

TEST REPORT

Test Report No.	: ELES/RNC/2024/4212	Report Release Date	: 29.07.2024
Service Order No.	: 4000024502	Service Order Date	: 01.07.2024
ULR No.	: TC135872400002147F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -I)	Sample Ref. No.	: ELES/RNC/2024/WA/4756
Address	: Plot No. M-6, Phase- VI, Gamaria, Jharkhand-832108	Location	: F/S Section -(I)
Plant Status	: Operational	Sampling Date	: 17.07.2024
Period of Analysis	: 19.07.2024 to 25.07.2024	Sample Received Date	: 19.07.2024
		Type of Sample	: Workzone Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C) : 29		2	Barometric Pressure (mmHg) : 746	
3	Relative Humidity (%) : 52		4	Weather Condition : Clear	
5	Longitude : 86°7'9.24"E		6	Latitude : 22°48'10.37"N	

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part- 23): 2022	278
Sulphur Di-Oxide (SO ₂)	µg/m ³	IS 5182 (Part- II/Sec I): 2023	17.9
Nitrogen Di-Oxide (NO ₂)	µg/m ³	IS 5182 (Part- 6): 2022	29.5


Reviewed by
AKASH KUMAR
Quality Manager
ELES PVT. LTD.

****End of Report****


Authorised Signatory
Dr. Deependra Kumar Sinha
Ph. D Environmental Engg.
ELES Pvt. Ltd. Technical Manager

TEST REPORT

Test Report No. : ELES/RNC/2024/4212	Report Release Date : 29.07.2024
Service Order No. : 4000024502	Service Order Date : 01.07.2024

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -I)	Sample Ref. No.	: ELES/RNC/2024/WA/4756
Address	: Plot No. M-6, Phase- VI, Gamaria, Jharkhand-832108	Location	: F/S Section -(I)
Plant Status	: Operational	Sampling Date	: 17.07.2024
Period of Analysis	: 19.07.2024 to 25.07.2024	Sample Received Date	: 19.07.2024
		Type of Sample	: Workzone Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C) : 29		2	Barometric Pressure (mmHg) : 746	
3	Relative Humidity (%) : 52		4	Weather Condition : Clear	
5	Longitude : 86°7'9.24"E		6	Latitude : 22°48'10.37"N	

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM2.5)	µg/m ³	IS 5182 (Part- 24): 2019	157


Reviewed by
AKASH KUMAR
Quality Manager
ELES PVT. LTD.

****End of Report****


Authorised Signatory
Dr. Deependra Kumar Sinha
Ph. D Environmental Engg.
ELES Pvt. Ltd. Technical Manager



ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)
GST NO:- 20AAECE9713D124

ENGINEERING SERVICES PVT. LTD.

Email: info@elespl.co.in, eles.ranchi@gmail.com
Phone no.: 0651-2290103
Website : www.elespl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/4213	Report Release Date	: 29.07.2024
Service Order No.	: 4000024502	Service Order Date	: 01.07.2024
ULR No.	: TC135872400002148F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -I)	Sample Ref. No.	: ELES/RNC/2024/WA/4757
Address	: Plot No. M-6, Phase- VI, Gamaria, Jharkhand-832108	Location	: F/S Section -(II)
		Sampling Date	: 17.07.2024
Plant Status	: Operational	Sample Received Date	: 19.07.2024
		Type of Sample	: Workzone Air
Period of Analysis	: 19.07.2024 to 25.07.2024	Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C) : 29		2	Barometric Pressure (mmHg) : 746	
3	Relative Humidity (%) : 52		4	Weather Condition : Clear	
5	Longitude : 86°7'10.45"E		6	Latitude : 22°48'14.09"N	

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part- 23): 2022	302
Sulphur Di-Oxide (SO ₂)	µg/m ³	IS 5182 (Part- II/Sec I): 2023	16.8
Nitrogen Di-Oxide (NO ₂)	µg/m ³	IS 5182 (Part- 6): 2022	30.2


Reviewed by
AKASH KUMAR
Quality Manager
ELES PVT. LTD.

****End of Report****


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Ph. D Environmental Engg.
ELES Pvt. Ltd. Technical Manager



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ENGINEERING SERVICES PVT. LTD.

Email: info@elespl.co.in, eles.ranchi@gmail.com
Phone no.: 0651-2290103
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CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -I)	Sample Ref. No.	: ELES/RNC/2024/WA/4757
Address	: Plot No. M-6, Phase- VI, Gamaria, Jharkhand-832108	Location	: F/S Section -(II)
Plant Status	: Operational	Sampling Date	: 17.07.2024
Period of Analysis	: 19.07.2024 to 25.07.2024	Sample Received Date	: 19.07.2024
		Type of Sample	: Workzone Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C) : 29		2	Barometric Pressure (mmHg) : 746	
3	Relative Humidity (%) : 52		4	Weather Condition : Clear	
5	Longitude : 86°7'10.45"E		6	Latitude : 22°48'14.09"N	

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM2.5)	µg/m ³	IS 5182 (Part- 24): 2019	178


Reviewed by
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Quality Manager
ELES PVT. LTD.

****End of Report****


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Dr. Deependra Kumar Sinha
Ph. D Environmental Engg.
ELES Pvt. Ltd. Technical Manager

TEST REPORT

Test Report No.	: ELES/RNC/2024/4214	Report Release Date	: 29.07.2024
Service Order No.	: 4000024502	Service Order Date	: 01.07.2024
ULR No.	: TC135872400002149F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -I)	Sample Ref. No.	: ELES/RNC/2024/WA/4758
Address	: Plot No. M-6, Phase- VI, Gamaria, Jharkhand-832108	Location	: F/S Section -(III)
Plant Status	: Operational	Sampling Date	: 18.07.2024
Period of Analysis	: 19.07.2024 to 25.07.2024	Sample Received Date	: 19.07.2024
		Type of Sample	: Workzone Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C) : 29		2	Barometric Pressure (mmHg) : 746	
3	Relative Humidity (%) : 53		4	Weather Condition : Clear	
5	Longitude : 86°7'11.98"E		6	Latitude : 22°48'13.17"N	

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part- 23): 2022	235
Sulphur Di-Oxide (SO ₂)	µg/m ³	IS 5182 (Part- II/Sec I): 2023	16.8
Nitrogen Di-Oxide (NO ₂)	µg/m ³	IS 5182 (Part- 6): 2022	30.2


Reviewed by
AKASH KUMAR
Quality Manager
ELES PVT. LTD.

****End of Report****


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Dr. Deependra Kumar Sinha
Ph. D Environmental Engg.
ELES Pvt. Ltd. Technical Manager

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Test Report No. : ELES/RNC/2024/4214	Report Release Date : 29.07.2024
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CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -I)	Sample Ref. No.	: ELES/RNC/2024/WA/4758
Address	: Plot No. M-6, Phase- VI, Gamaria, Jharkhand-832108	Location	: F/S Section -(III)
Plant Status	: Operational	Sampling Date	: 18.07.2024
Period of Analysis	: 19.07.2024 to 25.07.2024	Sample Received Date	: 19.07.2024
		Type of Sample	: Workzone Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C)	: 29	2	Barometric Pressure (mmHg)	: 746
3	Relative Humidity (%)	: 53	4	Weather Condition	: Clear
5	Longitude	: 86°7'11.98"E	6	Latitude	: 22°48'13.17"N

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM2.5)	µg/m ³	IS 5182 (Part- 24): 2019	140


Reviewed by
AKASH KUMAR
Quality Manager
ELES PVT. LTD.

****End of Report****


Authorised Signatory
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Ph. D Environmental Engg.
ELES Pvt. Ltd. Technical Manager

TEST REPORT

Test Report No.	: ELES/RNC/2024/4215	Report Release Date	: 29.07.2024
Service Order No.	: 4000024502	Service Order Date	: 01.07.2024
ULR No.	: TC135872400002150F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -I)	Sample Ref. No.	: ELES/RNC/2024/WA/4759
Address	: Plot No. M-6, Phase- VI, Gamaria, Jharkhand-832108	Location	: Heat Treatment
Plant Status	: Operational	Sampling Date	: 18.07.2024
Period of Analysis	: 19.07.2024 to 25.07.2024	Sample Received Date	: 19.07.2024
		Type of Sample	: Workzone Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C) : 29		2	Barometric Pressure (mmHg) : 746	
3	Relative Humidity (%) : 53		4	Weather Condition : Clear	
5	Longitude : 86°7'11.73"E		6	Latitude : 22°48'10.53"N	

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part- 23): 2022	290
Sulphur Di-Oxide (SO ₂)	µg/m ³	IS 5182 (Part- II/Sec I): 2023	21.5
Nitrogen Di-Oxide (NO ₂)	µg/m ³	IS 5182 (Part- 6): 2022	36.8


Reviewed by
AKASH KUMAR
Quality Manager
ELES PVT. LTD.

****End of Report****


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Ph. D Environmental Engg.
ELES Pvt. Ltd. Technical Manager



ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)
GST NO:- 20AAECE9713D1Z4

ENGINEERING SERVICES PVT. LTD.

Email: info@elespl.co.in , eles.ranchi@gmail.com
Phone no.: 0651-2290103
Website : www.elespl.co.in

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CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -I)	Sample Ref. No.	: ELES/RNC/2024/WA/4759
Address	: Plot No. M-6, Phase- VI, Gamaria, Jharkhand-832108	Location	: Heat Treatment
		Sampling Date	: 18.07.2024
Plant Status	: Operational	Sample Received Date	: 19.07.2024
		Type of Sample	: Workzone Air
Period of Analysis	: 19.07.2024 to 25.07.2024	Sampling Procedure	: ELES/DOC/SMPL/02
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C) : 29		2	Barometric Pressure (mmHg) : 746	
3	Relative Humidity (%) : 53		4	Weather Condition : Clear	
5	Longitude : 86°7'11.73"E		6	Latitude : 22°48'10.53"N	

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM2.5)	µg/m ³	IS 5182 (Part- 24): 2019	169


Reviewed by
AKASH KUMAR
Quality Manager
ELES PVT. LTD.

****End of Report****


Authorised Signatory
Dr. Deependra Kumar Sinha
Ph. D Environmental Engg.
ELES Pvt. Ltd. Technical Manager



JHARKHAND STATE POLLUTION CONTROL BOARD
ADITYAPUR, JAMSHEDPUR
AMBIENT AIR QUALITY REPORT (R&D)

Lab. Ref. No. - 164/2024

Name of the Industry

M/s Ramkrishna Forging Ltd., Plant - I
At - Plot No. - M/5-6, 6th Phase, AIA,
Gamaharia, Dist.- Saraikela Kharsawan

No. of Sampling point
Sampling Position:

Date of Sampling

:- 01.04.2024

Weather Condition

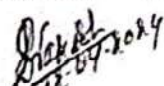
:- Clear


1. Near Main Gate No. - 01
2. Near Gate No. - 02
3. West side of the plant


Time	SO ₂	NO _x	RSPM	Norms in µg/m ³ SO ₂ - 80 NO _x - 80 RSPM - 100
Point- 1				
10.00 AM TO 02.00 PM	40.57	48.87	104.82	
02.00 PM TO 06.00 PM	33.99	41.35		
10.00 PM TO 02.00 AM	37.82	46.36	74.50	
02.00 AM TO 06.00 AM	29.60	36.34		
Maximum	40.57	48.87	104.82	
Average	35.49	43.23	89.66	
Point-2				
10.10 AM TO 02.10 PM	42.76	51.37	102.82	
02.10 PM TO 06.10 PM	39.47	47.61		
06.10 PM TO 10.10 PM	36.18	43.86	98.41	
10.10 PM TO 02.10 AM	32.89	40.10		
Maximum	42.76	51.37	102.82	
Average	37.82	45.73	98.41	
Point- 3				
10.20 AM TO 02.20 PM	35.08	42.60	107.50	
02.20 PM TO 06.20 PM	41.66	50.12		
06.20 PM TO 10.20 PM	37.82	45.73	79.69	
10.20 PM TO 02.20 AM	31.25	38.22		
Maximum	41.66	50.12	107.50	
Average	36.45	44.17	93.59	

Note :- All values are expressed in Micro gram/cubic meter.

Remarks :- The value of all parameters were observed within the limit prescribed


ASU
Jamshedpur


Regional Officer
Jamshedpur 13/04/24


Board Analyst 15/04/2024



JHARKHAND STATE POLLUTION CONTROL BOARD
REGIONAL OFFICE-CUM-LABORATORY, MB/15, NEW HOUSING COLONY
ADITYAPUR, JAMSHEDPUR

Lab Ref. No- 165/2024

NOISE LEVEL

The Ambient Noise Level report at various location inside the premises of
M/s Ramakrishna Forging Ltd., Plant - I, At - Plot No. - M/5-6, 6th Phase, AIA, Gamaharia, Dist.-Saraikela Kharsawan
taken on 01.04.2024 from 11.30 PM to 12.10 PM

Sl. No.	Location	Status of operation of Plant	Prescribed limit in day time	Noise Level dB(A)
1	Near Main Gate No. - 01	Operation	75 dB(A)	72.4
2	Near Main Gate No. - 02	- Do -	75 dB(A)	71.9
3	West side of the plant	- Do -	75 dB(A)	76.5

Remarks: The value of Noise Level at point no. - 03 was observed beyond the limit prescribed.

12-04-2024
ASO
Jamshedpur

13/04/24
Regional Officer
Jamshedpur.

15/04/2024
Board Analyst




JHARKHAND STATE POLLUTION CONTROL BOARD, RANCHI
STACK MONITORING REPORT

Lab. Ref. No :- 166/2024

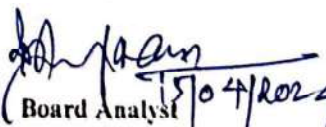
Name of the Industry	:	M/s Ramkrishna Forgings Ltd., Plant - I At - Plot No. - M/5-6, 6 th Phase, AIA, Gamaharia, Dist.- Saraikela Kharsawan.
Date of sampling	:	01.04.2024
Weather condition	:	Clear
Stack number if any	:	Stack no:- 01
Height of stack from ground (in meter)	:	20
Inner dimension of stack (in meter)	:	0.3
Height of port hole (in meter)	:	7
Atmospheric temperature (in °c)	:	35
Stack gas temperature (in °c)	:	117
Stack gas velocity (in Nm ³ /hr.)	:	8.02
Volumetric flow rate (in Nm ³ /hr.)	:	1544.2818
Dust concentration (in mg/Nm ³)	:	82.25
Emission rate (in kg/hr.)	:	0.127
Name of fuel & quantity used per shift	:	Furness oil -200 Ltrs/Day
Production capacity	:	Forgings item - 6 MTD
Stack attached to GASES	:	Recuperator
Sulphur dioxide (in mg/Nm ³)	:	47.14 and emission rate (in kg/hr.) 0.072
Nitrogen oxides (in mg/Nm ³) as NO ₂	:	21.14

REMARKS :-

The value of dust concentration was observed within the limit prescribed.


ASO
Jamshedpur


Regional Officer
Jamshedpur


Board Analyst
01/04/2024

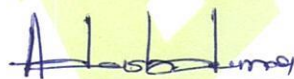
TEST REPORT

Test Report No. : ELES/RNC/2024/4222	Report Release Date : 29.07.2024
Service Order No. : 4000024502	Service Order Date : 01.07.2024
ULR No. : TC135872400002157F	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -I)	Sample Ref. No.	: ELES/RNC/2024/EF/4769
Address	: Plot No. M-6, Phase- VI, Gamaria, Jharkhand-832108	Sampling Date	: 18.07.2024
Plant Status	: Operational	Sample Received Date	: 19.07.2024
Period of Analysis	: 19.07.2024 to 27.07.2024	Type of Sample	: Effluent Water
		Source of Sample	: Plant Outlet (Near Main Gate)
		Sampling Procedure	: ELES/DOC/SMPL/01
		Sampling Done By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

Discipline : Chemical		Group : Pollution & Environment		Discharge Limits – CPCB EPR, 1986 Schedule VI	
Parameter	Unit	Test Protocol	Result	Inland Surface Water	Land for Irrigation
pH (at 24.8 °C)	-	APHA 24 th Ed.2023,4500-H ⁺	7.80	5.5-9.0	5.5-9.0
Total Dissolved Solids (TDS)	mg/L	IS 3025 (Part-16): 2023	2880	--	--
Total Suspended Solids (TSS)	mg/L	IS 3025 (Part-17): 2022	90.2	100	200
Chemical Oxygen Demand (COD)	mg/L	IS 3025 (Part-58): 2023	192	250	--
Biochemical Oxygen Demand (BOD) (at 27 °C for 3 days)	mg/L	IS 3025 (Part-44): 2023	22.2	30	100
Oil & Grease	mg/L	IS 3025 (Part-39): 2021	4.8	10	10
Total Hardness (as CaCO ₃)	mg/L	APHA 24 th Ed.2023, 2340C	1440	--	--
Chloride (as Cl)	mg/L	IS 3025 (Part-32): 2019	1040	--	--
Sulphate (as SO ₄)	mg/L	APHA 24 th Ed.2023, 4500 SO ₄ ⁻² E	448	--	--
Calcium (as Ca)	mg/L	IS 3025 (Part-40): 2019	384	--	--
Discipline : Chemical		Group : Residues in Water			
Magnesium (as Mg)	mg/L	IS 3025 (Part-46): 2023	138	--	--
Iron (as Fe)	mg/L	APHA 24 th Ed.2023; 3111B	0.290	3.0	--

Remarks: pH done at Lab.



Reviewed by
AKASH KUMAR
Quality Manager
ELES PVT LTD

****End of Report****

Page 1 of 1



Authorised Signatory
Dr. Deependra Kumar Sinha
Ph. D Environmental Engg.
ELES Pvt Ltd Technical Manager

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"Save Environment, Save Future"

TEST REPORT

Test Report No. : ELES/RNC/2024/4216	Report Release Date : 29.07.2024
Service Order No. : 4000024502	Service Order Date : 01.07.2024
ULR No. : TC135872400002151F	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant –I)	Sampling Date	: 18.07.2024
Address	: Plot No. M-6, Phase- VI, Gamaria, Jharkhand-832108	Sampling Received Date	: 19.07.2024
Plant Status	: Operational	Type of Sample	: Source Noise (Workzone)
		Sampling Procedure	: ELES/DOC/SMPL/03
		Sampling Done By	: ELES Pvt. Ltd.
		Period of Analysis	: 19.07.2024 to 25.07.2024

Discipline : Chemical			Group : Atmospheric Pollution				
Location	Unit	Test Protocol	Result				Regulatory Limit
F/S Section -(I)	dB(A)	IS 4758: 2017	Time	L _{Max}	L _{Min}	L _{eq}	90 dB(A)
Sample ID: ELES/RNC/2024/WN/4760			Day Time	90.1	82.5	85	
Latitude:22°48'14.09"N			Night Time	85.2	80.8	82	
Longitude :86°7'10.45"E							
F/S Section -(II)	dB(A)	IS 4758: 2017	Time	L _{Max}	L _{Min}	L _{eq}	
Sample ID: ELES/RNC/2024/WN/4761			Day Time	91.4	82.0	87	
Latitude:22°48'10.37"N			Night Time	88.4	79.2	84	
Longitude :86°7'9.24"E							
F/S Section -(III)	dB(A)	IS 4758: 2017	Time	L _{Max}	L _{Min}	L _{eq}	
Sample ID: ELES/RNC/2024/WN/4762			Day Time	92.0	85.7	89	
Latitude:22°48'13.17"N			Night Time	89.2	81.9	87	
Longitude :86°7'11.98"E							

TEST REPORT

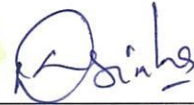
Test Report No.	: ELES/RNC/2024/4216	Report Release Date	: 29.07.2024
Service Order No.	: 4000024502	Service Order Date	: 01.07.2024
ULR No.	: TC135872400002151F		

Discipline : Chemical			Group : Atmospheric Pollution				
Location	Unit	Test Protocol	Result			Regulatory Limit	
Heat Treatment	dB(A)	IS 4758: 2017	Time	L _{Max}	L _{Min}	L _{eq}	90 dB(A)
Sample ID: ELES/RNC/2024/WN/4763			Day Time	88.5	79.8	83	
Latitude:22°48'10.53"N			Night Time	84.5	76.1	80	
Longitude :86°7'11.73"E							



Reviewed by
AKASH KUMAR
Quality Manager
ELES PVT. LTD.

****End of Report****



Authorised Signatory
Dr. Deependra Kumar Sinha
Ph. D Environmental Engg.
ELES Pvt. Ltd. Technical Manager