



RAMKRISHNA FORGINGS LIMITED

PLANT : I
PLOT NO: M-6, PHASE VI, GANARIA,
JAMSHEDPUR - 832108, JHARKHAND (INDIA)
PHONE : +91 657 2326900, 2326997, 2326996
EMAIL : forgings-division@ramkrishnaforgings.com

Ref: RKFL/Plant1/JSR/2024/01

Date: 09.09.2024

To,
The Regional officer
Jharkhand State Pollution Control Board
M/B15, New Housing colony
Adityapur, Jamshedpur

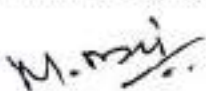
Sub: Environmental Annual Return Form-V

Sir,
We are submitting herewith the Environmental Annual statement Form-V for the financial year ending 31st March' 2024 in duplicate.

Kindly acknowledge the receipt.

Thanking You,

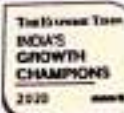
For Ramkrishna Forgings Limited


(Authorised Signatory)

Encl. Form-V

REGISTERED & CORPORATE OFFICE

23 CIRCUS AVENUE, KOLKATA 700017, WEST BENGAL, INDIA
PHONE : (+91 33)4082 0900 / 7122 0900, FAX: (+91 33)4082 0998 / 7122 0998
EMAIL : info@ramkrishnaforgings.com, Website : www.ramkrishnaforgings.com
CIN NO. : L74210WB1981PLC034281



RAMKRISHNA FORGINGS LIMITED, PLANT-1

**Adityapur Industrial Area, Gamharia, Dist- Seraikela-Kharsawan,
Jharkhand**

ENVIRONMENTAL STATEMENT

**FOR
YEAR 2023-2024**

**ENVIRONMENTAL STATEMENT
FORM -V
(SEE RULE 14)**

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR ENDING THE 31ST MARCH 2021

PART – A

1. Name and address of the
Owner /Occupier of the
Industry operation or process : **SRI MAHABIR PRASAD JALAN, CHAIRMAN**
Ramkrishna Forgings Limited, Plant-I
Plot No. M5, M6, Phase- VI, Adityapur Industrial
Area Gamharia, Dist- Seraikela-Kharswan, Jharkhand

2. Industry Category

Primary – (S/C Code) : Large Scale

Secondary – (S/C Code)

3. Production Capacity – Units : 5000 TPM

4. Year of establishment

Commercial production : 1985

5. Date of last environmental
Statement submitted : 16.09.2023

PART – B

WATER AND RAW MATERIAL CONSUMPTION

1. Water consumption m3/d	:	116
Process	:	36
Cooling	:	47
Domestic	:	33

Name of Product	Process water consumption per unit of the product output	
	During the previous Financial year	During the Current Financial year
Various Forged, Machined & Finished Components	1.10 KL/MT	0.88 KL/MT

2. Raw Material Consumption

* Name of Raw Materials output Name of product		Consumption of Raw Material Per unit of Out put	
		During the previous Financial year	During the current Financial year
Carbon Alloy Steel	Various Forged, Machined & Finished Components	53749 MT	54608 MT

Industry may use codes if disclosing details of raw material worth contractual obligations otherwise all industries have to name the raw materials used.

PART – C

Pollution discharged to Environment/unit of output (Parameter as specified in the consent issued)

(1)	Pollutants	Quantity of pollutant pollutants in discharge from prescribed standards with reasons	Concentrations of (mass/volume)	Percentage of variation
(a)	WATER	Fresh evaluation work has been done by M/s ELESPL duly authorized by JSPCB. Report enclosed		
(b)	AIR			

PART – D

Hazardous Wastes

(as specified under Hazardous Wastes/Management and Handling Rules, 1989)

Hazardous Wastes		Total Quantity (kg.)	
		During the previous Financial year	During the current Financial year
(a)	From process		
	• Used/Waste Oil	210 L	2310 L
	• Used/Waste Grease	0	0
	• Paint Sludge	0	0
	• ETP Sludge	0	0
	• Oil Soaked Cotton/Hand Gloves	2790 KG	60 KG
(b)	From pollution Control Facilities	Nil	Nil

PART – E

Solid Wastes

		Total Quantity (MT)	
		During the previous Financial year	During the current Financial year
(a)	From process	6833 MT	5755 MT
(b)	From pollution Control Facilities	Nil	Nil
(c)	(1) Quantity recycled or re-utilized within the unit	Total Quantity sold for reutilisation	
	(2) Sold		
	(3) Disposed		

PART - F

Please specify the characterizations (in term of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

Two types of waste generated- Hazardous and Non Hazardous.

Hazardous Wastes i.e. Used/Waste Oil and Grease etc. It is stored at demarcated storage area under Shed in steel barrels and sold to the authorized recycler, handlers at regular intervals.

ETP Sludge, Paint Sludge, Oil Soaked cotton etc. are disposed to the TSDF registered with JSPCB/CPCB.

Non- Hazardous Wastes i.e. Raw material scrap, used drums and paper waste etc. are regularly disposed to the authorized vendors.

PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production:

Implementation of ETP/Oil separator system for reusing the waste water, RWH for maintaining ground water table, implementation of stack and Fume extraction system at various points in the plant and plantation at various locations within and outside the premises.

PART - H

Additional measures /investment proposal for environmental protection including abatement of pollution, prevention of pollution:

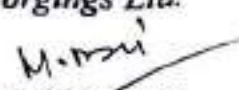
Intensive plantation has been done and in process as an additional investment proposal for trees outside the factory premises to the various locations.

PART-I

Any other particulars for improving the quantity of the environment.

The latest technology available/suggested by the Board in order to improve the environment is being adhered.

Ramkrishna Forgings Ltd.


Authorised Signatory
Signature of the Applicant
Designation- Factory 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



TC-8839

TEST REPORT

Test Report No.	: ELES/RNC/2023/1883	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023
ULR No.	: TC883923000000860F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant-1)	Sample Ref. No.	: ELES/RNC/2023/GW/1649
Address	: Plot No.- M-6, Phase VI, Gamaria, Jharkhand- 832108.	Sampling Date	: 26.05.2023
Plant Status	: Operational	Sample Received Date	: 29.05.2023
Period of Analysis	: 29.05.2023 to 03.06.2023	Type of Sample	: Ground Water
		Source of Sample	: Borewell
		Location of Sample	: Near Garden
		Sampling Procedure	: ELES/DOC/SMPL/01
		Sample Collected By	: ELES Pvt. Ltd
		Sample Condition	: Sealed & Preserved

NABL Accredited					
Discipline : Chemical		Group : Water		Regulatory Limit as per IS 10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
pH (at 25.7 °C)	--	APHA 23 rd Ed.2017, 4500-H ⁺ -B	7.85	6.5-8.5	No Relaxation
Turbidity	NTU	APHA 23 rd Ed.2017, 2130 B	0.06	1.0	5.0
Total Dissolved Solids (TDS)	mg/L	APHA 23 rd Ed.2017, 2540B, C&D	988	500	2000
Total Alkalinity (as CaCO ₃)	mg/L	IS 3025 (Part-23):1986; RA2019	296	200	600
Total Hardness (as CaCO ₃)	mg/L	APHA 23 rd Ed.2017, 2340 C	418	200	600
Chloride (as Cl)	mg/L	APHA 23 rd Ed.2017, 4500 Cl-B	258	250	1000
Sulphate (as SO ₄ ⁻²)	mg/L	APHA 23 rd Ed.2017, 4500 SO ₄ ⁻² -E	74.4	200	400
Calcium (as Ca)	mg/L	IS 3025 (Part-40):1991;RA2019	110	75	200
Discipline : Chemical		Group : Residues in Water			
Magnesium (as Mg)	mg/L	IS 3025 (Part-46) :1994; RA2019	40.4	30	100
Iron (as Fe)	mg/L	APHA23 rd Ed.2017; 3111B & 3500 Fe B	0.219	1.0	1.0

Remarks: 1. pH done at Lab.

Rekha Saxena
Authorized Signatory
Rekha Saxena

B. Sc, M. Sc. (Botany)

Director

****End of Report****

Page 1 of 1

Sandip Bera
Authorized Signatory

SANDIP BERA

SENIOR MANAGER

ELES PVT. LTD.

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"Save Environment, Save Future"



ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)
GST NO:- 20AAECE97130124

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/2023/1883	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023
CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant-I)	Sample Ref. No.	: ELES/RNC/2023/GW/1649
Address	: Plot No.- M-6, Phase VI, Gamaria, Jharkhand- 832108.	Sampling Date	: 26.05.2023
		Sample Received Date	: 29.05.2023
		Type of Sample	: Ground Water
		Source of Sample	: Borewell
Plant Status	: Operational	Location of Sample	: Near Garden
		Sampling Procedure	: ELES/DOC/SMPL/01
Period of Analysis	: 29.05.2023 to 03.06.2023	Sample Collected By	: ELES Pvt. Ltd
		Sample Condition	: Sealed & Preserved

Discipline : Biological		Group : Water		Regulatory Limit as per IS 10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
<i>Escherichia coli</i> (E. coli) (Qualitative)	Per 100 mL	IS 15185:2016; RA2021	Not Detected	Shall not be Detected	
Total Coliform (Qualitative)	Per 100 mL	IS 15185: 2016; RA2021	Not Detected		

Rikha Saxena

Authorized Signatory

Rekha Saxena

B. Sc, M. Sc. (Botany)

Director

ELES Pvt. Ltd.

****End of Report****

Sandip Bera

Authorized Signatory

SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.



ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)
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Website : www.elespl.co.in



TC-0839

TEST REPORT

Test Report No.	: ELES/RNC/2023/1884	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023
ULR No.	: TC883923000000861F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant-1)	Sample Ref. No.	: ELES/RNC/2023/GW/1650
Address	: Plot No.- M-6, Phase VI, Gamaria, Jharkhand- 832108.	Sampling Date	: 26.05.2023
Plant Status	: Operational	Sample Received Date	: 29.05.2023
Period of Analysis	: 29.05.2023 to 03.06.2023	Type of Sample	: Ground Water
		Source of Sample	: Borewell
		Location of Sample	: Near Temple
		Sampling Procedure	: ELES/DOC/SMPL/01
		Sample Collected By	: ELES Pvt. Ltd
		Sample Condition	: Sealed & Preserved

NABL Accredited					
Discipline : Chemical		Group : Water		Regulatory Limit as per IS 10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
pH (at 25.7 °C)	--	APHA 23 rd Ed.2017, 4500-H ⁺ -B	6.94	6.5-8.5	No Relaxation
Turbidity	NTU	APHA 23 rd Ed.2017, 2130 B	0.17	1.0	5.0
Total Dissolved Solids (TDS)	mg/L	APHA 23 rd Ed.2017, 2540B, C&D	1065	500	2000
Total Alkalinity (as CaCO ₃)	mg/L	IS 3025 (Part-23):1986; RA2019	196	200	600
Total Hardness (as CaCO ₃)	mg/L	APHA 23 rd Ed.2017, 2340 C	384	200	600
Chloride (as Cl)	mg/L	APHA 23 rd Ed.2017, 4500 Cl-B	288	250	1000
Sulphate (as SO ₄ ⁻²)	mg/L	APHA 23 rd Ed.2017, 4500 SO ₄ ⁻² -E	94.2	200	400
Calcium (as Ca)	mg/L	IS 3025 (Part-40):1991;RA2019	103	75	200
Discipline : Chemical		Group : Residues in Water			
Magnesium (as Mg)	mg/L	IS 3025 (Part-46) :1994; RA2019	36.9	30	100
Iron (as Fe)	mg/L	APHA23 rd Ed.2017; 3111B & 3500 Fe B	0.182	1.0	1.0

Remarks: 1. pH done at Lab.

Rakha Saxena
Authorized Signatory
Rakha Saxena

****End of Report****

Sandip Bera
Authorized Signatory
SANDIP BERA

SENIOR MANAGER

Page 1 of 1

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"Save Environment. Save Future"



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PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
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ENGINEERING SERVICES PVT. LTD.

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CIN: U74999JH2018PTC011125

TEST REPORT

Test Report No.	: ELES/RNC/2023/1884	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023
CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant-1)	Sample Ref. No.	: ELES/RNC/2023/GW/1650
Address	: Plot No.- M-6, Phase VI, Gamaria, Jharkhand- 832108.	Sampling Date	: 26.05.2023
		Sample Received Date	: 29.05.2023
		Type of Sample	: Ground Water
		Source of Sample	: Borewell
Plant Status	: Operational	Location of Sample	: Near Temple
		Sampling Procedure	: ELES/DOC/SMPL/01
Period of Analysis	: 29.05.2023 to 03.06.2023	Sample Collected By	: ELES Pvt. Ltd
		Sample Condition	: Sealed & Preserved

Discipline : Biological		Group : Water		Regulatory Limit as per IS 10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
<i>Escherichia coli</i> (E. coli) (Qualitative)	Per 100 mL	IS 15185:2016; RA2021	Not Detected	Shall not be Detected	
Total Coliform (Qualitative)	Per 100 mL	IS 15185: 2016; RA2021	Not Detected		

Rakha Saxena
Authorized Signatory

Rakha Saxena
J. Sc, M. Sc. (Botany)
Director
ELES Pvt. Ltd.

****End of Report****

Sandip Bera
Authorized Signatory

SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.



ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
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Website : www.elespl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2023/1885	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023
ULR No.	: TC88392300000862F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant-1)	Sample Ref. No.	: ELES/RNC/2023/GW/1651
Address	: Plot No.- M-6, Phase VI, Gamaria, Jharkhand- 832108.	Sampling Date	: 26.05.2023
		Sample Received Date	: 29.05.2023
Plant Status	: Operational	Type of Sample	: Ground Water
		Source of Sample	: Borewell
Period of Analysis	: 29.05.2023 to 03.06.2023	Location of Sample	: Near Visitor Gate
		Sampling Procedure	: ELES/DOC/SMPL/01
		Sample Collected By	: ELES Pvt. Ltd
		Sample Condition	: Sealed & Preserved

NABL Accredited					
Discipline : Chemical		Group : Water		Regulatory Limit as per IS 10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
pH (at 25.7 °C)	—	APHA 23 rd Ed.2017, 4500-H ⁺ -B	7.50	6.5-8.5	No Relaxation
Turbidity	NTU	APHA 23 rd Ed.2017, 2130 B	0.86	1.0	5.0
Total Dissolved Solids (TDS)	mg/L	APHA 23 rd Ed.2017, 2540B, C&D	1098	500	2000
Total Alkalinity (as CaCO ₃)	mg/L	IS 3025 (Part-23):1986; RA2019	286	200	600
Total Hardness (as CaCO ₃)	mg/L	APHA 23 rd Ed.2017, 2340 C	376	200	600
Chloride (as Cl)	mg/L	APHA 23 rd Ed.2017, 4500 Cl-B	212	250	1000
Sulphate (as SO ₄ ⁻²)	mg/L	APHA 23 rd Ed.2017, 4500 SO ₄ ⁻² -E	74.8	200	400
Calcium (as Ca)	mg/L	IS 3025 (Part-40):1991;RA2019	96.4	75	200
Discipline : Chemical		Group : Residues in Water			
Magnesium (as Mg)	mg/L	IS 3025 (Part-46):1994; RA2019	30.1	30	100
Iron (as Fe)	mg/L	APHA23 rd Ed.2017; 3111 B & 3500 Fe B	0.298	1.0	1.0

Remarks: 1. pH done at Lab.

Rakha Saxena
Authorized Signatory
Rakha Saxena
B. Sc, M. Sc. (Botany)

****End of Report****

Sandip Bera
Authorized Signatory
SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.

Page 1 of 1

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Website : www.elespl.co.in

CIN: U74999JH2018PTC011125

TEST REPORT

Test Report No.	: ELES/RNC/2023/1885	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant-1)	Sample Ref. No.	: ELES/RNC/2023/GW/1651
Address	: Plot No.- M-6, Phase VI, Gamaria, Jharkhand- 832108.	Sampling Date	: 26.05.2023
		Sample Received Date	: 29.05.2023
Plant Status	: Operational	Type of Sample	: Ground Water
		Source of Sample	: Borewell
Period of Analysis	: 29.05.2023 to 03.06.2023	Location of Sample	: Near Visitor Gate
		Sampling Procedure	: ELES/DOC/SMPL/01
		Sample Collected By	: ELES Pvt. Ltd
		Sample Condition	: Sealed & Preserved

Discipline : Biological		Group : Water		Regulatory Limit as per IS 10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
<i>Escherichia coli</i> (<i>E. coli</i>) (Qualitative)	Per 100 mL	IS 15185:2016; RA2021	Not Detected	Shall not be Detected	
Total Coliform (Qualitative)	Per 100 mL	IS 15185: 2016; RA2021	Not Detected		

Rakha Saxena
 Authorized Signatory
Rakha Saxena
 B. Sc, M. Sc. (Botany)
 Director
 ELES Pvt. Ltd.

****End of Report****

Sandip Bera
 Authorized Signatory
SANDIP BERA
 SENIOR MANAGER
 ELES PVT. LTD.



ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
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GST NO:- 20AAECE9713D124

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Phone no.: 0651-2290103
Website : www.elespl.co.in



TC-8839

TEST REPORT

Test Report No.	: ELES/RNC/2023/1882	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023
ULR No.	: TC883923000000859F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -1)	Sample Ref. No.	: ELES/RNC/2023/DW/1653
Address	: Plot No. M-6, Phase VI, Gamaria, Jharkhand-832108	Sampling Date	: 26.05.2023
		Sample Received Date	: 29.05.2023
Plant Status	: Operational	Type of Sample	: Drinking Water
		Source of Sample	: Tap Water
Period of Analysis	: 29.05.2023 to 03.06.2023	Location of Sample	: Near Admin building
		Sample Collected by	: ELES/DOC/SMPL/01
		Sampling Procedure	: ELES Pvt.Ltd
		Sample Condition	: Sealed & Preserved

NABL Accredited				Regulatory Limit	
Discipline : Chemical		Group : Water		as per IS:10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
pH (at 25.7 °C)	--	APHA 23 rd Ed.2017, 4500-H ⁺ -B	6.55	6.5-8.5	No Relaxation
Turbidity	NTU	APHA 23 rd Ed.2017, 2130 B	0.42	1.0	5.0
Total Dissolved Solids (TDS)	mg/L	APHA 23 rd Ed.2017, 2540B,C&D	257	500	2000
Total Alkalinity (as CaCO ₃)	mg/L	APHA 23 rd Ed.2017, 2320 B	10.8	200	600
Total Hardness (as CaCO ₃)	mg/L	APHA 23 rd Ed.2017, 2340 C	42.6	200	600
Chloride (as Cl)	mg/L	APHA 23 rd Ed.2017, 4500 Cl- B	38.4	250	1000
Sulphate (as SO ₄)	mg/L	APHA 23 rd Ed.2017, 4500-SO ₄ ²⁻ E	4.82	200	400
Calcium (as Ca)	mg/L	APHA 23 rd Ed.2017, 3500 Ca- B	11.3	75	200
Discipline : Chemical		Group : Residues in Water			
Iron (as Fe)	mg/L	APHA23 rd Ed 2017; 3111B, & 3500 Fe B	0.083	1.0	No Relaxation
Magnesium (as Mg)	mg/L	IS 3025 (Part-46) :1994; RA2019	4	30	100

Remarks: pH done at Lab.

Rekha Saxena
Authorized Signatory
Rekha Saxena

B.Sc., M. Sc. (Botany)

Director

****End of Report****

Sandip Bera
Authorized Signatory

SANDIP BERA

SENIOR MANAGER

ELES PVT. LTD.

Page 1 of 1

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ENVIRONMENTAL LABORATORIES &

ENGINEERING SERVICES PVT. LTD.

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

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/2023/1882	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -1)	Sample Ref. No.	: ELES/RNC/2023/DW/1653
Address	: Plot No. M-6, Phase VI, Gamaria, Jharkhand-832108	Sampling Date	: 26.05.2023
		Sample Received Date	: 29.05.2023
		Type of Sample	: Drinking Water
Plant Status	: Operational	Source of Sample	: Tap Water
		Location of Sample	: Near Admin building
		Sample Collected by	: ELES/DOC/SMPL/01
Period of Analysis	: 29.05.2023 to 03.06.2023	Sampling Procedure	: ELES Pvt.Ltd
		Sample Condition	: Sealed & Preserved

Discipline : Biological		Group : Water		Regulatory Limit as per IS:10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
Total Coliform (Qualitative)	Per 100 ml	IS 15185:2016; RA2021	Not Detected	Shall not be Detected	
Escherichia coli (E. Coli) (Qualitative)	Per 100 ml	IS 15185:2016; RA2021	Not Detected		

Rekha Saxena

Authorized Signatory

Rekha Saxena

B. Sc, M. Sc. (Botany)
Director
ELES Pvt. Ltd.

****End of Report****

Authorized Signatory

SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.



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



TC-8839

TEST REPORT

Test Report No.	: ELES/RNC/2023/1881	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023
ULR No.	: TC883923000000858F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -1)	Sample Ref. No.	: ELES/RNC/2023/DW/1652
Address	: Plot No. M-6, Phase VI, Gamaria, Jharkhand-832108	Sampling Date	: 26.05.2023
		Sample Received Date	: 29.05.2023
Plant Status	: Operational	Type of Sample	: Drinking Water
		Source of Sample	: Tap Water
Period of Analysis	: 29.05.2023 to 03.06.2023	Location of Sample	: Near Canteen
		Sample Collected by	: ELES/DOC/SMPL/01
		Sampling Procedure	: ELES Pvt. Ltd
		Sample Condition	: Sealed & Preserved

NABL Accredited				Regulatory Limit	
Discipline : Chemical		Group : Water		as per IS:10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
pH (at 25.7 °C)	--	APHA 23 rd Ed.2017, 4500-H ⁺ -B	6.59	6.5-8.5	No Relaxation
Turbidity	NTU	APHA 23 rd Ed.2017, 2130 B	0.07	1.0	5.0
Total Dissolved Solids (TDS)	mg/L	APHA 23 rd Ed.2017, 2540B,C&D	208	500	2000
Total Alkalinity (as CaCO ₃)	mg/L	APHA 23 rd Ed.2017, 2320 B	16.8	200	600
Total Hardness (as CaCO ₃)	mg/L	APHA 23 rd Ed.2017, 2340 C	50.6	200	600
Chloride (as Cl)	mg/L	APHA 23 rd Ed.2017, 4500 Cl- B	38.2	250	1000
Sulphate (as SO ₄)	mg/L	APHA 23 rd Ed.2017, 4500-SO ₄ ²⁻ E	4.84	200	400
Calcium (as Ca)	mg/L	APHA 23 rd Ed.2017, 3500 Ca- B	13.5	75	200
Discipline : Chemical		Group : Residues in Water			
Iron (as Fe)	mg/L	APHA 23 rd Ed 2017; 3111B, & 3500 Fe B	0.133	1.0	No Relaxation
Magnesium (as Mg)	mg/L	IS 3025 (Part-46) :1994; RA2019	4.8	30	100

Remarks: pH done at Lab.

Rekha Saxena
Authorized Signatory
Rekha Saxena

B. Sc, M. Sc. (Botany)

Director

****End of Report****

Page 1 of 1

Sandip Bera
Authorized Signatory

SANDIP BERA
SENIOR MANAGER

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

Email: info@elespl.co.in, eles.ranchi@gmail.com

Phone no.: 0651-2290103

Website: www.elespl.co.in

CIN: U74999JH2018PTC011125

TEST REPORT

Test Report No.	: ELES/RNC/2023/1881	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant -1)	Sample Ref. No.	: ELES/RNC/2023/DW/1652
Address	: Plot No. M-6, Phase VI, Gamaria, Jharkhand-832108	Sampling Date	: 26.05.2023
		Sample Received Date	: 29.05.2023
Plant Status	: Operational	Type of Sample	: Drinking Water
		Source of Sample	: Tap Water
Period of Analysis	: 29.05.2023 to 03.06.2023	Location of Sample	: Near Canteen
		Sample Collected by	: ELES/DOC/SMPL/01
		Sampling Procedure	: ELES Pvt. Ltd
		Sample Condition	: Sealed & Preserved

Discipline : Biological		Group : Water		Regulatory Limit as per IS:10590:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
Total Coliform (Qualitative)	Per 100 ml	IS 15185:2016; RA2021	Not Detected	Shall not be Detected	
Escherichia coli (E. Coli) (Qualitative)	Per 100 ml	IS 15185:2016; RA2021	Not Detected		

Rakha Saxena

Authorized Signatory

Rakha Saxena

B. Sc, M. Sc. (Botany)

Director

ELES Pvt. Ltd.

****End of Report****

Sandip Bera

Authorized Signatory

SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.

Analytical Test Report

Test Report (QMS – 9001:2015)			Issue date	11.05.2023	
Disipline	Chemical	Group	Atmospheric Pollution	Sub Group	Ambient Air
Issue to	M/s - RAMKRISHNA FORGINGS LIMITED, PLANT - I. Plot No. - M5, M6, Phase - VI, Adityapur Industrial Area, Gamharia, Dist. Seraikella-Kharswan, Jharkhand		Unique Lab Report	N/A	
			Contact Person	Mr. Pankaj Kumar	
			Contact Number	8709845624	
			Email Id	safety.plant1@ramkrishnaforgings.com	
Application No.	16009969		Order Date	04.04.2023	

QMS References (Steps of Traceability Chain)

Customer Registration No.	EPIC/Lab/0047	Sampling Voucher Number	EPIC/Lab/0047/01
Lab Assignment Number	EPIC/Lab/L/0047/01/01	Sample's Lab Code	EPIC/Lab/L/0047/01/01/AP01

Sampling Reference EPIC/Lab/F/0047 **Industry Type** Forged items (Automobiles parts manufacturing)

Sampling Start (D/T) 03.05.2023 / 12:50 **Sampling End (D/T)** 04.05.2023 / 10:00

Sampling Status Conducted ✓ **Received** ✗ **Sample collected by** Lab's representative

Sampling method used IS 5182 and CPCB Air Manual Volume – 1 (NAAQM/36/2012-13)

Weather condition Clear **Temperature (°C)** 29 **Humidity %** 51 **Wind direction** 270° - 90°

S. Location A Near Visitor gate **GPS coordinate** 22°48' 08.48" / 86°07' 09.73"

S. Location B Near Main Gate **GPS coordinate** 22°48' 12.01" / 86°07' 13.32"

S. Location C Near Die Shop **GPS coordinate** 22°48' 14.03" / 86°07' 10.78"

Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed Date & time

Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5 % in all testing area as per IS 196:1966

Test start date 04.05.2023/ 16:10 **Test completion date** 10.05.2023/15:40

Sl	Test Parameters	Method used	Unit	Results			Limits	MU%	DR
				A	B	C			
1.	Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006	µg/m ³	87.9	90.3	81.2	100	± 2.6	✓
2.	Particulate matter (PM _{2.5})	IS:5182(P-24) 2019	µg/m ³	42.6	48.8	41.4	60	± 7.8	✓
3.	Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2012	µg/m ³	20.2	23.1	22.4	80	± 4.2	✓
4.	Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2012	µg/m ³	38.6	41.4	37.9	80	± 6.3	✓
AQI				●	●	●	Satisfactory		

—Test result End—

Health Consequence Minor breathing discomfort to sensitive people

Statement of conformity Results comply with prescribed limit of EPA 1986

(Decision rule employed, taking into account the level of risk as per statistical assumptions)

Opinions and interpretations Plant was operational during sampling

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QC checks Calibration of Equipment checked ✓ Reference Material checked ✓ Laboratory Technical record checked ✓

Verified by
Technical Head



Issue by
Laboratory Head

Analytical Test Report

Test Report (QMS – 9001:2015)				Issue date	11.05.2023
Discipline	Chemical	Group	Atmospheric Pollution	Sub Group	Ambient Noise
Issue to	M/s - RAMKRISHNA FORGINGS LIMITED, PLANT - I. Plot No. - M5, M6, Phase - VI, Adityapur Industrial Area, Gamharla, Dist. Seraikella-Kharswan, Jharkhand			Unique Lab Report	N/A
				Contact Person	Mr. Pankaj Kumar
				Contact Number	8709845624
				Email Id	safety.plant1@ramkrishnaforgings.com
Application No.	16009969			Order Date	04.04.2023
QMS References (Steps of Traceability Chain)					
Customer Registration No.	EPIC/Lab/0047			Sampling Voucher Number	EPIC/Lab/0047/01
Lab Assignment Number	EPIC/Lab/L/0047/01/02			Sample's Lab Code	EPIC/Lab/L/0047/01/02/AP02
Sampling Reference	EPIC/Lab/F/0047			Industry Type	Forged items (Automobiles parts manufacturing)
Sampling Start (D/T)	03.05.2023 / 12:50			Sampling End (D/T)	04.05.2023 / 10:00
Sampling Status	Conducted	✓	Received	✗	Sample collected by
	Lab's representative				
Sampling method used	IS 9876:1981 (RA 2007) & CPCB Method S.O.50 (E) dated 11/01/2010				
Weather condition	Temperature (°C)	29	Humidity %	51	Wind direction
					270° - 90°
S. Location A	Near Visitor gate			GPS coordinate	22°48' 08.48" / 86°07' 09.73"
S. Location B	Near Main Gate			GPS coordinate	22°48' 12.01" / 86°07' 13.32"
S. Location C	Near Die Shop			GPS coordinate	22°48' 14.03" / 86°07' 10.78"

Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed Date & time

Laboratory is maintaining, Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966

Test start date	04.05.2023/ 16:10	Test completion date	10.05.2023/15:40
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Sl	Test Parameters	Method used	Unit	Results			Limits	MU%	DR
				A	B	C			
1.	Leq (Day time)	IS: 9989:1981	dB (A)	72.6	71.0	72.7	75	± 1.0	✓
2.	Leq (Night time)	IS: 9989:1981	dB (A)	69.9	67.0	65.9	70	± 1.0	✓
3.	Level Max (L max)	IS: 9989:1981	dB (A)	81.4	81.6	81.4	-	-	
4.	Level Min (L min)	IS: 9989:1981	dB (A)	53.1	51.9	57.6	-	-	

- Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
- Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority.
- dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale(A) which is relatable to human hearing.

Area	Day Time		Night time
	A	B	
Industrial Area	75.0	70.0	
Commercial Area	65.0	55.0	
Residential Area	55.0	45.0	
Silence Zone	50.0	40.0	

Health Consequence Annoying sound

Statement of conformity Results comply with E(P)A Rules, 1986 limit.

(Decision rule employed, taking into account the level of risk as per statistical assumptions)

Opinions and interpretations Unit was operational during sampling.

- Contractual
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- Notes

QC checks Calibration of Equipment checked ✓ Reference Material checked ✓ Laboratory Technical record checked ✓

Verified by
Section Head



Issue by
Laboratory Head

Analytical Test Report

Test Report (QMS – 9001:2015)				Issue date	11.05.2023	
Disipline	Chemical	Group	Atmospheric Pollution	Sub Group	Stationary Source Emission	
Issue to	M/s - RAMKRISHNA FORGINGS LIMITED, PLANT - I. Plot No. - M5, M6, Phase - VI, Adityapur Industrial Area, Gamharia, Dist. Seraikella- Kharswan, Jharkhand			Unique Lab Report	N/A	
				Contact Person	Mr. Pankaj Kumar	
				Contact Number	8709845624	
				Email Id	safety.plant1@ramkrishnaforgings.com	
Application No.	16009969			Order Date	04.04.2023	
QMS References (Steps of Traceability Chain)						
Customer Registration No.	EPIC/Lab/0047			Sampling Voucher Number	EPIC/Lab/0047/01	
Lab Assignment Number	EPIC/Lab/0047/01/03			Sample's Lab Code	EPIC/Lab/0047/01/03/AP01	
Sampling Reference	EPIC/Lab/F/0047		Industry Type	Forged items (Automobiles parts manufacturing)		
Sampling Start (D/T)	03.05.2023 / 14:00			Sampling End (D/T)	03.05.2023 / 14:40	
Sampling Status	Conducted	✓	Received	✗	Sample collected by	Lab's Reprasatative
Sampling method used	IS: 11255 & CPCB Guideline (Lats/80/2013-14)					
Weather condition	Temperature (°C)	26	Humidity %	62	Wind direction	270 ^o - 90 ^o
GPS coordinate	22 ^o 48' 09.92", 86 ^o 07' 09.70"		Elevation in meter	190		

Field Observations

Observed during sampling by field executive			Details provided by customer		
Location	Porthole		Type of fuel Used	Furnace oil	
Platform	Permanent		Quantity of Fuel Used	160 lit/ day	
Stack Description (Shape & Material)	Metal/ circular		Total production Capacity	N/A	
Sampling port hole	Available		Height of Stack from ground level	20 mtr.	
Stack Identification	Stack of Unit II		Inner Diameter of Stack	0.3 mtr.	
Height of port hole from Ground level	6 mtr.		Pollution Controlling Device (if any)	Not installed	
Emission Source	Reheating furnace		ID fan capacity of PCD	N/A	

Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed date & time
Laboratory is maintaining, Temperature $27 \pm 2^{\circ}\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966

Test start date	04.05.2023/ 16:10	Test completion date	10.05.2023/15:40
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****Test Results****

Sl	Parameters	Test Method	Units	Results	Limits	MU %	DR
1.	Stack gas Temperature	IS 11255 (Part 3)2008	k	397	-		
2.	Stack gas Velocity	IS 11255 (Part 3)2008	m/s	7.33	-		
3.	Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm ³ /hr	1366.7	-		
4.	Particulate Matter (PM)	IS 11255 (Part 1)2009	mg/Nm ³	61.8	150	±4.4	✓
5.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	mg/Nm ³	16.5	-		
6.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	mg/Nm ³	100.0	-		

****Test result End ****

Statement of conformity Results comply with prescribed limit of EPA 1986

(Decision rule employed, taking into account the level of risk as per statistical assumptions)

Opinions and interpretations Plant was operational during sampling

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QC checks	Calibration of Equipment checked	✓	Reference Material checked	✓	Laboratory Technical record checked	✓
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Verified by
Technical Head



Issue by 11/05/23
Laboratory Head

Analytical Test Report

Test Report (QMS – 9001:2015)				Issue date	11.05.2023	
Disipline	Chemical	Group	Atmospheric Pollution	Sub Group	Stationary Source Emission	
Issue to	M/s - RAMKRISHNA FORGINGS LIMITED, PLANT - I. Plot No. - M5, M6, Phase - VI, Adityapur Industrial Area, Gamharia, Dist. Seraikella- Kharswan, Jharkhand			Unique Lab Report	N/A	
				Contact Person	Mr. Pankaj Kumar	
				Contact Number	8709845624	
				Email Id	safety.plant1@ramkrishnaforgings.com	
Application No.	16009969			Order Date	04.04.2023	
QMS References (Steps of Traceability Chain)						
Customer Registration No.	EPIC/Lab/0047			Sampling Vaucher Number	EPIC/Lab/0047/01	
Lab Assignment Number	EPIC/Lab/0047/01/03			Sample's Lab Code	EPIC/Lab/0047/01/03/AP02	
Sampling Reference	EPIC/Lab/F/0047			Industry Type	Forged items (Automobiles parts manufacturing)	
Sampling Start (D/T)	03.05.2023 / 15:10			Sampling End (D/T)	03.05.2023 / 15:50	
Sampling Status	Conducted	✓	Received	✗	Sample collected by	Lab's Reprasatative
Sampling method used	IS: 11255 & CPCB Guideline (Lats/80/2013-14)					
Weather condition	Temperature (°C)	27	Humidity %	62	Wind direction	270° - 90°
GPS coordinate	22° 48' 10.51", 86° 07' 07.89"		Elevation in meter	190		

Field Observations

Observed during sampling by field executive			Details provided by customer		
Location	Porthole		Type of fuel Used	Furnace oil	
Platform	Permanent		Quantity of Fuel Used	160 lit/day	
Stack Description (Shape & Material)	Metal/ circular		Total production Capacity	4.5 MT/day	
Sampling port hole	Available		Height of Stack from ground level	20 mtr.	
Stack identification	Stack of Unit IX		Inner Diameter of Stack	0.3 mtr.	
Height of port hole from Ground level	7 mtr.		Pollution Controlling Device (if any)	Not installed	
Emission Source	Reheating furnace		ID fan capacity of PCD	N/A	

Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed date & time
Laboratory is maintaining, Temperature 27 ± 2°C and Relative Humidity 65 ± 5 % in all testing area as per IS 196:1966

Test start date	04.05.2023/ 16:10	Test completion date	10.05.2023/15:40
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****Test Results****

Sl	Parameters	Test Method	Units	Results	Limits	MU %	DR
1.	Stack gas Temperature	IS 11255 (Part 3)2008	k	399	-		
2.	Stack gas Velocity	IS 11255 (Part 3)2008	m/s	7.56	-		
3.	Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm³/hr	1402.6	-		
4.	Particulate Matter (PM)	IS 11255 (Part 1)2009	mg/Nm³	66.14	150	±4.4	✓
5.	Sulphure Dioxide (SO₂)	IS 11255 (Part 2)2009	mg/Nm³	24.8	-		
6.	Oxide of Nitrogen (as NOₓ)	IS 11255 (Part 7)2005 RA 2012	mg/Nm³	110.0	-		

****Test result End ****

Statement of conformity Results comply with prescribed limit of EPA 1986

(Decision rule employed, taking into account the level of risk as per statistical assumptions)

Opinions and interpretations Plant was operational during sampling

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QC checks	Calibration of Equipment checked	✓	Reference Material checked	✓	Laboratory Technical records checked	✓
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Verified by
Technical Head



Issued by
11/5/23
Laboratory Head

Analytical Test Report

Test Report (QMS – 9001:2015)			Issue date	11.05.2023
Disipline	Chemical Group	Atmospheric Pollution	Sub Group	Stationary Source Emission
Issue to	M/s - RAMKRISHNA FORGINGS LIMITED, PLANT - I. Plot No. - M5, M6, Phase - VI, Adityapur Industrial Area, Gamharia, Dist. Seraikella- Kharswan, Jharkhand		Unique Lab Report	N/A
			Contact Person	Mr. Pankaj Kumar
			Contact Number	8709845624
			Email Id	safety.plant1@ramkrishnaforgings.com
Application No.	16009969		Order Date	04.04.2023
QMS References (Steps of Traceability Chain)				
Customer Registration No.	EPIC/Lab/0047	Sampling Voucher Number	EPIC/Lab/0047/01	
Lab Assignment Number	EPIC/Lab/0047/01/03	Sample's Lab Code	EPIC/Lab/0047/01/03/AP03	
Sampling Reference	EPIC/Lab/F/0047	Industry Type	Forged items (Automobiles parts manufacturing)	
Sampling Start (D/T)	04.05.2023 / 08:30	Sampling End (D/T)	04.05.2023 / 09:10	
Sampling Status	Conducted ✓	Received ✗	Sample collected by	Lab's Represatative
Sampling method used	IS: 11255 & CPCB Guideline (Lats/80/2013-14)			
Weather condition	Temperature (°C)	24	Humidity %	58
GPS coordinate	22° 48' 12.28", 86° 07' 10.11"	Elevation in meter	190	Wind direction 270° - 90°

Field Observations

Observed during sampling by field executive

Location	Porthole
Platform	Permanent
Stack Description (Shape & Material)	Metal/ clrcular
Sampling port hole	Available
Stack Identification	ISO Annealing stack
Height of port hole from Ground level	13 mtr.
Emission Source	Reheating furnace

Details provided by customer

Type of fuel Used	Furnace oil
Quantity of Fuel Used	150 lit./ day
Total production Capacity	650 kg/hr
Height of Stack from ground level	16 mtr.
Inner Diameter of Stack	0.25 mtr.
Pollution Controlling Device (if any)	Not installed
ID fan capacity of PCD	N/A

Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed date & time
Laboratory is maintaining, Temperature $27 \pm 2^{\circ}\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966

Test start date	04.05.2023/ 16:10	Test completion date	10.05.2023/15:40
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****Test Results****

Sl	Parameters	Test Method	Units	Results	Limits	MU %	DR
1.	Stack gas Temperature	IS 11255 (Part 3)2008	k	392	-		
2.	Stack gas Velocity	IS 11255 (Part 3)2008	m/s	8.64	-		
3.	Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm ³ /hr	1127.8	-		
4.	Particulate Matter (PM)	IS 11255 (Part 1)2009	mg/Nm ³	58.1	150	±4.4	✓
5.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	mg/Nm ³	27.5	-		
6.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	mg/Nm ³	105.0	-		

****Test result End ****

Statement of conformity Results comply with prescribed limit of EPA 1986

(Decision rule employed, taking into account the level of risk as per statistical assumptions)

Opinions and interpretations Plant was operational during sampling

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QC checks	Calibration of Equipment checked ✓	Reference Material checked ✓	Laboratory Technical record checked ✓
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Verified by
Technical Head



Made by 11/5/23
Laboratory Head

Analytical Test Report

Test Report (QMS – 9001:2015)				Issue date	11.05.2023	
Disipline	Chemical	Group	Atmospheric Pollution	Sub Group	Stationary Source Emission	
Issue to	M/s - RAMKRISHNA FORGINGS LIMITED, PLANT - I. Plot No. - M5, M6, Phase - VI, Adityapur Industrial Area, Gamharia, Dist. Seraikella- Kharswan, Jharkhand			Unique Lab Report	N/A	
				Contact Person	Mr. Pankaj Kumar	
				Contact Number	8709845624	
				Email Id	safety.plant1@ramkrishnaforgings.com	
Application No.	16009969			Order Date	04.04.2023	
QMS References (Steps of Traceability Chain)						
Customer Registration No.	EPIC/Lab/0047			Sampling Voucher Number	EPIC/Lab/0047/01	
Lab Assignment Number	EPIC/Lab/0047/01/03			Sample's Lab Code	EPIC/Lab/0047/01/03/AP04	
Sampling Reference	EPIC/Lab/F/0047			Industry Type	Forged items (Automobiles parts manufacturing)	
Sampling Start (D/T)	04.05.2023 / 09:30			Sampling End (D/T)	04.05.2023 / 10:20	
Sampling Status	Conducted	✓	Received	✗	Sample collected by	Lab's Reprasatative
Sampling method used	IS: 11255 & CPCB Guideline (Lats/80/2013-14)					
Weather condition	Temperature (°C)	24	Humidity %	58	Wind direction	270° - 90°
GPS coordinate	22° 48' 10.04", 86° 07' 09.84"			Elevation in meter	190	

Field Observations

Observed during sampling by field executive			Details provided by customer		
Location	Porthole		Type of fuel Used	Furnace oil	
Platform	Permanent		Quantity of Fuel Used	160 lit./ day	
Stack Description (Shape & Material)	Metal/ circular		Total production Capacity	4.5 MT/day	
Sampling port hole	Available		Height of Stack from ground level	20 mtr.	
Stack Identification	Stack of Unit-VI		Inner Diameter of Stack	0.3 mtr.	
Height of port hole from Ground level	7 mtr.		Pollution Controlling Device (if any)	Not installed	
Emission Source	Reheating furnace		ID fan capacity of PCD	N/A	

Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed date & time
Laboratory is maintaining, Temperature $27 \pm 2^\circ\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966

Test start date	04.05.2023/ 16:10	Test completion date	10.05.2023/15:40
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****Test Results****

Sl	Parameters	Test Method	Units	Results	Limits	MU %	DR
1.	Stack gas Temperature	IS 11255 (Part 3)2008	k	408	-		
2.	Stack gas Velocity	IS 11255 (Part 3)2008	m/s	7.19	-		
3.	Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm ³ /hr	1304.4	-		
4.	Particulate Matter (PM)	IS 11255 (Part 1)2009	mg/Nm ³	63.8	150	±4.4	✓
5.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	mg/Nm ³	33.0	-		
6.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	mg/Nm ³	140.1	-		

****Test result End ****

Statement of conformity Results comply with prescribed limit of EPA 1986

(Decision rule employed, taking into account the level of risk as per statistical assumptions)

Opinions and interpretations Plant was operational during sampling

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QC checks	Calibration of Equipment checked	✓	Reference Material checked	✓	Laboratory Technical report checked	✓
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Verified by
Technical Head



Issue by
Laboratory Head

Analytical Test Report

Test Report (QMS – 9001:2015)				Issue date	11.05.2023
Disipline	Chemical	Group	Atmospheric Pollution	Sub Group	Stationary Source Emission
Issue to	M/s - RAMKRISHNA FORGINGS LIMITED, PLANT - I. Plot No. - M5, M6, Phase - VI, Adityapur Industrial Area, Gamharia, Dist. Seraikella- Kharswan, Jharkhand			Unique Lab Report	N/A
				Contact Person	Mr. Pankaj Kumar
				Contact Number	8709845624
				Email Id	safety.plant1@ramkrishnaforgings.com
Application No.	16009969			Order Date	04.04.2023
QMS References (Steps of Traceability Chain)					
Customer Registration No.	EPIC/Lab/0047			Sampling Voucher Number	EPIC/Lab/0047/01
Lab Assignment Number	EPIC/Lab/0047/01/03			Sample's Lab Code	EPIC/Lab/0047/01/03/AP05
Sampling Reference	EPIC/Lab/F/0047		Industry Type	Forged items (Automobiles parts manufacturing)	
Sampling Start (D/T)	04.05.2023 / 10:50			Sampling End (D/T)	04.05.2023 / 11:40
Sampling Status	Conducted	✓	Received	✗	Sample collected by
Sampling method used	IS: 11255 & CPCB Guideline (Lats/80/2013-14)				
Weather condition	Temperature (°C)	25	Humidity %	60	Wind direction
GPS coordinate	22° 48' 12.28", 86° 07' 10.53"			Elevation in meter	190
					270° - 90°

Field Observations

Observed during sampling by field executive		Details provided by customer	
Location	Porthole	Type of fuel Used	Furnace oil
Platform	Permanent	Quantity of Fuel Used	50 lit/ day
Stack Description (Shape & Material)	Metal/ circular	Total production Capacity	700 kg/hr
Sampling port hole	Available	Height of Stack from ground level	10 mtr.
Stack Identification	ISO Stack	Inner Diameter of Stack	0.2 mtr.
Height of port hole from Ground level	8 mtr.	Pollution Controlling Device (if any)	Not installed
Emission Source	Reheating furnace	ID fan capacity of PCD	N/A

Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed date & time
Laboratory is maintaining, Temperature $27 \pm 2^{\circ}\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966

Test start date	04.05.2023/ 16:10	Test completion date	10.05.2023/15:40
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****Test Results****

Sl	Parameters	Test Method	Units	Results	Limits	MU %	DR
1.	Stack gas Temperature	IS 11255 (Part 3)2008	k	412	-		
2.	Stack gas Velocity	IS 11255 (Part 3)2008	m/s	9.24	-		
3.	Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm ³ /hr	737.8	-		
4.	Particulate Matter (PM)	IS 11255 (Part 1)2009	mg/Nm ³	67.11	150	±4.4	✓
5.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	mg/Nm ³	18.3	-		
6.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	mg/Nm ³	95.0	-		

****Test result End ****

Statement of conformity Results comply with prescribed limit of EPA 1986

(Decision rule employed, taking into account the level of risk as per statistical assumptions)

Opinions and interpretations Plant was operational during sampling

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QC checks	Calibration of Equipment checked	✓	Reference Material checked	✓	Laboratory Technical report checked	✓
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Verified by
Technical Head



Issue by 11/5/23
Laboratory Head

Analytical Test Report

Test Report (QMS – 9001:2015)				Issue date	11.05.2023
Disipline	Chemical	Group	Atmospheric Pollution	Sub Group	DG Stack Emission
Issue to	M/s - RAMKRISHNA FORGINGS LIMITED, PLANT - I. Plot No. - M5, M6, Phase - VI, Adityapur Industrial Area, Gamharia, Dist. Seraikella- Kharswan, Jharkhand			Unique Lab Report	N/A
				Contact Person	Mr. Pankaj Kumar
				Contact Number	8709845624
				Email Id	safety.plant1@ramkrishnaforgings.com
Application No.	16009969			Order Date	04.04.2023
QMS References (Steps of Traceability Chain)					
Customer Registration No.	EPIC/Lab/0047		Sampling Vaucher Number	EPIC/Lab/0047/01	
Lab Assignment Number	EPIC/Lab/0047/01/03		Sample's Lab Code	EPIC/Lab/0047/01/03/AP06	
Sampling Reference	EPIC/Lab/F/0047		Industry Type	Forged items (Automobiles parts manufacturing)	
Sampling Start (D/T)	03.05.2023 / 16:15		Sampling End (D/T)	03.05.2023 / 17:00	
Sampling Status	Conducted	✓	Received	✗	Sample collected by
	Lab's Reprasatative				
Sampling method used	IS: 11255 & CPCB Guideline (Lats/80/2013-14)				
Weather condition	Temperature (°C)	25	Humidity %	60	Wind direction
GPS coordinate	22 nd 48' 13.26",	86 th 07' 12.35"	Elevation in meter	190	270 th - 90 th

Field Observations

Observed during sampling by field executive

Location	Porthole
Platform	Permanent
Stack Description (Shape & Material)	Metal/ circular
Sampling port hole	Available
Stack Identification	DG 1010 KVA
Height of port hole from Ground level	7 mtr.
Emission Source	Diesel engine

Details provided by customer

Type of fuel Used	Diesel
Quantity of Fuel Used	80 - 100 lit/ hr
Total production Capacity	1010 KVA
Height of Stack from ground level	8 mtr.
Inner Diameter of Stack	0.23 mtr.
Pollution Controlling Device (if any)	Not applicable
ID fan capacity of PCD	N/A

Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed date & time
Laboratory is maintaining, Temperature $27 \pm 2^{\circ}\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966

Test start date	04.05.2023/ 16:10	Test completion date	10.05.2023/15:40
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****Test Results****

Sl	Parameters	Test Method	Units	Results	Limits	MU %	DR
1.	Stack gas Temperature	IS 11255 (Part 3)2008	k	371	-	-	-
2.	Stack gas Velocity	IS 11255 (Part 3)2008	m/s	11.72	-	-	-
3.	Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm ³ /hr	1374.5	-	-	-
4.	Particulate Matter (PM)	IS 11255 (Part 1)2009	mg/Nm ³	59.77	-	-	-
5.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009	mg/Nm ³	36.7	-	-	-
6.	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	mg/Nm ³	220.1	-	-	-

****Test result End ****

Statement of conformity Not Applicable

(Decision rule employed, taking into account the level of risk as per statistical assumptions)

Opinions and interpretations Plant was operational during sampling

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QC checks	Calibration of Equipment checked ✓	Reference Material checked ✓	Laboratory Technical report checked ✓
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Analytical Test Report

Test Report (QMS – 9001:2015)				Issue date	11.05.2023
Disipline	Chemical	Group	Pollution & Environment	Sub Group	Waste Water (Effluents/Sewage)
Issue to	M/s - RAMKRISHNA FORGINGS LIMITED, PLANT - I, Plot No. - M5, M6, Phase - VI, Adityapur Industrial Area, Gamharia, Dist. Seraikella-Kharswan, Jharkhand			Unique Lab Report	N/A
				Contact Person	Mr. Pankaj Kumar
				Contact Number	8709845624
				Email Id	safety.plant1@ramkrishnaforgings.com
Application No.	16009969			Order Date	04.04.2023

QMS References (Steps of Traceability Chain)

Customer Registration No.	EPIC/Lab/0047	Sampling Vaucher Number	EPIC/Lab/0047/01
Lab Assignment Number	EPIC/Lab/L/0047/01/04	Sample's Lab Code	EPIC/Lab/L/0047/01/04/PE01
Sampling Reference	EPIC/Lab/F/0047	Industry Type	Forged items (Automobiles parts manufacturing)
Sampling Start (D/T)	03.05.2023 / 12:50	Sampling End (D/T)	04.05.2023 / 10:00
Sampling Status	Conducted ☒ Received ☒	Sample collected by	Lab's representative

Sampling method used	IS : 3025 (Part-1) 1987, R-2003	Sample Type	Effluent water
Weather condition	Clear	Temperature (°C)	29
		Humidity %	51
S. Location A	Plant outlet	GPS coordinate	22°48' 14.53" / 86°07' 10.55"

Test performed at laboratory's permanent facility and results relate only to the sample tested in prescribed date & time
Laboratory is maintaining, Temperature $27 \pm 2^{\circ}\text{C}$ and Relative Humidity $65 \pm 5\%$ in all testing area as per IS 196:1966

Test start date		04.05.2023 / 10:15		Test completion date		10.05.2023 / 12:45	
Sl	Test Parameters	Method used	Unit	Results	Limits	MU%	DR
1.	pH value	IS 3025 (P-11):2002	pH	7.22	5.5 – 9.0	± 2.5	✓
2.	Temperature	IS 3025 (P-09)	°C	28	-	± 0.5	
3.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	1534	-	± 1.5	
4.	Nitrate (as NO ₃)	APHA 4500 NO3 B: 2017	mg/l	0.24	-	± 4.5	
5.	Total Suspended Solids	IS 3025 (P-17):2012	mg/l	16.0	100	± 8.3	✓
6.	BOD (3 days at 27 °C)	IS 3025 (P-44):2009	mg/l	8.0	30	± 6.7	✓
7.	COD (Open reflux)	IS 3025 (P-58):2006	mg/l	60.0	250	± 4.0	✓
8.	Oil & Grease	IS 3025 (P-39):2003	mg/l	9.4	10	± 14.6	✓
9.	Sulphate (as SO ₄)	IS 3025 (P-24):2003	mg/l	95.3	-	± 6.9	
10.	Chloride (as Cl ⁻)	IS 3025 (P-32):2003	mg/l	65.5	-	± 3.4	

—Test result End—

Health Consequence	Not Applicable
Statement of conformity	Results comply with E(P)A Rules, 1986 limit. (Decision rule employed, taking into account the level of risk as per statistical assumptions)
Opinions and interpretations	Unit was operational during sampling.

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QC checks	Calibration of Equipment checked ☒	Reference Material checked ☒	Laboratory Technical record checked ☒
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Verified by
Technical Head




Issue by
Laboratory Head



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



TC-8439

TEST REPORT

Test Report No.	: ELES/RNC/2023/1873	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023
ULR No.	: TC883923000000853F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant-1)	Sample Ref. No.	: ELES/RNC/2023/PA/1641
Address	: Plot No.- M-6, Phase VI, Gamaria, Jharkhand- 832108.	Location	: F/S Section-I
Plant Status	: Operational	Sampling Date	: 18.05.2023
Period of Analysis	: 29.05.2023 to 03.06.2023	Sample Received Date	: 29.05.2023
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	: 36	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 53	4	Weather Condition	: Clear

NABL Accredited

Discipline : Chemical

Group : Atmospheric Pollution

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	IS 5182 (Part-23): 2006; RA2017	294
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	IS 5182 (Part-24): 2019	167
Sulphur Di- Oxide (SO_2)	$\mu\text{g}/\text{m}^3$	IS:5182 (Part-2): 2001; RA2022	18.3
Nitrogen Di- Oxide (NO_2)	$\mu\text{g}/\text{m}^3$	IS:5182 (Part-6): 2006; RA2022	29.8

Rekha Saxena

Authorized Signatory

Rekha Saxena

B. Sc, M. Sc. (Botany)

Director

ELES Pvt. Ltd.

****End of Report****

Authorized Signatory

SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.

Page 1 of 1

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"Save Environment, Save Future"



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HATIA, RANCHI-834003 (JHARKHAND)
GST NO:- 20AAECE9713D124

ENGINEERING SERVICES PVT. LTD.

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Phone no.: 0651-2290103
Website: www.elespl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2023/1874	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023
ULR No.	: TC883923000000854F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant-1)	Sample Ref. No.	: ELES/RNC/2023/FA/1642
Address	: Plot No.- M-6, Phase VI, Gamaria, Jharkhand- 832108.	Location	: F/S Section-II
Plant Status	: Operational	Sampling Date	: 18.05.2023
Period of Analysis	: 29.05.2023 to 03.06.2023	Sample Received Date	: 29.05.2023
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	: 36	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 53	4	Weather Condition	: Clear

NABL Accredited

Discipline : Chemical

Group : Atmospheric Pollution

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part-23): 2006; RA2017	315
Particulate Matter (PM2.5)	µg/m ³	IS 5182 (Part-24): 2019	170
Sulphur Di- Oxide (SO ₂)	µg/m ³	IS:5182 (Part-2): 2001; RA2022	18.7
Nitrogen Di- Oxide (NO ₂)	µg/m ³	IS:5182 (Part-6): 2006; RA2022	34.1

Rakha Saxena
Authorized Signatory

Rakha Saxena
B. Sc, M. Sc. (Botany)
Director
ELES Pvt. Ltd.

****End of Report****

Sandip Bera
Authorized Signatory

SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.

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ENVIRONMENTAL LABORATORIES &

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

ENGINEERING SERVICES PVT. LTD.

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TEST REPORT

Test Report No.	: ELES/RNC/2023/1875	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023
ULR No.	: TC883923000000855F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant-I)	Sample Ref. No.	: ELES/RNC/2023/FA/1643
Address	: Plot No.- M-6, Phase VI, Gamaria, Jharkhand- 832108.	Location	: F/S Section-III
Plant Status	: Operational	Sampling Date	: 18.05.2023
Period of Analysis	: 29.05.2023 to 03.06.2023	Sample Received Date	: 29.05.2023
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	: 37	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 53	4	Weather Condition	: Clear

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Discipline : Chemical

Group : Atmospheric Pollution

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part-23): 2006; RA2017	249
Particulate Matter (PM2.5)	µg/m ³	IS 5182 (Part-24): 2019	143
Sulphur Di- Oxide (SO ₂)	µg/m ³	IS:5182 (Part-2): 2001; RA2022	16.7
Nitrogen Di- Oxide (NO ₂)	µg/m ³	IS:5182 (Part-6): 2006; RA2022	30.4

Rakha Saxena
Authorized Signatory
Rakha Saxena
B. Sc, M. Sc. (Botany)
Director
ELES Pvt. Ltd.

****End of Report****

Sandip Bera
Authorized Signatory
SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.

Page 1 of 1

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TC-8839

TEST REPORT

Test Report No.	: ELES/RNC/2023/1876	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023
ULR No.	: TC883923000000856F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant-I)	Sample Ref. No.	: ELES/RNC/2023/FA/1644
Address	: Plot No.- M-6, Phase VI, Gamaria, Jharkhand- 832108.	Location	: Heat Treatment
Plant Status	: Operational	Sampling Date	: 18.05.2023
Period of Analysis	: 29.05.2023 to 03.06.2023	Sample Received Date	: 29.05.2023
		Type of Sample	: Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	: 30	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 49	4	Weather Condition	: Clear

NABL Accredited

Discipline : Chemical

Group : Atmospheric Pollution

Parameter	Unit	Test Protocol	Result
Particulate Matter (PM10)	$\mu\text{g}/\text{m}^3$	IS 5182 (Part-23): 2006; RA2017	313
Particulate Matter (PM2.5)	$\mu\text{g}/\text{m}^3$	IS 5182 (Part-24): 2019	168
Sulphur Di- Oxide (SO_2)	$\mu\text{g}/\text{m}^3$	IS:5182 (Part-2): 2001; RA2022	21.3
Nitrogen Di- Oxide (NO_2)	$\mu\text{g}/\text{m}^3$	IS:5182 (Part-6): 2006; RA2022	36.5

Rekha Saxena
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Director
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****End of Report****

Sandip Bera
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SANDIP BERA
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TEST REPORT

Test Report No.	: ELES/RNC/2023/1877	Report Release Date	: 03.06.2023
Order No.	: 4000020325	Order Date	: 10.05.2023
ULR No.	: TC883923000000857F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: M/s Ramkrishna Forgings Limited (Plant-1)	Sampling Date	: 17.05.2023
Address	: Plot No.- M-6, Phase VI, Gamaria, Jharkhand- 832108.	Sampling Received Date	: 29.05.2023
Plant Status	: Operational	Type of Sample	: Source Noise (Workzone)
		Sampling procedure	: ELES/DOC/SMPL/03
		Sample Drawn By	: ELES Pvt. Ltd.
		Period of Analysis	: 29.05.2023 to 03.06.2023

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C)	: 36	2	Barometric Pressure (mmHg)	: 745
3	Relative Humidity (%)	: 53	4	Weather Condition	: Clear

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Discipline : Chemical			Group : Atmospheric Pollution				
Location	Unit	Test Protocol	Result				Total Time of Exposure Per Day, in hr.
F/S Section-I	dB(A)	IS 4758:1968; RA2017	Time	L _{max}	L _{min}	L _{eq}	90 dB(A) in 8 hrs.
Sample ID: ELES/RNC/2023/WN/1645			Day Time	90.5	83.1	86	
			Night Time	85.7	81.4	83	
F/S Section-II	dB(A)	IS 4758:1968; RA2017	Time	L _{max}	L _{min}	L _{eq}	
Sample ID: ELES/RNC/2023/WN/1646			Day Time	92.8	82.6	88	
			Night Time	88.7	80.2	85	
F/S Section-III	dB(A)	IS 4758:1968; RA2017	Time	L _{max}	L _{min}	L _{eq}	
Sample ID: ELES/RNC/2023/WN/1647			Day Time	91.8	85.3	89	
			Night Time	89.5	82.1	86	

Page 1 of 2

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TEST REPORT

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Order No.	: 4000020325	Order Date	: 10.05.2023
ULR No.	: TC883923000000857F		

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Discipline : Chemical			Group : Atmospheric Pollution				
Location	Unit	Test Protocol	Result				Total Time of Exposure Per Day, in hr.
Heat Treatment	dB(A)	IS 4758:1968; RA2017	Time	L _{max}	L _{min}	L _{eq}	90 dB(A) in 8 hrs.
			Day Time	89.0	80.4	84	
Sample ID: ELES/RNC/2023/WN/1648			Night Time	85.0	77.5	81	

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