

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

Certified by: -

Accredited by: - National Accreditation Board for Testing Laboratory (NABL) & Jharkhand State Pollution Control Board (JSPCB

An ISO 9001:2015 & BS OHSAS 18001 : 2007

ANALYTICAL TEST REPORT

Water Test Report Date of Issue 02nd April, 2021		URL(Unique Lab Report) No.	TC78132130000031P
		Report ID	YBAEEL-210324 -123714 - WW01
Sample Description	Waste Water	Job code / Ref. no.	YBAEEL/WA/L/C/Mar21/17
Type of Industries	Thermal Power Plant	Work Order No / Date	Via – Telephonic Order
Issued to : •	M/s Inland Power Limited Tonagatu, Gola, Dist. – Ramgarh, Jharkhand.		

Sampling date	26/03/2021		Mode of sample	Collection By YBAEEL Team		
Sampling Protocol	IS: 3025 (Part-1) 1987, R-2003	Sample Code	210326 – WW – W	210326 – WW – W01	
Sampling Location	Final Effluent	<u> </u>	Sampling Source	Effluent Water	Effluent Water	
Sample pkg. Condition	Sealed Pack in	PP Bottle	Sample Quantit	3000 ml		
Meteorological cond.	W.C Clear		RH - 46 %	Temp. – 30°C		
*York allotted date	26/03/2021	Test started on	26/03/2021	Test completed on 31/03/	2021	

Test Result

SI	Parameter	Test Method	Units	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pН	7.68	5.5 -9.0
2.	Temperature*	IS 3025 (P-09):1984	oC	27.2	40
3.	Total suspended solids	IS 3025 (P-17):2012	mg/l	78.0	100
4.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	630.0	2100
5.	Chloride (as Ci)	IS 3025 (P-32):2003	mg/f	116.6	1000
6.	BOD	IS 3025 (P-44):2009	mg/l	12.8	30
7.	COD	IS 3025 (P-58):2006	mg/l	124.0	250
8.	Oil & Grease	IS 3025 (P-39):2003	mg/l	6.0	10
9.	Sulphate (as SO _{c2} -)	IS 3025 (P-24):2003	mg/l	14.9	1000
10.	Nitrogen (Nitrate)	APHA 4500 NO ₃ - (B) 23 rd edition 2017	mg/l	6.76	
11.	Phenois*	IS 3025 (P-43):1992	mg/l	0.74	1.0

"End of Test"

Remarks: -Samples Comply with the prescribed Specification as per IS:2490:1974

The parameters marked with * are not accredited by NABL.

Specific contractual notes: -

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- All disputes are subjected to the Ranchi Jurisdiction.
- ND not detected, DL detectable limit

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- Combignay	Andrew Zer	العالق المالية
Tested by	Checked by	Issued by
Prem Kumar	Brij Nandan Kumar	Umesh Das
Lab Analyst	In-Charge Pollution & Environment August	3 C TOTAL CONTINUE INC. INC. INC. INC. INC. INC. INC. INC.
		Page 1 of 1

Environmental ingineering uspanion Dhanbad Branch Office : -Jamshedpur

Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in



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ANALYTICAL TEST REPORT

	Water Test Report	URL(Unique Lab Report) NO.	TC78132110000076P	
Date of Issue	02 nd April, 2021	Report ID	YBAEEL-210324 -123714 -GW0	
Sample Description	Ground Water	Job code / Ref. no.	YBAEEL/WA/L/C/Mar21/15	
Type of Industries Thermal Power Plant		Work Order No./ Date	Via - Telephonic Order	
Issued to: - M/s Inland Power Limited Tonagatu, Gola, Dist Ramgarh, Jharkhand.				

Sampling date	26/03/2021		Mode of sample	Collection	By YBAE	EL Team
Sampling Protocol	IS: 3025 (Part-1) 1987, R-2003	Sample Code		210326 -	GW - W04
Sampling Location	Bayang Village		Sampling Source		Ground W	ater
Sample pkg. Condition	Sealed Pack in	PP Bottle	Sample Quantity	y	3000 mi	
Meteorological cond.	W.C Clear		RH – 46%		Temp 3	0 ₆ C
*York allotted date	26/03/2021	Test started on	26/03/2021	Test com	pleted on	31/03/2021

Test Result

SI	Parameter	Test Method	Units	Results	Limits
1.	pH value	IS 3025 (P-11):2002	рН	6.56	6.5-8.5
2.	Temperature	IS 3025 (P-09):1984	oC .	29.4	
3.	Colour	IS 3025 (P-04):1983	Hazen	<5	15, max
4.	Odour'	IS 3025 (P-05)		Agree.	Agreeable
5.	Turbidity	IS 3025 (P-10):2002	NTU	1.0	5, max
6.	Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	140.0	600, max
7.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	238.0	600, max
8.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	ND (DL 0.07)	-
9.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	448.0	2000, max
10.	Chloride (as CI)	IS 3025 (P-32):2003	mg/t	63.6	1000, max
11.	Fluoride (as F-)	APHA 4500 F-C 23rd edition 2017	mg/l	0.4	1.5, max
12.	Nitrate (as NO ₃ -)	APHA 4500 NO ₃ - (B) 23rd edition 2017	mg/l	42.2	45, max
13.	Arsenic (as As)	APHA 3114 B 23rd edition 2017	mg/l	ND (DL 0.003)	
14.	Calcium (as CaCO ₃)	IS 3025 (P-40): 2003	mg/l	210.0	-
15.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	ND (DL 0.01)	1.5, max
16.	Iron (as Fe)	APHA 3111 B 23rd edition 2017	mg/l	ND (DL 0.1)	0.3, max
17.	Magnesium (as CaCO ₃)	IS 3025 (P-46):2003	mg/l	28.0	
18.	Zinc (as Zn)	APHA 3111 B 23rd edition 2017	mg/l	ND (DL 0.1)	15, max
19.	Sulphate (as SO ₄ 2-)	IS 3025 (P-24):2003	mg/l	68.6	400, max

******End of Test*

:-Samples Comply with the prescribed Specification as per IS:10500:2012.

: The parameters marked with * are not accredited by NABL. Note Specific contractual notes: -

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- ND not detected, DL detectable limit

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Tested by	Checked by	Issued by
Prem Kumar	Mukesh Kumar Authorize	ed Signatory Umesh Das
Lab Analyst	Authorized Signatory Chemic	cal Section Technical Manager
	Yugantar Bha	arati Analytical & Page 1 of 1

Branch Office : -Jamshedpur Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in

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AMALYTICAL TEST REPORT

Water Test Report		URL (Unique Lab Report) No.	TC78132110000075P
Date of Issue	02 nd April, 2021	Report ID	YBAEEL-210324 -123714 -GW03
Sample Description	Ground Water	Job code / Ref. no.	YBAEEL/WA/L/C/Mar21/15
Type of Industries	Thermal Power Plant	Work Order No./ Date	Via - Telephonic Order
issued to : -	M/s Inland Power Limited Tonagatu, Gola, Dist. – Ramgarh, Jharkhand.		

Sampling date	26/03/2021		Mode of sample	Collection	By YBAEE	L Team
Sampling Protocol	IS: 3025 (Part-1) 1987, R-2003	Sample Code		210326 - (GW - W03
Sampling Location	Bariatu Village		Sampling Source	e .	Ground W	ater
Sample pkg. Condition	Sealed Pack in I	PP Bottle	Sample Quantit	у	3000 ml	
Meteorological cond.	W.C Clear		RH - 46%		Temp. – 3	0 ₀ C
	26/03/2021	Test started on	26/03/2021	Test compl	eted on	31/03/2021

Test Result

SI	Parameter	Test Method	Units	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pН	6.74	6.5-8.5
2.	Temperature	IS 3025 (P-09):1984	oC .	28.6	64
3.	Colour	IS 3025 (P-04):1983	Hazen	<5	15, max
4.	Odour	IS 3025 (P-05)		Agree.	Agreeable
5.	Turbidity	IS 3025 (P-10):2002	NTU	2.0	5, max
6.	Alkalinity (as CaCO ₂)	IS 3025 (P-23):2003	mg/l	174.0	600, max
7.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/f	430.0	600, max
8.	Chiorine Residual	IS 3025 (P-26):2003	mg/l	ND (DL 0.07)	
9.	Total dissolved solids	IS 3025 (P-16):2006	mg/t	722.0	2000, max
10.	Chloride (as CI)	IS 3025 (P-32):2003	mg/i	173.5	1000, max
11.	Fluoride (as F-)	APHA 4500 F-C 23rd edition 2017	mg/l	0.5	1.5, max
12.	Nitrate (as NO ₃ -)	APHA 4500 NO ₃ - (B) 23rd edition 2017	mg/l	22.5	45, max
13.	Arsenic (as As)	APHA 3114 B 23rd edition 2017	mg/l	ND (DL 0.003)	_
14.	Calcium (as CaCO ₃)	IS 3025 (P-40): 2003	mg/l	380.0	
15.	Copper (as Cu)	APHA 3111 B 23rd edition 2017	mg/l	ND (DL 0.01)	1.5, max
16.	iron (as Fe)	APHA 3111 B 23rd edition 2017	mg/f	ND (DL 0.1)	0.3, max
17.	Magnesium (as CaCO ₃)	IS 3025 (P-46):2003	mg/l	50.0	
18.	Zinc (as Zn)	APHA 3111 B 23rd edition 2017	mg/l	ND (DL 0.1)	15, max
19.	Sulphate (as SO ₄ ²)	IS 3025 (P-24):2003	mg/l	86.40	400, max

*****End of Test*****

Remarks :-Samples Comply with the prescribed Specification as per IS:10500:2012.

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Tested by	Checked by	Issued by
Prem Kumar	Mukesh Kumar	Umesh Das
Lab Analyst	Authorized Signatory Authorized	
	Chemica	Page 1 of 1

Branch Office: - Jamshedpur Dhanbad Environmental Environm

Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in TBVRheinland* ISO 9001:2015



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AMALYTICAL TEST REPORT

1	Water Test Report	URL(tinique Leb Report) NO.	TC78132110000073P	
Date of Issue	02 nd April, 2021	Report ID	YBAEEL-210324 -123714 -GW01	
Sample Description	Ground Water	Job code / Ref. no.	YBAEEL/WA/L/C/Mar21/15	
Type of Industries	Thermal Power Plant	Work Order No./ Date	Via – Telephonic Order	
Issued to : -	M/s Inland Power Limited Tonagatu, Gola, Dist. – Ramgarh, Jharkhand.			

Sampling date	26/03/2021		Mode of sample	Collection	By YBAEE	L Team
Sampling Protocol	IS: 3025 (Part-1) 1987, R-2003	Sample Code		210326 - 0	SW - W01
Sampling Location	Bamhi Village		Sampling Source	e ,	Ground W	ater
Sample pkg. Condition	Sealed Pack in	PP Bottle	Sample Quantity	1	3000 ml	
Meteorological cond.	W.C Clear		RH - 46%		Temp 30	№
"York allotted date	26/03/2021	Test started on	26/03/2021	Test com	pieted on	31/03/2021

Test Result

SI	Parameter	Test Method	Units	Results	Limits
1.	pH value	IS 3025 (P-11):2002	pН	6.72	6.5-8.5
2.	Temperature	IS 3025 (P-09):1984	٩Ĉ	29.2	-
3.	Colour	IS 3025 (P-04):1983	Hazen	<5	15, max
4.	Odour	IS 3025 (P-05)		Agree.	Agreeable
5.	Turbidity	IS 3025 (P-10):2002	NTU	1.0	5, max
6.	Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	140.0	600, max
7.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	134.0	600, max
8.	Chlorine Residual	IS 3025 (P-26):2003	mg/l	ND (DL 0.07)	
9.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	210.0	2000, max
10.	Chloride (as CI)	IS 3025 (P-32):2003	mg/l	5.78	1000, max
11.	Fluoride (as F-)	APHA 4500 F-C 23rd edition 2017	mg/f	0.8	1.5, max
12.	Nitrate (as NO ₃ -)	APHA 4500 NO ₃ - (B) 23rd edition 2017	mg/l	1.03	45, max
13.	Arsenic (as As)	APHA 3114 B 23rd edition 2017	mg/l	ND (DL 0.003)	••
14.	Calcium (as CaCO ₃)	IS 3025 (P-40): 2003	mg/l	120.0	-
15.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	ND (DL 0.01)	1.5, max
16.	Iron (as Fe)	APHA 3111 B 23rd edition 2017	mg/l	ND (DL 0.1)	0.3, max
17.	Magnesium (as CaCO ₃)	IS 3025 (P-46):2003	mg/i	14.0	-
18.	Zinc (as Zn)	APHA 3111 B 23rd edition 2017	rng/l	ND (DL 0.1)	15, max
19.	Sulphate (as SO ₄ ² -)	IS 3025 (P-24):2003	mg/l	10.4	400, max

End of Test***

Remarks :-Samples Comply with the prescribed Specification as per 15:10500:2012. . The parameters marked with * are not accredited by NABL. Note

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Tested by	Checked by	Issued by
Prem Kumar	Mukesh Kumar Autho	rized Signatory Umesh Das
Lab Analyst		midal Section Technical Manager
	Yugantar	Bharati Analytical & Page 1 of 1
		Englishment aborators

Branch Office : - Jamshedpur

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AMALYTICAL TEST REPORT

Atmosph	eric Pollution Tes	t Report		URL(Unique L	nb Report) No.	TC781321.	2000029	7P
Report Release Date	02 nd April, 2021			Report ID		YBAEEL- 2	10324 - 1	23714 - A01
Sample Description	Ambient Air Quali	ity (Core 2	Zone)	Job code/ Re	f. no.	YBAEELW	A/L/A/Ma	ır 21/52
Type of Industry	Thermal Power P	ant		Work Order I	lo/Date	Via - Telep	honic Or	der
Issue to	M/s inland Powe Tonagatu, Gola, Jharkhand.	Dist F		r		T		
Sampling Period	26/03/2021 - 27/0	3/2021		Mode of sam	pie collection	By YBAEE	L Team	
Sampling Protocol	IS:5182 and CPC	3 Air Man	ual Volume-1	(NAAQM/36/20	12-13)			
Sampling Locations	A. Switch	fard	B. Gu	ard Room	C. B(Sate .	D	. Main Gate
Meteorological Cond.	W.C Clea)r	RH %	- 46 %	Temo	30°C	W	D. M 41- O 11-
meteorological colle.	11.0. OICE		,		1			DNorth-South

D	T - 4 88 -4b - 4	11-14-		Sampling	Location		NAAQS
Parameters	Test Method	Units	Site A	Site B	Site C	Site D	(2009)
Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006	µg/m³	74.8	82.3	69.7	78.0	100
Particulate matter (PM _{2.5})	USEPA -40 CFR (PART 50) (50.7)	µg/m³	38.9	47.4	34.3	40.2	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2012	µg/m³	24.8	18.9	21.3	22.4	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2012	µg⁄m³	33.8	30.0	28.2	34.8	80
Carbon Monoxide (CO)*	IS:5182 (P-10) 1999 RA 2003	mg/m³	BDL (MDL 1.8)	BDL (MDL 1.8)	BDL (MDL 1.8)	BDL (MDL 1.8)	04

End of Report

Remarks	Samples Comply with the prescribed specification as per NAAQS 2009.
Abbreviation	MDL: Minimum detection limit, BDL: Below detection limit,
Note	The parameters marked with * are not accredited by NABL.
Specific contractual	All values are expressed in as unit.
notes	The results listed refer only to the tested sample and applicable parameter
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Tested by	Verified by Authori	zed Signatory Issued by
Amit Kumar Sinha	Hoi Nandan Kumar	LL A Dali Jon Umesti Vas
Lab Analyst	Section In-Charge	hersti nalyti Jacknical Manager
10	Environmental	Fhallessing Labolatory
Branch Office : Jamshedour	Dhanbad Hazariba	g Pakur
Brandt Oilloc . Carronoapa.		



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AMALYTICAL TEST REPORT

Atmosph	eric Pollution Tes	t Report		URL(Unique La	b Report) No.	TC78132	120000 <u>298P</u>
Report Release Date	02 nd April, 2021		-	Report ID		YBAEEL-	210324 - 123714 - A02
Sample Description	Ambient Air Qual	ity (Buffe	r Zone)	Job code/ Ref	. no.	YBAEELN	NAJLJAJMar 21/53
Type of Industry	Thermal Power P	iant		Work Order N	o / Date	Via - Tele	phonic Order
issue to	M/s Inland Pow Tonagatu, Gola Jharkhand.	, Di s t F				1	
Sampling Period	27/03/2021 - 28/0	3/2021		Mode of same	ole collection	By YBAE	EL Team
Sampling Protocol	IS:5182 and CPC	B Air Man	ual Volume-1(NAAQM/36/201	2-13)		
Sampling Locations	A. Bariatu	Village	B. Seneg	arha Village	C. Url	oa Village	D. Tonagatu Village
Meteorological Cond.	W.C Cle	3ď	RH %	6 - 48%	Temp	29°C	W.D North-South
Sample receipt Date	28/03/2021	Analysis	Started on	28/03/20	21 An	alysis compl	eted on 01/04/2021

			R POSTERS	Sampling	Location		NAAQS
Parameters	Test Method	Units	Site A	Site B	Site C	Site D	(2009)
Particulate matter (PM ₁₀)	IS:5182 (P-23) 2006	μg/m³	77.0	84.9	73.3	79.8	100
Particulate matter (PM _{2.5})	USEPA -40 CFR (PART 50) (50.7)	µg/m³	51.6	48.1	50.4	46.7	60
Sulphure Dioxide (SO ₂)	IS:5182 (P-2) 2001 RA 2012	μg/m³	16.5	14.2	17.7	15.3	80
Nitrogen Dioxide (NO ₂)	IS:5182 (P-6) 2006 RA 2012	μg/m³	27.4	25.4	29.1	33.8	80
Carbon Monoxide (CO)*	IS:5182 (P-10) 1999 RA 2003	mg/m	BDL (MDL 1.8)	BDL (MDL 1.8)	BDL (MDL 1.8)	BDL (MDL 1.8)	04

End of Report

Remarks	Samples Comply with the prescribed specification as per NAAQS 2009.
Abbreviation	MDL: Minimum detection limit, BDL: Below detection limit,
Note	The parameters marked with * are not accredited by NABL.
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	All disputes are subjected to the Ranchi Jurisdiction

Issued by Authorized Signatory Tested by Umesh Das Atmospharic Pollution Amit Kumar Sinha Dhandan h-Charge/ugarthae Dhare!! Analytica Walliam Manager Branch Office Jamshedpur Main Office: Namkum Post Office, Sidroul-Runements 103 0, Sharkhand

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AMALYTICAL TEST REPORT

Atmosp	heric Pollution Test R	teport	URL@inique Lab R	sport) NO.	TC7813212000	
Report Release Date	02 nd April, 2021		Report ID		YBAEEL-21032	<u>4 -123714 - S</u> 1
Sample Description	Stationary Source En	nission	Job code/ Ref. n	0.	YBAEELWA/L/	A/Mar 21/52
Type of Industry	Thermal Power Plant		Work Order No.	Date	Via – Telephoni	c Order
	M/s Inland Power L Tonagatu, Gola, Di Jharkhand.				SEA	A VDACEI
	Tonagatu, Gola, Di		Mode of sample	collection	Sampling team	of YBAEEL
	Tonagatu, Gola, Dis Jharkhand. 27th March, 2021		<u> </u>	collection	Sampling team	of YBAEEL
Sampling Period Sampling Protocol Meteorological Cond.	Tonagatu, Gola, Dis Jharkhand. 27th March, 2021	st. – Ramgarh,	<u> </u>	collection .	Sampling team Temp 31°C	of YBAEEL

As observed while sampling		As reported by customer		
Location Sampling port hole		Type of fuel Used	Coal	
Platform	Permanent	Quantity of Fuel Used	1400 - 1500 MT/Day.	
Stack Description (Shape & Material)	Circular / RCC	Total production Capacity	63 MW	
Sampling port	Available	Height of Stack from ground level	96 mtr.	
Stack Identification	Stack - 01	Inner Diameter of Stack	3.3 mtr.	
Height of port hole from Ground level	40 mtr.	Pollution Controlling Device	ESP (for PM)	

"Test Results "

Si	Parameter s	Test Method	Units	Results	Limits
1	Stack gas Temperature	IS 11255 (Part 3)2008	k	398.0	-
1. 2.	Stack gas Velocity	IS 11255 (Part 3)2008	m/s	13.4	-
3.	Volumetric Flow Rate	IS 11255 (Part 3)2008	Nm³/hr	298293.5	
3. 3.	Particulate Matter (PM) (at 6% O ₂)	IS 11255 (Part 1)2009	mg/Nm³	42.6	50
3. 4.	Sulphure Dioxide (SO ₂) (at 6% O ₂)	IS 11255 (Part 2)2009	mg/Nm³	142.8	600
5.	Oxide of Nitrogen (as NO _x) (at 6% O ₂)	IS 11255 (Part 7)2005 RA 2012	mg/Nm³	72.4	450
6.	Carbon Monoxide (as CO)	IS 13270 : 1992 RA 2009	%	<0.2 %	
7.	Mercury* (as Hg)	Lats/80/2013-14	mg/Nm³	<0.003 ppm	0.03

Emission Rate

E111133101	i were			4.0	
	Particulate Matter (PM)	IS 11255 (Part 1)2009	Kg/hr	12.7	-
			Ka/hr	42.6	
2.	Sulphure Dioxide (SO ₂)	IS 11255 (Part 2)2009		34.6	
2	Oxide of Nitrogen (as NO _x)	IS 11255 (Part 7)2005 RA 2012	Kg/hr_	21.6	<u> </u>
	Ovince of Manager (as 100)	**End of Report**			

	The state of the s					
Remarks	Samples Compty with the prescribed specification as per Thermal Power Plant.					
Abbreviation	MOL Migimum detection limit, BDL. Below detection limit,					
Note	The parameters marked with * are not accredited by NABL.					
Specific contractual	All valves are expressed in as unit					
notes	The same testing only to the tested sample and applicable parameter.					
110123	The first state of the read for advertising or as evidence in any court or law					
	The complex collected shall be destroyed effer 15 days from the date of issue of the destricted unious speciments.					
	The liebility of the laboratory is limited to the invoiced amount					
	Control to the Denothic hypertiction					
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Authorized Signatory Umesh Das Brij Nandan Kumar Amit Kumar Sinha Atmospharic Pollutidechnical Manager Section In-charge Lab Analyst Yugantar Bharati Analytical &

Dhanbad



Environmental Engineering Laboratory Hazaribag

Branch Office : -Jamshedpur Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand

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AMALYTICAL TEST REPORT

Sampling Period Sampling Protocol Meteorological Cond.	IS 9876:1981 (RA 2007) & CPCB Me Temp 30°C		.50 (E) dated 11/01/ 6 - 46%	2010	W.C Clear	
				2010		BIII
Sampling Period						
	26/03/2021 – 27/03/2021 Mode of sample collection By YBAEEL Team				am	
Issue to	M/s Inland Power Limited Tonagatu, Gola, Dist. – Ramgart Jharkhand.	١,				
Type of industry	Thermal Power Plant	Thermal Power Plant Work Order No./ Date Via - Telephonic Order				
Sample Description	Ambient Noise		Job code/ Ref. no		BAEELWAILIA	
Report Release Date	02 nd April, 2021		Report ID		BAEEL-210324 -	
	pheric Pollution Test Report		URL@nique Lab Re	 	C78132120000	

"Teet Desuits"

		10001000				<u> </u>
SI.NO.	Locations	Parameters	Units	Day Time	Night Time	Limits
1.	Near Main Gate	Leq	dB (A)	67.8	59.64	
2.	Near Weight Bridge	Leq	dB (A)	69.2	63.0	
3.	Near Cooling Tower	Leq	dB (A)	74.5	67.5	Day Time -75 Night Time-70
4.	Near T G Building	Leq	dB (A)	71.3	63.8	
5.	Near Hostel	Leq	dB (A)	56.1	51.2	

^{**}End of Report**

- Day time shall mean from 6.00 a.m. to 10.00 p.m.
- Night time shall mean from 10.00 p.m. to 6.00 a.m.
- 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

Remarks	Samples Comply with the prescribed specification as per the noise pollution (Regulation & Control) Rules, 2000
Abbreviation	MDL: Minimum detection limit, BDL: Below detection limit,
Note	The parameters marked with * are not accredited by NABL.
Specific contractual	All values are expressed in as unit
notes	The requite listed refer only to the tested sample and applicable parameter.
	This report in full or in part, shall not be used for advertising or as evidence in any court of law
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	The liability of the laboratory is limited to the invoiced amount
ļ	All disordes are subjected to the Ranchi Jurisdiction

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Tested by	Verified by	Issued by
Amit Kumar Sinha	Brij Nandan Kumar Authori	ed Signatory Umesh Das aric Polluti Wethnical Manager
Lab Analyst	Section In-Charge Atmosp	harati Analytical &

Yugantar Bharan Analyti Envirbiazaribagenginaering qapakilpry Dhanbad Branch Office : - Jamshedpur

Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in





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An ISO 9001:2015 & BS OHSAS 18001 : 2007

Certificate No. - TC 781

ANALYTICAL TEST REPORT

1	Water Test Report	URL(Unique Lab Report) No.	TC78132110000072P
Date of Issue	02 nd April, 2021	Report ID	YBAEEL-210324 -123714 - DW02
Sample Description	Drinking Water	Job code / Ref. no.	YBAEEL/WA/L/C/Mar21/16
Type of Industries	Thermal Power Plant	Work Order No./ Date	Via - Telephonic Order
Issued to : -	M/s Inland Power Limited Tonagatu, Gola, Dist. – Ramgarh, Jharkhand.		
Sampling date	26/03/2021	Mode of sample Collection	By YBAEEL Team
Certification Certification		0	240226 DW W02

Sampling date	26/03/2021		Mode of sample Co	lection E	By YBAEE	L Team	
Sampling Protocol	IS: 3025 (Part-1) 1987, R-2003				2	210326 - DW - W02	
Sampling Location	Near Stack		Sampling Source	. [Orinking V	Vater	
Sample pkg. Condition	Sealed Pack in I	P Bottle	Sample Quantity	3	1000 ml		
Meteorological cond.	W.C Clear		RH - 46%	1	emp. – 3	PC	
York allotted date	26/03/2021	Test started on	26/03/2021	Test comple	ted on	31/03/2021	

Test Result

SI	Parameter	Test Method	Units	Results	Limits
1.	pH value	IS 3025 (P-11):2002	рН	6.74	6.5-8.5
2.	Temperature	IS 3025 (P-09)	∘c	28.4	<u></u>
3.	Colour	IS 3025 (P-04):1983	Hazen	<5	15, max
4.	Odour*	IS 3025 (P-05):	-	Agree.	Agreeable
5.	Turbidity	IS 3025 (P-10):2002	NTU	1.0	5, max
6.	Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	186.0	600, max
7.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	280.0	600, max
8.	Conductivity	IS 3025 (P-14):2013	µs/cm	658.0	<u></u>
9.	Total dissolved solids	IS 3025 (P-16):2006	mg/l	398.0	2000, max
10.	Chloride (as CI)	IS 3025 (P-32):2003	mg/l	27.0	1000, max
11.	Ammonia (free)*	IS 3025 (P-34):2003	mg/l	ND (DL 0.05)	
12.	Fluoride (as F-)	APHA 4500 F-C 23rd edition 2017	mg/l	0.34	1.5, max
13.	Nitrate (as NO ₃ -)	APHA 4500 NO ₃ - (B) 23 rd edition 2017	mg/l	4.0	45, max
14.	Aluminium (as Al)*	IS 3025 (P-55)	mg/l	ND (DL 0.001)	0.03-0.2
15.	Arsenic (as As)	APHA 3114 B 23rd edition 2017	mg/i	ND (DL 0.003)	<u></u>
16.	Calcium (as CaCO ₃)	IS 3025 (P-40): 2003	mg/l	225.0	
17.	Chromium (as Cr)	APHA 3111 B 23rd edition 2017	mg/l	ND (DL 0.02)	
18.	Copper (as Cu)	APHA 3111 B 23rd edition 2017	mg/l	ND (DL 0.01)	1.5, max

Tested by Checked by Issued by
Prem Kumar Mukesh Kumar Authorized Signatory Technical Manager
Lab Analyst Authorized Signatory Chemical Section Page 1 of 2

Yugantar Bhar ' Analytical &

Branch Office : - Jamshedpur

Dhanbad Environmental House Fring Laborate Kur

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ANALYTICAL TISSI REPORT

1	Water Test Report	URL(Unique Lab Report) NO.	TC78132110000072P
Date of Issue	02 nd April, 2021	Report ID	YBAEEL-210324 -123714 - DW02
Sample Description	Drinking Water	Job code / Ref. no.	YBAEEL/WA/LIC/Mar21/16
Type of Industries	Thermal Power Plant	Work Order No./ Date	Via - Telephonic Order
issued to : •	M/s Inland Power Limited Tonagatu, Gola, Dist. – Ramgarh, Jharkhand.		

Sampling date	26/03/2021		Mode of sample Colle	ection By YBAEEL Team
Sampling Protocol	IS: 3025 (Part-1) 1987, R-2003	Sample Code	210326 - DW - W02
Sampling Location	Near Stack	······································	Sampling Source	. Drinking Water
Sample pkg. Condition	Sealed Pack in	PP Bottle	Sample Quantity	3000 mi
Meteorological cond.	W.C Clear		RH 46%	Temp 30°C
"York allotted date	26/03/2021	Test started on	26/03/2021	Test completed on 31/03/2021

Test Result

19.	Iron (as Fe)	APHA 3111 B 23 rd edition 2017	mg/l	0.13	0.3, max
20.	Lead (as Pb)	APHA 3111 B 23rd edition 2017	mg/l	ND (DL 0.05)	0.01, max
21.	Magnesium (as CaCO ₃)	IS 3025 (P-46):2003	mg/l	54.7	_
22.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	0.20	15, max
23.	Cadmium (as Cd)	APHA 3111 B 23rd edition 2017	mg/l	ND (DL 0.01)	0.003, max
24.	Suiphate (as SO ₄ ² -)	IS 3025 (P-24):2003	mg/l	82.4	400, max

******End of Test*****

Remarks: -Samples Compty with the prescribed Specification as per IS:10500;2012.

: The parameters marked with * are not accredited by NABL.

Specific contractual notes: -

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- The liability of the laboratory is limited to the invoiced amount.
- All disputes are subjected to the Ranchi Jurisdiction.
- ND not detected, DL detectable limit

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Tested by	Checked by	Issued by
Prem Kumar	Mukesh Kumar	horized Signatory Technical Manager
Lab Analyst	Authorized Signatory	L. L. Castion
Lab Analyst		hemical Section Page 2 of 2
	Yugant Yugant	ar Bharati Analytical & Page 2 of 2

Dhanbad Branch Office : - Jamshedpur Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph: 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in

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AMALYTICAL TEST REPORT

	Water Test Report	URL (Unique Lab Report) No.	TC78132110000071P
Date of Issue 02nd April, 2021		Report ID	YBAEEL-210324 -123714 - DW01
Sample Description	Drinking Water	Job code / Ref. no.	YBAEELWA/L/C/Mar21/16
Type of Industries	Thermal Power Plant	Work Order No./ Date	Via – Telephonic Order
Issued to : -	M/s Inland Power Limited Tonagatu, Gola, Dist. – Ramgarh, Jharkhand.		
Sampling date	26/03/2021	Mode of sample Collection	By YBAEEL Team

Sampling date	26/03/2021	•	Mode of sample	Collection	By YBAE	L Team
Sampling Protocol	IS: 3025 (Part-1) 1987, R-2003	Sample Code		210326 - 1	OW - W01
Sampling Location	Canteen		Sampling Source		Drinking V	Vater
Sample pkg. Condition	Sealed Pack in	PP Bottle	Sample Quantity		3000 ml	
Meteorological cond.	W.C Clear		RH – 46%		Temp. – 3	0ºC
- Vork aliotted date	26/03/2021	Test started on	26/03/2021	Test com	pleted on	31/03/2021

Test Result

SI	Parameter	Test Method	Units	Results	Limits
1.	pH value	IS 3025 (P-11):2002	рН	6.72	6.5-8.5
2.	Temperature	IS 3025 (P-09)	oc	28.6	
3.	Colour	IS 3025 (P-04):1983	Hazen	<5	15, max
4.	Odour'	IS 3025 (P-05):	_	Agree.	Agreeable
 5.	Turbidity	IS 3025 (P-10):2002	NTU	1.0	5, max
 6.	Alkalinity (as CaCO ₃)	IS 3025 (P-23):2003	mg/l	58.0	600, max
7.	Total Hardness (as CaCO ₃)	IS 3025 (P-21):2009	mg/l	66.0	600, max
8.	Conductivity	IS 3025 (P-14):2013	µs/cm	160.0	
9.	Total dissolved solids	IS 3025 (P-16):2006	mg/t	102.0	2000, max
10.	Chloride (as CI)	IS 3025 (P-32):2003	mg/l	3.85	1000, max
11.	Ammonia (free)*	IS 3025 (P-34):2003	mg/l	ND (DL 0.05)	
12.	Fluoride (as F-)	APHA 4500 F-C 23 rd edition 2017	mg/l	0.32	1.5, max
13.	Nitrate (as NO ₃ -)	APHA 4500 NO ₃ - (B) 23rd edition 2017	mg/l	3.8	45, max
14.	Aluminium (as Ai)	IS 3025 (P-55)	mg/l	ND (DL 0.001)	0.03-0.2
15.	Arsenic (as As)	APHA 3114 B 23rd edition 2017	mg/l	ND (DL 0.003)	
16.	Calcium (as CaCO ₃)	IS 3025 (P-40): 2003	mg/l	55.0	
17.	Chromium (as Cr)	APHA 3111 B 23 rd edition 2017	mg/l	ND (DL 0.02)	
18.	Copper (as Cu)	APHA 3111 B 23 rd edition 2017	mg/l	ND (DL 0.01)	1.5, max

Sumon Issued by Checked by Tested by Umesh Das Mukesh Kumar Authorized Signatory
Chemical Section Prem Kumar Technical Manager **Authorized Signatory** Lab Analyst Page 1 of 2 Yugantar Bharati Analytical &

Environing real gearing Laborate Akur Dhanbad Branch Office : -Jamshedpur

Main Office: Namkum Post Office, Sidroul, Ranchi - 834010, Jharkhand Ph : 098351-97960, 098357-86677, Email - ybaeel@gmail.com, Web - https://ybaeel.in ISO 9001:2015 BS OHSAS 18001:2007



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Certified by: -ANALYTICAL TEST REPORT

		Made of semple Collection	Dy VRAFEI Toam
Issued to : -	M/s Inland Power Limited Tonagatu, Gola, Dist. – Ramgarh, Jharkhand.		
Type of industries	Thermal Power Plant	Work Order No./ Date	Via – Telephonic Order
Sample Description	Drinking Water	Job code / Ref. no.	YBAEELWA/L/C/Mar21/16
Date of Issue	02 nd April, 2021	Report ID	YBAEEL-210324 -123714 - DW01
	Water Test Report	URL (Unique Lab Report) NO.	TC78132110000071P

		_	A 10 .45	LOW VDACE	-1 Taa
26/03/2021		Mode of sample	Mode of sample Collection		
	1987, R-2003	Sample Code		210326 - [DW - W01
		Sampling Source	 18	Drinking V	Nater
				3000 ml	
Sealed Pack in h	'P Bottle		<u>'</u>		MC.
W.C Clear		RH – 46%			
26/03/2021	Test started on	26/03/2021	Test com	ipleted on	31/03/2021
	Canteen Sealed Pack in F	IS: 3025 (Part-1) 1987, R-2003 Canteen Sealed Pack in PP Bottle W.C Clear 26/03/2021 Test started on	S : 3025 (Part-1) 1987, R-2003 Sample Code Canteen	S : 3025 (Part-1) 1987, R-2003 Sample Code Canteen	S : 3025 (Part-1) 1987, R-2003 Sample Code 210326 - Canteen Sampling Source Drinking Note Sealed Pack in PP Bottle Sample Quantity 3000 ml W.C Clear RH - 46% Temp 3

	Resu	t.
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 19.	Iron (as Fe)	APHA 3111 B 23rd edition 2017	mg/l	0.22	0.3, max
20.	Lead (as Pb)	APHA 3111 B 23rd edition 2017	mg/l	ND (DL 0.05)	0.01, max
21.	Magnesium (as CaCO ₃)	IS 3025 (P-46):2003	mg/l	11.0	
22.	Zinc (as Zn)	APHA 3111 B 23 rd edition 2017	mg/l	0.18	15, max
23.	Cadmium (as Cd)	APHA 3111 B 23 rd edition 2017	mg/l	ND (DL 0.01)	0.003, max
23. 24.	Suiphate (as SO ₄ ²⁻)	IS 3025 (P-24):2003	mg/l	5.2	400, max

*End of Test**

Remarks: -Samples Comply with the prescribed Specification as per IS:10500:2012.

: The parameters marked with * are not accredited by NABL. Note

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- ND not detected, DL detectable limit

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- Intumary	June 19: (1.21	Issued by
Tested by	Checked by Mukesh Kumar	Umesh Das
Prem Kumar	Authorize	d Signatory Technical Manager
Lab Analyst	Chemic Vicantar Bh	lat Section Page 2 of 2
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Branch Office : -Jamshedpur Dhanbad

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