysis Report

Sr. No.	Location	Test Result	Test Method	Standard	Remark
	,	dB (A)			
1	Ambient Noise Level	56.4	NII (OOD/ENIV OF		DG Set (s) non-
	, and the second		NL/SOP/ENV-05		Operational
2	Ambient Noise Level	87.5	based IS:9989		DG Set (s)
	Ambient relies 2575.	9		≤ 75	Operational
3	1 meter Surface Acoustic enclosure when door	62.7	NL/SOP/ENV-08		DG Set (s)
	is closed		based on CPCB		Operational
	10 010000		Guidelines:2018		

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



6366

(RAVINDER MITTAL)

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Test Report

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ULR No. :

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Camp-01, Plot No.533, Sambhal-Anup Shahar

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

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

Office Area at Camp-3

Analysis Report

Sr. No. Parameters		Unit	Test Results	Requireme	nt IS:10500	Protocol
	• .		Ī	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	120	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
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0.00	20 20

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Test Report

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

Road, Village Khirani, Mohuiddinpur 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 Place of Sampling 13/10/2023 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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Test Report

M/s CDS Infra Projects. Ltd. Issued To

ULR No. :

TC636623000005224F

Camp-01, Plot No.533, Sambhal-Anup Shahar

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

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

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
0.	- Caarrina		:	



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

Road, Village Khirani, Mohuiddinpur Distt. Sambhal-244303, UP, INDIA ULR No. :

Ambient Air Quality Monitoring

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 :

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 atCamp-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
1. :	Tartiourate matter (***25775			·	53 CPCB Guidelines
	Particulate Matter (PM ₁₀), µg/m ³	75.20	100	24 hrs	IS:5182(P-23)
2.	Sulphur Dioxide (as SO ₂), µg/m ³	17.40	80	24 hrs	IS:5182(P-2)
3.	•	24.20	100	24 hrs	IS:5182(P-6)
4.	Nitrogen.Dioxide (as NO _{2),} ug/m ³	27.20	.50	2000 2000 2	

Remark:

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



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Test Report

Issued To

M/s CDS Infra Projects. Ltd.

Camp-01, Plot No.533, Sambhal-Anup Shahar

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

Road, Village Khirani, Mohuiddinpur 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
Permissibl	 e Limit in *dB(A) Leqfor 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		
В	Commercial Area	65	55		
C	Residential Area	55	45		
D	Silence Zone	50	40		



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

Test Report

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Camp-01, Plot No.533, Sambhal-Anup Shahar

Road, Village Khirani, Mohuiddinpur Distt. Sambhal-244303, UP, INDIA 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 16/10/2023

Sample Received at Lab

10/10/2020

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)

ь

Diameter of the Stack (cm)

1.0

Sampling Duration (min)

40

Observations:

Flue Gas Temperature °C

192

Ambient Air Temperature °C

25

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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Test Report

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Camp-01, Plot No.533, Sambhal-Anup Shahar

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

Road, Village Khirani, Mohuiddinpur Distt. Sambhal-244303, UP, INDIA 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		DG Set (s) non- Operational
2	Ambient Noise Level	88.4		≤ 75	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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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Test Réport Date:

ULR No.

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

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)
		Hazen	<5	5	15	IS:3025 (P-4)
2.	Color	Tiazeii		Agreeable	Agreeable	IS:3025 (P-5)
3.	Odour		Agreeable			
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- 0 1]	1.0	1.5	IS:3025 (P-60)
, , , , ,			18		l lab	MA

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Test Report

Issued To M/s CDS Infra Projects. Ltd.

ULR No. :

TC636623000005230F

Camp-01, Plot No.533, Sambhal-Anup Shahar

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

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

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	На		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)





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Test Report

Issued To M/s CDS Infra Projects. Ltd.

Camp-01, Plot No.533, Sambhal-Anup Shahar

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

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