

### Environmental Annual Statement (Form-V) of Ramkrishna Forgings Ltd. Plant- 5

1 message

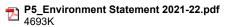
**legal@ramkrishnaforgings.com** <a href="legal@ramkrishnaforgings.com">legal@ramkrishnaforgings.com</a> To: Jamshedpur JSPCB <a href="Jspcb.jsr@gmail.com">JspcB RANCHI <a href="mailto:ranchijspcb@gmail.com">ranchijspcb@gmail.com</a>

21 September 2022 at 11:51

### Respected Sir,

Please find, We are submitting here with the Environmental Annual Statement (Form-V) for the period 2021-22 of our unit Ramkrishna Forgings Ltd. Plant- 5.

Thanks and Regards



# RAMKRISHNA FORGINGS LIMITED, PLANT-5 KOLABIRA, SARAIKELA-KHARSAWAN

### **ENVIRONMENTAL STATEMENT**

FOR YEAR 2021-2022

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

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

### PART - A

 Name and address of the Owner /Occupier of the Industry operation or process

SRI MAHABIR PRASAD JALAN, CHAIRMAN

Ramkrishna Forgings Limited, Plant-V

Vill: Bholadih, PO- Kolebira, Thana-Saraikela

District - Saraikela-Kharsawan

Iharkhand - 833220

2. Industry Category

Primary – (S/C Code) : Large Scale

Secondary – (S/C Code)

3. Production Capacity – Units : Various Forged, Machined and Finished

Components - 130000 TPA

4. Year of establishment

Commercial production : 2014 (Expansion in January 2016 & 2022)

5. Date of last environmental

Statement submitted

22.09.2021

### PART - B

### WATER AND RAW MATERIAL CONSUMPTION

1. Water consumption	m3/d :	245		
Process	:	58		
Cooling	:	107		
Domestic	:	80		
Name of Product	Process wa	ter consumpt	tion per unit o	f the product output
	During the Financial y	-	During the Financial	
Various Forged, Machine & Finished Components	•	Γ	1.40 KL/N	ИΤ
2. Raw Material Consur	nption			
Name of Raw Materials output Name	of product	Consumpt Out put	ion of Raw Ma	nterial Per unit of
		_	e previous year	During the current Financial year
	s Forged, ned & Finished nents	57212 MT		92906 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

Pollu	tion discharged to Enviro	onment/unit of output (Parame	eter as specified in the consent issued)
(1)	pol	-	tions of Percentage of variation cribed standards (mass/volume)
(a) (b)		sh evaluation work has been do orized by JSPCB. Report enclo	one by M/s Gems Project Pvt. Ltd. duly sed
		<u> PART - D</u>	
(ag gr	acified under Uszardou	Hazardous Wastes	ndling Dulog 1000)
_	rdous Wastes	s Wastes/Management and Ha Total Quan	
	<del></del>	During the previous Financial year	During the current Financial year
(a) • • • • (b)	From process Used/Waste Oil Used/Waste Grease Paint Sludge ETP Sludge Oil Soaked Cotton/Han From pollution Contro Facilities		57.330 KL 2.380 MT 59.680 MT 133.040 MT 0.480 MT Nil
		Total Quan	tity (MT)
		During the previous Financial year	During the current Financial year
(a)	From process	15517 MT	23867 MT
(b)	From pollution Contro Facilities	Nil	Nil
(c) (1	.) Quantity recycled or re within the unit	e-utilized Total Quantity so	ld for reutilisation
(2	2) Sold		
(3	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 cement co- processors units 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:

Installation of 150 and 10 KLD ETP and 62 KLD STP for reusing the waste water, RWHS for maintaining the ground water table, underground rain water storage tank, implementation of Stack and Fume extraction system at various points, CAAQMS and SEMS installation, fixed type water sprinkler system installed beside the roads, plantation at various locations within the premises etc.

### PART - H

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

Environment protection has been given full consideration during the designing of the plant.

A concentric tree plantation with a cascading effect is proposed keeping in the view Plant height, leaf spread and characteristics, availability of local species, resistance to pollutant, location of sources, plant layout, meteorological condition, water availability etc.

A three - tier plantation for the boundaries is proposed comprising of an outermost belt of tall trees, which shall act as barrier, middle core acting as air cleaner and the innermost core, which may be termed as absorptive layer consisting of trees, which are known to be tolerant to pollutants.

### 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.

	Tree Plantation at RKFL Plant V								
Sl No.	Name of Tree	15-16	16-17	17-18	18-19	19-20	20-21	21-22	Total
01	Neem Tree	99	110			20	217		446
02	Mehgini Tree	567	550						1117
03	Guava	41		40	40	17		4	142
04	Blackberry	1		35	10			5	51
05	Litchi	0		15	10			2	27
06	Sagwan Tree	145	140				79		364
07	Gul Mohar Tree	313	150			26	47		536
08	Ashok	122	100	15	47	28			312
09	Fycase Tree	0	15						15
10	Aunla Tree	8	9						17
11	Bel	142							142
12	Juhi	84							84
13	Tulsi	303				25			328
14	Bottle Palm	103				26			129
15	FiCosh	30							30
16	Sheesham	9				12	50		71
17	Anar	18						2	20
18	Papaya	1							1
19	Orhul	8				18			26
20	Karanj	2				19	50		71
21	Lemon	1				12		4	17
22	Coconut	10							10
23	Mango	1					50	16	67
24	Chandan						5		5
25	Gamhar						19		19
26	Karam						30		30
27	Minikaranj						26		26
28	Moulasi						10		10
29	Jackfruit							9	9
30	Orange							4	4
31	Shahtoot							2	2
	Total	2008	1074	105	107	203	583	48	4128



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### TEST REPORT

Sample Description	Ambient Air Quality		Campling Details
Job Registration ID	G/JRN/220108/AR-01	Sampling Date	Sampling Details 06th-07th Jan. 2022
ULR Number	**********	Sample collected by	Viwajitraj & Team
Work Order No.	JSPCB-12084258	Sample receiving date	08-01-2022
Report Release Date	02-02-2022	Test Starting Date	10-01-2022
Issue to:		Test Completion date	15-01-2021
M/s Ramkrishna Forg	ings V Ltd,Plant	Sampling Protocol	IS 5182 (Part-23,2,6)
VIII- Bholadih,(Baliga	ıma), PO- Kolabira,	Industry Type	Forging Plant
PS-Seraikela		1	Metrological Information
Dist- Seraikela Kha	rsawan (Jharkhand)	Average Temperature(*C)	24
	VA	Weather Condition	Clear
Wind Direction	North-West	Relative Humidity( %)	75
Company Status	Operating	Barometric Pressure	750 (in mmHg)

Sampling Location	(A) Near Shade No-04	(B) Near Gate No-02	(C) Near ETP Plant
Latitude Longnitude	(24*47*41" N) (86*07*44" E)	(24 *49'07" N) (86 *08'01" E)	(24 °50'42" N) (86 °08'07" E)
Sampling Time	02.00 AM - 02.00 AM	02.10 AM - 02.10 AM	02.20 AM - 02.20 AM

### Test Results

Sampling Time	Parameters	Unit	San	mpling Locatio	m	Permissible Limit
	Test Method		Site A	Site B	Site C	(as per NAAQ-2009
02.00Pm to 02.00Pm	Particulate Matter (PM10)	µg/m3	00.05		124.520	
	IS 5182(Part-23)	µg/ms	98.05	92.83	92.06	100
02.10 Pm to 02.10Pm	Sulphur Dioxide(SO2)				· ·	
	IS 5182(Part-2)	μg/m3	22.4	25.1	27.8	80
02.20 Pm to 02.20Pm	Nitrogen Dioxide(NOx)	2020				
	IS 5182(Part-6)	μg/m3	30.4	63.1	43.2	80

\*\* End of Report\*\*\*\*\*\*

- Test values are found within the prescribed limit of National Ambient Air Quality(NAAQ 2009).
- The Test Report is in accordance with sample received and the test parameters.
- Any dispute is subject to Ranchi Jurisdiction Only.
- The Test report shall not be reproduced partially or whole for advertising or Legal entity.

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Anshu Gupta

Tested By(Analyst

Priyanka Mehta

ed by (Section In-charge)

Gems Projects Pvt. Ltd

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LaboratoryAddress: Harhi Road, VII-Katarpa, Piska Nagri, Jharkhand-835303, Contact: +91-9508707378,



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### TEST REPORT

Sample Description	Noise Level Monitoring	Sam	pling Details	
Job Registration ID	G/JRN/220108/NOISE-01	Sampling Date	06th-07th Jan. 2022	
ULR Number	*********	Sample collected by	Vishwajit Raj& Team	
Work Order No	JSPCB-12084258	Sample receiving date	08-01-2022	
Report Release Date	02-02-2022	Test Starting Date	10-01-2022	
Issue to:		Test Completion date	15-01-2022	
M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela		Sampling Protocol	IS 9989-1981(RA-2001)	
		Test Method	IS 9989-1981(RA-2001)	
		Industry Type	Forging Plant	
Dist- Seraikela Kh	arsawan (Jharkhand)	Company Status	Operating	
		Metrological Information		
		Average Temperature(*0	24	
		Weather Condition	Clear	
Wind Direction	North -West	Relative Humidity %	75	

### Test Results

Sampling Time	Sampling Location	Parameters	Units	Day Time	Night Time
02.10 Pm to 02.10Pm	A. Near Shade No- 4 (22°47'41*N 86°07'44*E)	Leq	dB (A)	54.9	35.6
02.20 Pm to 02.20Pm	B. Near Gate No- 2 (22*49'07"N 86*08'01" E)	Leq	dB (A)	58.9	39.2
02.30 Pm to 02.30Pm	C. Near ETP Plant (22*50'42*N 86*08'07*E)	Leq	dB (A)	59.8	42.9

\*\*\*\*\*\*\* End of Report\*\*\*\*\*\*

Remarks

All values are observed well within the limit

dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale(A).

(2) Leq = Level Equivalent.

(3) Day Time - From 6:00 Am to 10:00Pm, Night Time - From 10:00 PM to 6:00 Am

(4) The Noise Pollution (Regulation and Control) Rules, 2000, (CPCB)

Area/Zone

Day Time/Night Time

Industrial Area

75/70, Limits in dB(A)

5) Any dispute is subject to Ranchi Jurisdiction Only.

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art shall not be reproduced, without the written approval of laboratory In-charge

Anshu Gupta

Tested By(Analyst)

Checked by (Section In-charge)

87/63/2022 Sanjeev Kumar Singh Issued By(Lab In-charge)

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E-mail:gems.projects@vahoo.in, info@gemsgroup.in

LaboratoryAddress: ComBoRtojects wisk tdgri, Jharkhand-835303, Contact: +91-9508707378,



(ENVIRONMENTAL LABORATORY DIVISION)

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### TEST REPORT

Report Type	Stack Emission Monitoring	Sampling Details		
Job Registration ID	G/JRN/220108/STACK-01	Sampling Date	06-01-2022	
ULR Number		Sample Collected By	Viswajit raj & Team	
Work Order No.	JSPCB-12084258	Industry Type	Forging Plant	
Report Release Date	02-02-2022	Company Status	Operating	
Issue to		Sampling Protocol	IS 11255 Part(1,2,7)	
M/s Ramkrishna Forg		Pollution Control System	N/A	
Vill-Bholadih,(Balig		Shape Of Stack	Circular	
PS-Seraikela Dist-	Seraikela Kharsawan	Weather Condition	Clear	
General Information				
Stack No.	if any		Stack-1, Heat Treatment-1 (Shed-01)	
Height of 9	Stack from ground	in metre	21.0	
Diameter	of stack	in metre	0.80	
Height of p	porthole from ground	in metre	8.00	

Fuel Characteristic Report & Oven Description	
Type of Fuel	Propane Gas
Fuel Consumption	N/A
Production Capacity	606
Total No. of Oven	
Oven were in running	••••

Result of Analysis	unit	Result	Method
Ambient temperature	in <sup>0</sup> Ç	24	IS 11255 : part(1)
Stack gas temperature	in ® C	130	IS 11255 : part(1)
Stack gas velocity	in m/s	7.84	IS 11255 : part(3)
Volumetric flow rate	in Nm <sup>3</sup> /hr	9564.12	IS 11255 : part(3)
Concentration of Particulate Matter	in mg/Nm3	30.30	IS 11255 : part(1)
Concentration of Sulphur dioxide	in mg/Nm3	20.12	IS11255 : part(2)
Concentration of Oxides of Nitrogen	mg/Nm3	22.16	CPCB Method

Emission Rate	Unit	Result	
Dust	mg/Nm3	0.28	
Sulphure dioxide	mg/Nm3	0.19	
Nitrogen Dioxide	mg/Nm3	0.21	

\*\*\*\*\*\* End of Report\*\*\*\*

### Remarks

Dust Concentration was found within the prescribed limit.

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The Vest report shall not be reproduced, written approval of laboratory in charges you

Anshu Gupta (Tested by)

Sanjeev Kumar Singh(Issued By)

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### TEST REPORT

Report Type	Stack Emission Monitoring		Sampling Details
Job Registration ID	G/JRN/220108/STACK-02	Sampling Date	06-01-2022
ULR Number	************	Sample Collected By	Viswajit raj & Team
Work Order No.	JSPCB-12084258	Industry Type	Forging Plant
Report Release Date	02-02-2022	Company Status	Operating
issue to		Sampling Protocol	IS 11255 Part(1,2,7)
M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela Dist- Seraikela Kharsawan		Pollution Control System	N/A
		Shape Of Stack	Circular
		Weather Condition	Clear
General Information			
Stack No. i	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		Stack-2 Heat Treatment-2 (Shed-01)
Height of Stack from ground  Diameter of stack  Height of porthole from ground		in metre	21.0
		in metre	0.80
		in metre	8.00

Fuel Characteristic Report & Oven Description	
Type of Fuel Fuel Consumption	Propane Gas
Production Capacity	68 Kg/MT
Total No. of Oven	*****
Oven were in running	

esult of Analysis	unit	Result	Method
Ambient temperature	in <sup>e</sup> C	24	IS 11255 : part(1)
Stack gas temperature	in <sup>0</sup> C	132	IS 11255 : part(1)
Stack gas velocity	in m/s	7.84	IS 11255 : part(3)
Volumetric flow rate	in Nm³/hr	9852.28	IS 11255 : part(3)
Concentration of Particulate Matter	in mg/Nm3	40.14	IS 11255 : part(1)
Concentration of Sulphur dioxide	in mg/Nm <sup>3</sup>	24.12	IS11255: part(2)
Concentration of Oxides of Nitrogen	in mg/Nm <sup>3</sup>	30.3	CPCB Method

Emission Rate	Unit	Result	
Dust	mg/Nm3	0.39	
Sulphure dioxide	mg/Nm3	0.23	
Nitrogen Dioxide	mg/Nm3	0.29	
19-24-7-10-14-1		End of Report******	

Remarks

Dust Concentration was found within the prescribed limit.

- The Test Report is in accordance with sample received and the test parameters.
- 2) Any dispute is subject to Ranchi Jurisdiction Only.

3) The Test report shall not be reproduced partially or whole for advertising or Legal entity.
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Anshu Gupta(Tested byfo (Analyst)

ankamehta (Checked by) (Section In-charge)

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LaboratoryAddress 19718



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### TEST REPORT

Report Type	Stack Emission Monitoring		Sampling Details	
Job Registration ID	G/JRN/220108/STACK-03	Sampling Date	06-01-2022	
ULR Number		Sample Collected By	Viswajit raj & Team	
Work Order No.	JSPCB-12084258	Industry Type	Forging Plant	
Report Release Date	02-02-2022	Company Status	Operating	
Issue to		Sampling Protocol	IS 11255 Part(1,2,7)	
M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela Dist- Seraikela Kharsawan		Pollution Control System	N/A	
		Shape Of Stack	Circular	
		Weather Condition	Clear	
General Information				
Stack No.	if any		Stack-03, Heat Treatment-1 (Shed-II)	
Height of	Stack from ground	in metre	21.0	
Diameter	of stack	in metre	0.60	
Height of porthole from ground		in metre	8.00	

Fuel Characteristic Report & Oven Description	
Type of Fuel	Propane Gas
Fuel Consumption	68 Kg/MT
Production Capacity	
Total No. of Oven	*****
Oven were in running	400

Result of Analysis	unit	Result	Method
Ambient temperature	in °C	22	IS 11255 : part(1)
Stack gas temperature	in <sup>0</sup> C	144	IS 11255 : part(1)
Stack gas velocity	in m/s	9.12	IS 11255 : part(3)
Volumetric flow rate	in Nm³/hr	6184.24	IS 11255 : part(3)
Concentration of Particulate Matter	in mg/Nm <sup>3</sup>	30.15	IS 11255 : part(1)
Concentration of Sulphur dioxide	in mg/Nm <sup>3</sup>	22.22	IS11255: part(2)
Concentration of Oxides of Nitrogen	in mg/Nm <sup>3</sup>	26.13	CPCB Method

Emission Rate	Unit	Result	
Dust	mg/Nm3	0.18	
Sulphure dioxide	mg/Nm3	0.13	
Nitrogen Dioxide	mg/Nm3	0.16	
	*******	End of Report	

### Remarks

Dust Concentration was found within the prescribed limit.

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Anshu Gupta(Tested by Priyanka mehta(Checked by)

(Analyst) (Section In-charge) Registered Office: 1236/2 Lajpar Nagar, Near Jala Lajpat Rai School, Pundag, Argora, Ranchi, Harkhand-834004

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## GEMS PROJECTS PV

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### TEST REPORT

		DOL MINI ONL	The second secon
Report Type	Stack Emission Monitoring		Sampling Details
Job Registration ID	G/JRN/220108/STACK-04	Sampling Date	07-01-2022
ULR Number	***********	Sample Collected By	Viswajit raj & Team
Work Order No.	JSPCB-12084258	Industry Type	Forging Plant
Report Release Date	02-02-2022	Company Status	Operating
Issue to	+	Sampling Protocol	IS 11255 Part(1,2,7)
M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira,		Pollution Control System	N/A
		Shape Of Stack	Circular
PS-Seraikela Dist-	-Seraikela Dist- Seraikela Kharsawan Weather Condition		Clear
General Information			
Stack No.	if any		Stack-04, Heat Treatment-2(Shed-II)
Height of	Stack from ground	in metre	21.0
Diameter	of stack	in metre	0.60
Height of	porthole from ground	in metre	8.00

Fuel Characteristic Report & Oven Description		
Type of Fuel	10	Propane Gas
Fuel Consumption		68 Kg/MT
Production Capacity		****
Total No. of Oven		*****
Oven were in running		MILL.

Result of Analysis	unit	Result	Method
Ambient temperature	in ° C	18	IS 11255 : part(1)
Stack gas temperature	in <sup>0</sup> C	124	IS 11255 : part(1)
Stack gas velocity	in m/s	9.04	IS 11255 : part(3)
Volumetric flow rate	in Nm3/hr	6430.25	IS 11255 : part(3)
Concentration of Particulate Matter	in mg/Nm3	24.36	IS 11255: part(1)
Concentration of Sulphur dioxide	in mg/Nm3	28.14	IS11255: part(2)
Concentration of Oxides of Nitrogen	in mg/Nm3	32.32	CPCB Method

Emission Rate	Unit	Result	
Dust	mg/Nm3	0.15	
Sulphure dioxide	mg/Nm3	0.18	
Nitrogen Dioxide	mg/Nm3	0.20	
	2222344	C-1-CD	

Remarks

Dust Concentration was found within the prescribed limit.

The Test Report is in accordance with sample received and the test parameters.

2) Any dispute is subject to Ranchi Jurisdiction Only.

Section In-charge)

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Sanjeev Kuma

(Analyst)
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### TEST REPORT

Report Type	Stack Emission Monitoring		Sampling Details
Job Registration ID	G/JRN/220108/STACK-05	Sampling Date	07-01-2022
ULR Number		Sample Collected By	Viswajit raj & Team
Work Order No.	JSPCB-12084258	Industry Type	Forging Plant
Report Release Date	02-02-2022	Company Status	Operating
Issue to		Sampling Protocol	IS 11255 Part(1,2,7)
M/s Ramkrishna Forgings V Ltd,Plant VIII- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela Dist- Seraikela Kharsawan		Pollution Control System	N/A
		Shape Of Stack	Circular
		Weather Condition Clear	
General Information			
Stack No.	if any		Stack-05, Paint Shop Hot Water Generator
Height of	Stack from ground	in metre	18.0
Diameter	of stack	in metre	0.20
Height of porthole from ground		in metre	3.00

Fuel Characteristic Report & Oven Description			
Type of Fuel		Propane gas	
Fuel Consumption		40 Kg/hr	
Production Capacity		2000	
Total No. of Oven		*****	
Oven were in running	2	*****	

Result of Analysis	unit	Result	Method
Ambient temperature	in 0 C	20	IS 11255 : part(1)
Stack gas temperature	in <sup>0</sup> C	72	IS 11255 : part(1)
Stack gas velocity	in m/s	9.74	IS 11255 : part(3)
Volumetric flow rate	in Nm3/hr	942.36	IS 11255 : part(3)
Concentration of Particulate Matter	in mg/Nm <sup>3</sup>	14.12	IS 11255 : part(1)
Concentration of Sulphur dioxide	in mg/Nm3	16.80	IS11255 : part(2)
Concentration of Oxides of Nitrogen	in mg/Nm <sup>3</sup>	20.17	CPCB Method

Unit	Result	
mg/Nm3	0.01	
mg/Nm3	0.01	
mg/Nm3	0.01	
	mg/Nm3 mg/Nm3	mg/Nm3 0.01 mg/Nm3 0.01 mg/Nm3 0.01

\*\* End of Report\*\*\*\*

### Remarks

Dust Concentration was found within the prescribed limit.

1) The Test Report is in accordance with sample received and the test parameters.

2) Any dispute is subject to Ranchi Jurisdiction Only.

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application approval of laboratory In-charges

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TEST	REP	ORT

Report Type	Stack Emission Monitoring	Sampling Details		
Job Registration ID	G/JRN/220108/STACK-06	Sampling Date	07-01-2022	
ULR Number	************	Sample Collected By	Viswajit raj & Team	
Work Order No.	JSPCB-12084258	Industry Type	Automobiles	
Report Release Date 02-02-2022		Company Status	Operating	
Issue to		Sampling Protocol IS 11255 Part(1,2,7)		
M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela Dist- Seraikela Kharsawan		Pollution Control System	N/A	
		Shape Of Stack	Circular	
		Weather Condition	Clear	
General Information				
Stack No. i			Stack-06, Paint Shop Water Dry Off Oven	
Height of Stack from ground  Diameter of stack  Height of porthole from ground		in metre	18.0	
		in metre	0.20x0.20	
		in metre	9.50	

Fuel Characteristic Report & Oven Description	
Type of Fuel	Propane Gas
Fuel Consumption	N/A
Production Capacity	N/A
Total No. of Oven	
Oven were in running	****

Result of Analysis	unit	Result	Method
Ambient temperature	in °C	22	IS 11255 : part(1)
Stack gas temperature	in <sup>0</sup> C	134	IS 11255 : part(1)
Stack gas velocity	in m/s	10.20	IS 11255 : part(3)
Volumetric flow rate	in Nm <sup>3</sup> /hr	985.58	IS 11255 : part(3)
Concentration of Particulate Matter	in mg/Nm <sup>3</sup>	24.56	IS 11255 : part(1)
Concentration of Sulphur dioxide	in mg/Nm <sup>3</sup>	14.47	IS11255 : part(2)
Concentration of Oxides of Nitrogen	in mg/Nm <sup>3</sup>	16,58	CPCB Method

Emission Rate	Unit	Result	
Dust	mg/Nm3	0.02	
Sulphure dioxide	mg/Nm3	0.01	
Nitrogen Dioxide	mg/Nm3	0.01	
A(500 07) - 957		End of Report******	

Remarks

Dust Concentration was found within the prescribed limit.

The Test Report is in accordance with sample received and the test parameters.

2) Any dispute is subject in Ranchi Jurisdiction Only.

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Anshu Gupta Tested by (Analyst)

ka mehta(Checked by) (Section In-charge)

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### TEST REPORT

Report Type	Stack Emission Monitoring	Sampling Details		
Job Registration ID	G/JRN/220108/STACK-07	Sampling Date	07-01-2022	
ULR Number		Sample Collected By	Viswajit raj & Team	
Work Order No.	JSPCB-12084258	Industry Type	Forging Plant	
Report Release Date 02-02-2022		Company Status	Operating	
Issue to			IS 11255 Part(1,2,7)	
M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela Dist- Seraikela Kharsawan		Pollution Control System	N/A	
		Shape Of Stack	Circular	
		Weather Condition	Clear	
General Information				
Stack No. i	if any		Stack-07, Paint Shop-Paint Baking Oven	
Height of Stack from ground		in metre	18.0	
Diameter of stack		In metre	0.20*0.20	
Height of p	porthole from ground	in metre	9.50	

Fuel Characteristic Report & Oven Description	
Type of Fuel	Propane Gas
Fuel Consumption	N/A
Production Capacity	N/A
Total No. of Oven	*****
Oven were in running	

Result of Analysis	unit	Result	Method
Ambient temperature	in <sup>a</sup> C	22	IS 11255 : part(1)
Stack gas temperature	in <sup>0</sup> C	126	IS 11255 : part(1)
Stack gas velocity	in m/s	8.26	IS 11255; part(3)
Volumetric flow rate	in Nm3/hr	1026.39	IS 11255 : part(3)
Concentration of Particulate Matter	in mg/Nm3	21.84	IS 11255 : part(1)
Concentration of Sulphur dioxide	in mg/Nm3	16.80	IS11255 : part(2)
Concentration of Oxides of Nitrogen	in mg/Nm3	26.33	CPCB Method

Emission Rate	Unit	Result	
Dust	mg/Nm3	0.02	
Sulphure dioxide	mg/Nm3	0.01	
Nitrogen Dioxide	mg/Nm3	0.02	
		End of Report******	

Remarks

(Analyst)

Dust Concentration was found within the prescribed limit.

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### TEST REPORT

Report Type	Stack Emission Monitoring		Sampling Details
Job Registration ID	G/JRN/220108/STACK-08	Sampling Date	07-01-2022
ULR Number	***********	Sample Collected By	Viswajit raj & Team
Work Order No.	JSPCB-12084258	Industry Type	Forging Plant
Report Release Date	02-02-2022	Company Status	Operating
Issue to		Sampling Protocol	IS 11255 Part(1,2,7)
M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela Dist- Seraikela Kharsawan		Pollution Control System	N/A
		Shape Of Stack	Circular
		Weather Condition	Clear
General Information			
Stack No.	if any	128	Stack-08, DG-1-Stack
Height of S	Stack from ground	in metre	30.0
Diameter of stack		in metre	0.40
Height of 1	porthole from ground	in metre	15.22

Fuel Characteristic Report & Oven Description	
Type of Fuel	H.S.D
Fuel Consumption	250 lit/hr
Production Capacity	9789978300183 W.
Total No. of Oven	*****
Oven were in running	

Result of Analysis	unit	Result	Method
Ambient temperature	in <sup>o</sup> C	22	IS 11255 : part(1)
Stack gas temperature	in <sup>0</sup> C	136	IS 11255 : part(1)
Stack gas velocity	in m/s	324.56	IS 11255 : part(3)
Volumetric flow rate	in Nm3/hr	3655.64	IS 11255 : part(3)
Concentration of Particulate Matter	in mg/Nm <sup>3</sup>	40.30	IS 11255 : part(1)
Concentration of Sulphur dioxide	in mg/Nm <sup>3</sup>	96.36	IS11255 : part(2)
Concentration of Oxides of Nitrogen	in mg/Nm <sup>3</sup>	128.88	CPCB Method

Emission Rate	Unit	Result	
Dust	mg/Nm3	0.14	
Sulphure dioxide	mg/Nm3	0.35	
Nitrogen Dioxide	mg/Nm3	0.47	

Remarks

Dust Concentration was found within the prescribed limit.

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Anshu Gupta Tested by

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(Analyst)

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\*\*\*\*\*\*\* End of Report\*\*\*\*\*\*\*



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### TEST REPORT

Report Type	Stack Emission Monitoring		Sampling Details
Job Registration ID	G/JRN/220108/STACK-09	Sampling Date	07-01-2022
ULR Number		Sample Collected By	Viswajit raj & Team
Work Order No.	JSPCB-12084258	Industry Type	Forging Plant
Report Release Date	02-02-2022	Company Status	Operating
Issue to		Sampling Protocol	IS 11255 Part(1,2,7)
M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela Dist- Seraikela Kharsawan		Pollution Control System	N/A
		Shape Of Stack	Circular
		Weather Condition	Clear
General Information			1
Stack No.	if any		Stack-09,DG-2-Stack
Height of S	Stack from ground	in metre	30.0
Diameter	of stack	in metre	0.40
Height of p	porthole from ground	in metre	15.22

Fuel Characteristic Report & Oven Description			
Type of Fuel		H.S.D	
Fuel Consumption	<b>t</b> t	250 Lit/hr	
Production Capacity		12 12 St. 10 St. 17 T.	
Total No. of Oven		****	
Oven were in running		****	

Result of Analysis	unit	Result	Method
Ambient temperature	in ° C	24	IS 11255 : part(1)
Stack gas temperature	in <sup>0</sup> C	364	IS 11255 : part(1)
Stack gas velocity	in m/s	16.34	IS 11255 : part(3)
Volumetric flow rate	in Nm³/hr	3364.36	IS 11255 : part(3)
Concentration of Particulate Matter	in mg/Nm3	46,36	IS 11255 : part(1)
Concentration of Sulphur dioxide	in mg/Nm3	130.96	IS11255 : part(2)
Concentration of Oxides of Nitrogen	in mg/Nm <sup>3</sup>	188.08	CPCB Method

Unit	Result	
mg/Nm3	0.15	
mg/Nm3	0.44	
	0.63	
		mg/Nm3 0.15 mg/Nm3 0.44

Remarks

Dust Concentration was found within the prescribed limit.

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- Any dispute is subject to Ranchi Jurisdiction Only.

(3) The Test seport shall not be reproduced partially or whole for advertising or Legal entity.

4) The Test report shall not be approduced, without the writing approval of laboratory in-charge.

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### TEST REPORT

Issued to: M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela Dist- Seraikela Kharsawan (Jharkhand)		Job Registration ID	G/JRN/220108/CH-01
		ULR Number	
		Date of Issue	01-02-2022
		Type of Industries	Forging plant
		Sample Description	Drinking Water
Sample Code	G/220108/DW-01	Sampling Date	06-01-2022
Sample Quantity	2000ml	Sampling Location	
Sample receiving date	08-01-2022		Near canteen
Sample pkg. condition	Sealed in PET Bottle	Sample collected by	Vishwajit Raj & Team
Test Start Date		Sampling Protocol	IS :3025 (Part 1)
rest start Date	10-01-2022	Test Completion Date	15-01-2022

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SI. No.	Parameter	Method	Unit	Result	Permissible limit
1.	pH	IS:3025( Part-11)		7.2	2000 A LEGISLAND CONTROL
2.	Temperature	IS:3025( Part-9)	Ф.C	7.2	6.5-8.5
3.	TDS	IS:3025( Part-16)	-	21.0	
4.	Turbidity	IS:3025( Part-10)	mg/l	90.0	500-2000
5.	Sulphate (as SO <sub>4</sub> )	IS:3025( Part-24)	NTU	1.67	1-5
6.	Iron		mg/l	1.66	200-400
7.	Total Hardness	IS:3025( Part-53)	mg/l	0.11	1.0
8.	Alkalinity	IS:3025( Part-21)	mg/l	42.84	200-600
9.	Chloride	IS:3025( Part-23)	mg/l	32.0	200-600
10	Fluoride	IS:3025( Part-32)	mg/l	4.49	250-100
11	Calcium	APHA 4500 F D	mg/l	0.92	1.0-1.5
12		IS:3025( Part-40)	mg/l	10.8	75-200
100	Magnesium	APHA 3500 Mg-B	mg/l	3.04	30-100
13	Sodium	IS:3025( Part-45)	mg/I	7.62	**
14	Potassium	IS:3025( Part-45)	mg/I	3.52	-
15	Ammonia	IS:3025( Part-34)	mg/l	BDL (DL 0.1)	0.5 max <sup>m</sup>

Janka menta 2	OLE 18 17022
Priyanka Mehta Anshu Gupta	Sanjeev Kumar Singh
Tested by Checked by	Issued by
(Chemical)	(Laboratory In-Charge) Lab In-Charge

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### TEST REPORT

Issued to:			G/JRN/220108/CH-01
M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela		ULR Number	***************************************
		Date of Issue	02-02-2022
		Type of Industries	Forging Plant
Dist- Seraikela Kharsa	wan (Jharkhand)	Sample Description	Drinking Water
Sample Code	G/220108/DW-01	Sampling Date	06-01-2022
Sample Quantity	2000ml	Sampling Location	Near canteen
Sample receiving date	08-01-2022	Sample collected by	Vishwajit Raj & Team
Sample pkg. condition	Sealed in PET Bottle	Sampling Protocol	15 :3025 (Part 1)
Test Start Date	10-01-2022	Test Completion Date	15-01-2022

#### RESULT

SI. No.	Parameter	Method	Unit	Result	Permissible limit
16	Nitrate	IS:3025( Part-34)	mg/l	1.23	45 max <sup>m</sup>
17	Free Residual Chlorine	IS:3025( Part-26)	mg/l	ND	0.2-1.0
18	Colour	IS:3025( Part-05)	mg/l	<5	5-15
19	Manganese	I5:3025( Part-59)	mg/l	BDL (DL 0.03)	0.1-0.3
20	Odour	IS:3025( Part-08)	mg/l	Agreeable	Agreeable
21	Aluminum	IS:3025( Part-55)	mg/l	BDL (DL-0.01)	0.03-0.2

\*\*\* End of Test report\*\*\*

Note: - On the basis of the tested parameters, sample complies with the requirement of Drinking Water according to IS 10500:2012

#### Remarks:

- The Test Report is in accordance with sample received and the test parameters.
- 2. For any Query in test Report, Please contact Quality Manager within 24hrs from the Issue date of Report.
- The test report shall not be reproduced, without the written approval from the laboratory.
- Any dispute is subject to Ranchi Jurisdiction Only.
- 5. The Test report shall not be reproduced partially or whole for advertising or as Legal entity.
- 6. BDL- Below Detectable Limit; ND- Not Detected; DL- Detectable Limit

Priyanka Mehta OJEOS Anshu Gupta	Sanjeev Kumar Singh
Tested by Checked by	Issued by
(Chemical)	



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### TEST REPORT

Issued to:		Job Registration ID	G/JRN/220108/CH-01
M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela Dist- Seraikela Kharsawan (Jharkhand)			G/3RIV/220108/CH-01
		ULR Number	
		Date of Issue	02-02-2022
		Type of Industries	Forging Plant
Dist- Seraikela Kharsa	wan (Jharkhand)	Sample Description	Ground Water
Sample Code	G/220108/GW-01	Sampling Date	07-01-2022
Sample Quantity	2000ml	Sampling Location	The state of the s
Sample receiving date	08-01-2022		Near Storage Water Tank
	The state of the s	Sample collected by	Vishwajit Raj & Team
Sample pkg. condition	Sealed in PET Bottle	Sampling Protocol	IS 3025 (Part -1)
Test Start Date	10-10-2022	Test Completion Date	15-01-2022

RESULT

SI. No.	Parameter	Method	Unit	Result	Permissible limit
1.	pH	IS:3025( Part-11)		7.24	6.5-8.5
2.	Temperature	IS:3025( Part-9)	°C	20.0	0.3-0.3
3.	TDS	IS:3025( Part-16)	mg/l	750.0	500-2000
4.	Sulphate (as SO <sub>4</sub> )	IS:3025( Part-24)	mg/l	42.51	200-400
5.	Iron	IS:3025( Part-53)	mg/l	1.02	
6.	Total Hardness	IS:3025( Part-21)	mg/l	173.4	1.0
7.	Alkalinity	IS:3025( Part-23)	mg/l	60.0	200-600
8.	Chloride	IS:3025( Part-32)	mg/l	56.48	/5-10/L-CCF-1
9,	Calcium	IS:3025( Part-40)	mg/l	130.5	250-100
10.	Magnesium	APHA 3500 Mg-B	mg/l	1.31	75-200
11.	Sodium	IS:3025( Part-45)	mg/l	74.03	30-100
12.	Potassium	IS:3025( Part-45)	mg/l	18.14	
13.	Turbidity	IS:3025( Part-10)	mg/l	1.26	
14.	Odour	IS:3025( Part-08)	mg/l	Agreeable	1-5
15.	(Total Suspended Solid) TSS	IS:3025( Part-17)	mg/l	7.0	Agreeable
16.	Aluminum	IS:3025( Part-55)	mg/l	0.12	
17.	Nitrite	IS:3025( Part-34)	mg/l		0.03-0.2
18.	TKN	IS:3025( Part-34)	mg/l	BDL (DL 0.01)	7.
19.	Fluoride	APHA 4520 F- D		BDL (DL 0.1)	
	Conductivity	IS:3025( Part-14)	mg/l μS/m	1.19	1.0-1.5

Priyanka mehta

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O SO SO Anshu Gupta

O Sanjeev Rumar Singh

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Issued by

Laboratory Analyst;

(Chemical)

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#### TEST REPORT

Issued to:		Job Registration ID	G/JRN/220108/CH-01
M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela		ULR Number	************
		. Date of Issue	02-01-2022
		Type of Industries	Forging Plant
Dist- Seraikela Kharsa	wan (Jharkhand)	Sample Description	Ground Water
Sample Code	G/220108/GW-01	Sampling Date	07-01-2022
Sample Quantity	2000ml	Sampling Location	Near Storage Water Tank
Sample receiving date	08-01-2022	Sample collected by	Vishwajit Raj & Team
Sample pkg. condition	Sealed in PET Bottle	Sampling Protocol	IS 3025 (Part -1)
Test Start Date	10-10-2022	Test Completion Date	15-01-2022

#### RESULT

SI. No.	Parameter	Method	Unit	Result	Permissible limi
21.	Acidity	IS:3025( Part-22)	mg/l	35.0	-
22.	Nitrate	IS:3025( Part-34)	mg/l	3.58	100
23.	Phenolic Compounds	IS:3025( Part-43)	mg/l	ND (DL 0.001)	0.01- 0.002
24.	COD	IS:3025( Part-58)	mg/l	276.0	
25.	Phosphates	IS:3025( Part-31)	mg/l	BOL (DL 0.01)	
26.	Dissolved Silica	IS:3025( Part-35)	mg/l	9.3	-
27.	Hexavalent Chromium	IS:3025( Part-52)	mg/l	BDL (DL 0.01)	0.05 max
28.	Colour	IS:3025( Part-05)	Hazen .	<5	5-15
29.	Salinity	APHA 2520	PSU	4.62	-
30.	Manganese	IS:3025( Part-59)	mg/l	BDL (DL 0.01)	0.1-0.3
31.	Ammonical Nitrogen	IS:3025( Part-34)	mg/l	BDL (DL 0.1)	0.5 max
32.	R Chlorine	IS:3025( Part-26)	mg/l	ND (DL 0.1)	0.2-1.0
33.	Total Volatile Solids	IS:3025( Part-15)	mg/l	671.2	353
34.	Oil and Grease	IS:3025( Part-39)	mg/i	BDL (DL 0.1)	
35.	Total Solids (TS)	IS:3025( Part-15)	mg/l	782.0	- 1

\*\*\* End of Test report\*\*\*

Note: - On the basis of the tested parameters, sample complies with the requirement of Drinking Water according to IS 10500:2012

### Remarks:

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Priyanka mehta

Priyanka mehta

Tested by

Laboratory Analyst
(Chemical)

Chemical

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(ENVIRONMENTAL LABORATORY DIVISION)

APPROVED BY JHARKHAND STATE POLLUTION CONTROL BOARD | ISO9001 & OHSAS 18001 CERTIFIED

### TEST REPORT

Issued to:			G/JRN/220108/CH-01
M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela Dist- Seraikela Kharsawan (Jharkhand)		Job Registration ID	G/JRN/220108/CH-01
		ULR Number	***************************************
		Date of Issue	02-02-2022
		Type of Industries	Forging Plant
Control of the Contro	wan (Jharkhand)	Sample Description	ETP outlet
Sample Code	G/220108/EW-03	Sampling Date	06-01-2021
Sample Quantity	2000ml		The state of the s
Sample receiving date	777771111	Sampling Location	Near ETP Inlet Boundary
	08-01-2022	Sample collected by	Vishwajit Raj & Team
Sample pkg. condition	Sealed in PP Bottle	Sampling Protocol	
Test Start Date	10-01-2022		IS:3025 (Part 1)
	10-01-2022	Test Completion Date	15-01-2022

#### RESULT

SI. No.	Parameter	Test Method	Unit	Result	Permissible limit
1	pH	IS:3025( Part-11)		7.07	
2	Temperature	IS:3025( Part-09)	°C	7.07	5.5-9.0
3	Total Suspended Solid(TSS)	IS:3025( Part-17)		20.0	799
4	Chemical Oxygen Demand		mg/l	70.0	100,max**
	(COD)	IS:3025( Part-58)	mg/l	245.0	250 ,max <sup>th</sup>
5	Biochemical Oxygen Demand (BOD)	IS:3025( Part-44)	mg/l	28.0	30, max <sup>m</sup>
6	Oil and Grease	IS:3025( Part-39)	mg/l	4.8	10,max <sup>m</sup>

\*\*\* End of Test report\*\*\*

Note: - On the basis of the tested parameters, sample comply with the requirement of Effluent water according to CPCB (The Environment Protection Rules, 1986, Schedule – VI)

### Remarks:

- The Test Report is in accordance with sample received and the test parameters.
- 2. For any Query in test Report, Please contact Quality Manager within 24hrs from the Issue date of Report.
- The test report shall not be reproduced, without the written approval from the laboratory.
- Any dispute is subject to Ranchi Jurisdiction Only.
- 5. The Test report shall not be reproduced partially or whole for advertising or as Legal entity.

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Registered Office: 1236/2 Lajpat Nagar, Near Lala Lajpat Rai School, Pundag, Argora, Ranchi, Jharkhand-834004 Contact:+91-9431115961, +91-9934307900 E-mail:gems.projects@yahoo.in, info@gemsgroup.in LaboratoryAddress: Harhi Road, Vil-Katarpa,Piska Nagri, Jharkhand-835303,Contact: +91-9508707378, E-mail: gemslab17@gmail.com

Website: www.gemsgroup.in



### (ENVIRONMENTAL LABORATORY DIVISION)

APPROVED BY JHARKHAND STATE POLLUTION CONTROL BOARD | 1809001 & OHSAS 18001 CERTIFIED

### TEST REPORT

Issued to: M/s Ramkrishna Forgings V Ltd,Plant Vill- Bholadih,(Baliguma), PO- Kolabira, PS-Seraikela		Job Registration ID	G/JRN/220108/CH-01
		ULR Number	
		Date of Issue	02-02-2022
		Type of Industries	Foreging Plant
Dist- Seraikela Kharsa	wan (Jharkhand)	Sample Description	STP outlet
Sample Code	G/220108/EW-02	Sampling Date	06-12-2021
Sample Quantity	2000ml	Sampling Location	Near ETP Outlet Boundary
Sample receiving date	08-01-2022	Sample collected by	Vishwajit Raj & Team
Sample pkg. condition	Sealed in PP Bottle	Sampling Protocol	IS:3025 (Part 1)
Test Start Date	10-01-2022	Test Completion Date	15-01-2022

#### RESULT

SI. No.	Parameter	Test Method	Unit	Result	Permissible limit
1	pH	IS:3025( Part-11)	20100	7.59	5.5-9.0
2	Temperature	IS:3025( Part-09)	°c	20.0	
3	Total Suspended Solid(TSS)	IS:3025( Part-17)	mg/l	17.0	100,max <sup>m</sup>
4	Chemical Oxygen Demand (COD)	IS:3025( Part-58)	mg/l	180.0	250 ,max <sup>m</sup>
5	Blochemical Oxygen Demand (BOD)	IS:3025( Part-44)	mg/l	25.0	30, max"
6	Oil and Grease	15:3025( Part-39)	mg/l	1.4	10,max <sup>m</sup>

\*\*\* End of Test report\*\*\*

Note: - On the basis of the tested parameters, sample comply with the requirement of Effluent water according to CPCB (The Environment Protection Rules, 1986, Schedule – VI)

### Remarks:

- 1. The Test Report is in accordance with sample received and the test parameters.
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