



ENVIRONMENTAL LABORATORIES &



PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)
Email: info@elespl.com ; eles.ranchi@gmail.com
GST NO:- 20AAECE9713D124 ☎ : 0651-2290103, 9931289451

ENGINEERING SERVICES PVT. LTD.
ISO 9001:2015 CERTIFIED, OHSAS 18001:2007 CERTIFIED
NABL Accredited & JSPCB Certified Lab. for
Environmental Pollution Monitoring & Analysis

TEST REPORT OF WORKZONE AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/3100	Report Release Date	: 20.10.2021
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CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Mongia Steel Limited	Sample Ref. No.	: ELES/RNC/2021/FA/891(A)
Address	: PO-Burhiadih, Tundi Road, Giridih-815302	Location	: Near Gasifier (10m Distance)
		Sampling Date	: 13.09.2021
Plant Status	: Operational	Sample Received Date	: 16.09.2021
		Type of Sample	: Workzone/Fugitive Air
Period of Analysis	: 16.09.2021 to 20.10.2021	Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION					
1	Average Temperature (°C)	: 35	2	Barometric Pressure (mmHg)	: 750
3	Relative Humidity (%)	: 64	4	Weather Condition	: Clear

TEST REPORT

Parameter	Unit	Test Protocol	Result
Suspended Particulate Matter (SPM)	µg/m ³	IS:5182 (Part-4):1999	410


Authorized Signatory
SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.

****End of Report****


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

Page 1 of 1

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CIN: U74999JH2018PTC011125

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Website: www.elespl.co.in

GST NO:- 20AAECE9713D1Z4 / : 0651-2290103, 9931289451

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TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5466	Report Release Date	: 29.12.2021
ULR No.	: TC88392100000962F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Mongia Steel Limited	Sample Ref. No.	: ELES/RNC/2021/AA/1381
Address	: PO-Burhiadih, Tundi Road, Giridih-815302	Location	: Beside Store Room
Plant Status	: Operational	Sampling Date	: 22.12.2021 to 23.12.2021
Period of Analysis	: 25.12.2021 to 29.12.2021	Sample Received Date	: 25.12.2021
		Type of Sample	: Ambient Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	: 23	2	Barometric Pressure (mmHg)	: 749
3	Relative Humidity (%)	: 54	4	Weather Condition	: Clear
5	Longitude	: 86°19'35.55"E	6	Latitude	: 24°09'36.97"N
7	NABL Group	: Atmospheric Pollution	8	Discipline	: Chemical

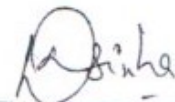
TEST REPORT

NABL Accredited Tests

Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part-23):2006; RA2017	81	100 (24hrs)
Particulate Matter (PM2.5)	µg/m ³	USEPA CFR40	44	60 (24hrs)
Sulphur Di-Oxide (SO ₂)	µg/m ³	IS 5182 (Part-2):2001; RA2017	19.3	80 (24hrs)
Nitrogen Di-Oxide (NO ₂)	µg/m ³	IS 5182 (Part-6):2001; RA2017	29.7	80 (24hrs)


Authorized Signatory
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SENIOR MANAGER
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HATIA, RANCHI-834003 (JHARKHAND)

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TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No. : ELES/RNC/2021/5465

Report Release Date : 29.12.2021

ULR No. : TC88392100000961F

CUSTOMER DETAILS

Customer Name : Mongia Steel Limited
Address : PO-Burhiadih, Tundi Road,
Giridih-815302
Plant Status : Operational
Period of Analysis : 25.12.2021 to 29.12.2021

SAMPLE DETAILS

Sample Ref. No. : ELES/RNC/2021/AA/1380
Location : Near Control Room
Sampling Date : 22.12.2021 to 23.12.2021
Sample Received Date : 25.12.2021
Type of Sample : Ambient Air
Sampling Procedure : ELES/DOC/SMPL/02
Sample Drawn By : ELES Pvt. Ltd.
Sample Condition : Sealed & Preserved

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	: 23	2	Barometric Pressure (mmHg)	: 749
3	Relative Humidity (%)	: 54	4	Weather Condition	: Clear
5	Longitude	: 86°19'30.83"E	6	Latitude	: 24°09'29.58"N
7	NABL Group	: Atmospheric Pollution	8	Discipline	: Chemical

TEST REPORT

NABL Accredited Tests

Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part-23):2006; RA2017	84	100 (24hrs)
Particulate Matter (PM2.5)	µg/m ³	USEPA CFR40	46	60 (24hrs)
Sulphur Di-Oxide (SO ₂)	µg/m ³	IS 5182 (Part-2):2001; RA2017	16.4	80 (24hrs)
Nitrogen Di-Oxide (NO ₂)	µg/m ³	IS 5182 (Part-6):2001; RA2017	29.7	80 (24hrs)

Authorized Signatory

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SENIOR MANAGER
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Website : www.elespl.co.in

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GST NO:- 20AAECE9713D1Z4 ℓ : 0651-2290103, 9931289451

TEST REPORT OF AMBIENT AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5464	Report Release Date	: 29.12.2021
ULR No.	: TC883921000000960F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Mongia Steel Limited	Sample Ref. No.	: ELES/RNC/2021/AA/1379
Address	: PO-Burhiadih, Tundi Road, Giridih-815302	Location	: Near Main Gate
Plant Status	: Operational	Sampling Date	: 22.12.2021 to 23.12.2021
Period of Analysis	: 25.12.2021 to 29.12.2021	Sample Received Date	: 25.12.2021
		Type of Sample	: Ambient Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved


METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	: 23	2	Barometric Pressure (mmHg)	: 749
3	Relative Humidity (%)	: 54	4	Weather Condition	: Clear
5	Longitude	: 86°19'41.55"E	6	Latitude	: 24°09'30.97"N
7	NABL Group	: Atmospheric Pollution	8	Discipline	: Chemical

TEST REPORT

NABL Accredited Tests

Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part-23):2006; RA2017	89	100 (24hrs)
Particulate Matter (PM2.5)	µg/m ³	USEPA CFR40	51	60 (24hrs)
Sulphur Di-Oxide (SO ₂)	µg/m ³	IS 5182 (Part-2):2001; RA2017	20.3	80 (24hrs)
Nitrogen Di-Oxide (NO ₂)	µg/m ³	IS 5182 (Part-6):2001; RA2017	31.7	80 (24hrs)


Authorized Signatory
SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.

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Ph. D. Environmental Engg.
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HATIA, RANCHI-834003 (JHARKHAND)

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CIN: U74999JH2018PTC011125

TEST REPORT OF FLUE GAS EMISSION QUALITY MONITORING

Test Report No. : ELES/RNC/2021/5469	Report Release Date : 29.12.2021
ULR No. : TC883921000000965P	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Mongia Steel Limited	Sample Ref. No.	: ELES/RNC/2021/SM/1386
Address	: PO-Burhiadih, Tundi Road, Giridih-815302	Location	: Induction Furnace
Plant Status	: Operational	Sampling Date	: 22.12.2021
		Sample Received Date	: 25.12.2021
		Type of Sample	: Flue Gas
		Sampling Procedure	: ELES/DOC/SMPL/02(A)
		Sample Drawn By	: ELES Pvt. Ltd.
Period of Analysis	: 25.12.2021 to 29.12.2021	Sample Condition	: Sealed & Preserved

GENERAL INFORMATION

1	Particular of the Plant	: M.S. Billets Manufacturing Unit
2	Emission Due to	: Process Activity
3	Stack Connected to	: Induction Furnace via Bag Filter
4	Material of Construction of Duct	: M.S
5	Stack Height from Ground Level (m)	: 30.0
6	Height of Sampling Port from Ground Level (m)	: 10.0
7	Inner Diameter of Stack at Sampling Point (m)	: 0.9
8	Shape of the Stack	: Circular
9	Working Load of the Stack	: N/A
10	Pollution Control System	: Bag Filter
11	Ladder & Platform	: Permanent

FUEL CHARACTERISTICS DETAILS

1	Type of Fuel Used	: Electricity
2	Fuel Consumption	: N/A
3	Calorific Value of Fuel (Kcal/Kg)	: N/A

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HATIA, RANCHI-834003 (JHARKHAND)

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

Website : www.elespl.co.in

GST NO:- 20AAECE9713D124 ☎ : 0651-2290103, 9931289451



TC-8839

B-750

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TEST REPORT OF FLUE GAS EMISSION QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5469	Report Release Date	: 29.12.2021
ULR No.	: TC883921000000965P		

TEST REPORT

NABL Accredited Tests			
NABL Group: Atmospheric Pollution		Discipline: Chemical	
Parameter	Unit	Test Protocol	Result
Particulate Matter (PM)	mg/Nm ³	IS 11255(Part 1):1985; RA 2014	98
Oxides of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part-7) 1985	<40.0
Flue Gas Temperature	°C	IS 11255 (Part 3): 2008; RA 2018	55
Barometric Pressure	mmHg	IS 11255 (Part 3): 2008; RA 2018	747
Velocity of Flue Gas	m/sec	IS 11255 (Part 3): 2008; RA 2018	7.36
Quantity of Gas Flow	Nm ³ /hr	IS 11255 (Part 3): 2008; RA 2018	15014

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TEST REPORT OF FLUE GAS EMISSION QUALITY MONITORING

Test Report No. : ELES/RNC/2021/5469	Report Release Date : 29.12.2021
ULR No. : TC883921000000965P	

TEST REPORT

Parameter	Unit	Test Protocol	Result
Sulphur Di-Oxide (SO ₂)	mg/Nm ³	USEPA 6A	19

Authorized Signatory
SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.

****End of Report****

Authorised Signatory
Dr. Deependra Kumar Sinha
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TC-8835

B-790

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TEST REPORT OF FLUE GAS EMISSION QUALITY MONITORING

Test Report No. : ELES/RNC/2021/5470	Report Release Date : 29.12.2021
ULR No. : TC88392100000966P	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Mongia Steel Limited	Sample Ref. No.	: ELES/RNC/2021/SM/1387
Address	: PO-Burhiadih, Tundi Road, Giridih-815302	Location	: Reheating Furnace at Rolling Mill
Plant Status	: Operational	Sampling Date	: 22.12.2021
		Sample Received Date	: 25.12.2021
		Type of Sample	: Flue Gas
		Sampling Procedure	: ELES/DOC/SMPL/02(A)
Period of Analysis	: 25.12.2021 to 29.12.2021	Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

GENERAL INFORMATION

1	Particular of the Plant	: Rolling mill
2	Emission Due to	: Combustion of Producer Gas
3	Stack Connected to	: Reheating Furnace at Rolling Mill
4	Material of Construction of Duct	: M.S
5	Stack Height from Ground Level (m)	: 30.0
6	Height of Sampling Port from Ground Level (m)	: 15.0
7	Inner Diameter of Stack at Sampling Point (m)	: 0.6
8	Shape of the Stack	: Circular
9	Working Load of the Stack	: N/A
10	Pollution Control System	: N/A
11	Ladder & Platform	: N/A

FUEL CHARACTERISTICS DETAILS

1	Type of Fuel Used	: Producer Gas
2	Fuel Consumption	: N/A
3	Calorific Value of Fuel (Kcal/Kg)	: N/A



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ULR No.	: TC883921000000966P		

TEST REPORT

NABL Accredited Tests			
NABL Group: Atmospheric Pollution		Discipline: Chemical	
Parameter	Unit	Test Protocol	Result
Particulate Matter (PM)	mg/Nm ³	IS 11255(Part 1):1985; RA 2014	81
Oxides of Nitrogen (NO _x)	mg/Nm ³	IS 11255 (Part-7) 1985	<40
Flue Gas Temperature	°C	IS 11255 (Part 3): 2008; RA 2018	170
Barometric Pressure	mmHg	IS 11255 (Part 3): 2008; RA 2018	747
Velocity of Flue Gas	m/sec	IS 11255 (Part 3): 2008; RA 2018	7.56
Quantity of Gas Flow	Nm ³ /hr	IS 11255 (Part 3): 2008; RA 2018	5072

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PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)

Email: info@elespl.com ; eles.ranchi@gmail.com

GST NO:- 20AAECE9713D124 | : 0651-2290103, 9931289451

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TEST REPORT OF FLUE GAS EMISSION QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5470	Report Release Date	: 29.12.2021
ULR No.	: TC88392100000966P		

TEST REPORT

Parameter	Unit	Test Protocol	Result
Sulphur Di-Oxide (SO ₂)	mg/Nm ³	USEPA 6A	53


Authorized Signatory
SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.

****End of Report****


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

Page 3 of 3

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PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)
Email: info@elespl.co.in; eles.ranchi@gmail.com
Website : www.elespl.co.in
GST NO:- 20AAECE9713D1Z4 ☎ : 0651-2290103, 9931289451

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TEST REPORT OF NOISE QUALITY MONITORING

Test Report No. : ELES/RNC/2021/5467	Report Release Date : 29.12.2021
ULR No. : TC883921000000963F	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Mongia Steel Limited	Sample Date	: 22.12.2021 to 23.12.2021
Address	: PO-Burhiadih, Tundi Road, Giridih-815302	Sampling Received Date	: 25.12.2021
Plant Status	: Operational	Type of Sample	: Ambient Noise
		Sampling procedure	: ELES/DOC/SMPL/03
		Sample Drawn By	: ELES Pvt. Ltd.
		Period of Analysis	: 25.12.2021 to 29.12.2021

METEOROLOGICAL INFORMATION				
1	Average Temperature (°C)	: 23	2 Barometric Pressure (mmHg)	: 749
3	Relative Humidity (%)	: 54	4 Weather Condition	: Clear
5	NABL Group	: Atmospheric Pollution	6 Discipline	: Chemical

TEST REPORT

Location	Unit	Test Protocol	Result				Regulatory Limit
			Time	L _{Max}	L _{Min}	L _{eq}	
Near Main Entry Room	dB(A)	IS 9989:1981, RA 2001	Day Time	67.1	62.2	65	75 dB(A) Day Time & 70 dB(A) Night Time
Sample ID: ELES/RNC/2021/AN/1382			Night Time	58.3	48.0	54	
Latitude:24°09'30.97"N			Longitude:86°19'41.55"E				
Near Control Room	dB(A)	IS 9989:1981, RA 2001	Day Time	70.9	60.1	66	
Sample ID: ELES/RNC/2021/AN/1383			Night Time	60.1	44.7	56	
Latitude:24°09'29.58"N			Longitude:86°19'30.83"E				

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PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)

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

Website : www.elespl.co.in

GST NO:- 20AAECE9713D1Z4 C : 0651-2290103, 9931289451

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TEST REPORT OF NOISE QUALITY MONITORING

Test Report No. : ELES/RNC/2021/5467	Report Release Date : 26.10.2021
ULR No. : TC883921000000963F	

TEST REPORT

Location	Unit	Test Protocol	Result			Regulatory Limit	
			Time	L _{Max}	L _{Min}		L _{eq}
Beside Store Room (Near Rolling Mill)	dB(A)	IS 9989:1981, RA 2001	Day Time	69.3	68.3	67	75 dB(A) Day Time & 70 dB(A) Night Time
Sample ID: ELES/RNC/2021/AN/1384			Night Time	63.3	49.9	58	
Latitude:24°09'36.97"N			Longitude:86°19'35.55"E				

Authorized Signatory
SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.

****End of Report****

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



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PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)

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

Website: www.elespl.co.in

GST NO:- 20AAECE9713D1Z4 ☎ : 0651-2290103, 9931289451

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TEST REPORT OF WORKZONE AIR QUALITY MONITORING

Test Report No.	: ELES/RNC/2021/5471	Report Release Date	: 29.12.2021
ULR No.	: TC883921000000967F		


CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Mongia Steel Limited	Sample Ref. No.	: ELES/RNC/2021/FA/1388
Address	: PO-Burhiadih, Tundi Road, Giridih-815302	Location	: Near Gasifier (10m Distance)
Plant Status	: Operational	Sampling Date	: 23.12.2021
Period of Analysis	: 25.12.2021 to 29.12.2021	Sample Received Date	: 25.12.2021
		Type of Sample	: Workzone/Fugitive Air
		Sampling Procedure	: ELES/DOC/SMPL/02
		Sample Drawn By	: ELES Pvt. Ltd.
		Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION

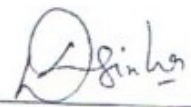
1	Average Temperature (°C)	: 23	2	Barometric Pressure (mmHg)	: 748
3	Relative Humidity (%)	: 60	4	Weather Condition	: Clear
5	NABL Group	: Atmospheric Pollution	6	Discipline	: Chemical

TEST REPORT

NABL Accredited Tests			
Parameter	Unit	Test Protocol	Result
Suspended Particulate Matter (SPM)	µg/m ³	IS:5182 (Part-4):1999	437


Authorized Signatory
SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.

****End of Report****


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

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PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)
Email: info@elespl.co.in; eles.ranchi@gmail.com
Website : www.elespl.co.in

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CIN: U74999JH2018PTC011125

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TEST REPORT OF WATER QUALITY

Test Report No. : ELES/RNC/2021/5468	Report Release Date : 29.12.2021
ULR No. : TC883921000000964P	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Mongia Steel Limited	Sample Ref. No.	: ELES/RNC/2021/GW/1385
Address	: PO-Burhiadih, Tundi Road, Giridih-815302	Sampling Date	: 23.12.2021
		Sample Received Date	: 25.12.2021
Plant Status	: Operational	Type of Sample	: Ground Water
		Location/Source of Sample	: Borewell, Near Store Room of Rolling Mill
Period of Analysis	: 25.12.2021 to 29.12.2021	Sampling Procedure	: ELES/DOC/SMPL/01
		Sample Collected By	: ELES Pvt.Ltd
		Sample Condition	: Sealed & Preserved

TEST REPORT

NABL Accredited Tests				Regulatory Limit as per IS:10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
Group : Water		Discipline : Chemical			
pH (at 22.4°C)	--	APHA 23 rd Edition 2017,4500-H ⁺ -B	7.52	6.5-8.5	6.5-8.5
Turbidity	NTU	APHA 23 rd Edition 2017,2130 B	0.06	1.0	5.0
Total Dissolved Solids (TDS)	mg/l	IS 3025 (Part-16):1984	518	500	2000
Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23):1986	211.1	200	600
Chloride as Cl	mg/l	IS 3025 (Part-32): 1988: RA 2014	63.6	250	1000
Total Hardness as CaCO ₃	mg/l	APHA 23 rd Edition 2017, 2340 C	217.3	200	600
Sulphate as SO ₄	mg/l	APHA 23 rd Edition 2017, 4500-SO ₄ -E	34.2	200	400
Group : Residue in Water		Discipline : Chemical			
Calcium as Ca	mg/l	APHA 23 rd Edition, 3500 B	67.9	75	200
Iron as Fe	mg/l	APHA 23 rd Edition, 3111 B&C	0.05	1.0	1.0

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PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA
HATIA, RANCHI-834003 (JHARKHAND)

Email: info@elespl.com ; eles.ranchi@gmail.com

GST NO:- 20AAECE9713D124 (: 0651-2290103, 9931289451



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TEST REPORT OF WATER QUALITY

Test Report No. : ELES/RNC/2021/5468	Report Release Date : 29.12.2021
ULR No. : TC883921000000964P	

TEST REPORT

Parameter	Unit	Test Protocol	Result	Regulatory Limit as per IS:10500:2012	
				Acceptable Limit	Permissible Limit
Magnesium as Mg	mg/l	APHA 23 rd Edition, 3111 B	11.6	30	100

Remarks: I. pH done at Lab.

Authorized Signatory
SANDIP BERA
SENIOR MANAGER
ELES PVT. LTD.

****End of Report****

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

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