

Ref. No- IPL/JSPCB/2019-20/22 6

Dated-31.10.2019

To,

The Member Secretary

Jharkhand State Pollution Control Boaard TA, Building, HEC Dhurwa, Ranchi.

Sub: Submission of Form V Environmental Statement for the year 2018-19

Dear Sir

Enclosed please find herewith the captioned statement for the year 2018-19 for your record and compliance of current CTO & CTE.

Thanking you, Yours Faithfully For Inland Power Limited

S. N. Sinha
DGM (Coml)

Copy To- 1. Scientist D, Regional office Ranchi, MOEF

2. Regional Officer, JSPCB, Hazaribagh

Registered Office: P 221/2, Strand Bank Road Kolkata - 700001 Corporate Office (ARICAN) 3A, Auckland Place, Sult No. 5A 5th Floor, Kolkata - 700 017

t: +91 33 4012 4150 t: +91 33 2283 1917 Plant Office:

Inland Power Ltd.

Jihland Nagar, Village - Tonagatu, Gola Charu Ramgarh Bypass Tonagatu - 829 110 Jharkhand, India. Ranchi Office: C/218 Road No. 2, Ashok Na Ranchi - 864 002 t: +91.65 2240532

W inlandnower in JE info@inlandnow

FORM- V

Environmental Statement for the Financial Year ending 31st March 2019

PART- A

(i)	Name and Address of the Owner/ Occupier of the industry operation or process	Mr. Giriraj Kumar Jhawar Inland Power Ltd. Inland Nagar, Vill: Tonagtu, P.O: Saram, Gola Dist: Ramgarh, Jharkhand.
(ii)	Industry category	Large
(iii)	Production capacity	63MW
(iv)	Year of establishment	2014
(v)	Date of last Environmental statement submitted	5 th Environmental Statement. Company has started the commercial production on 21.05.2014.

PART - B

Water and Raw Material Consumption

(1) Water Consumption m³ / day: for FY(18-19)

Process : 133 m³/ day

Cooling

: 3056 m³/ day

Domestic

: 147 m³/day

Name Of the Products	Water consumption per unit of product output (M3/MWH)	
	Previous Year(17-18)	Current FY(18-19)
Electricity	3.36	3.44

(2) Raw Material consumption

Name of the Raw Materials	Name of Product	Consumption of Raw Material per unit of output(Ton/MWH)	
Materials		Previous Year(17-18)	Current Year (18-19)
Coal	Electricity	0.343	0.243
W.Reject	Electricity	0.731	0.738
Dolochar	Electricity	0.018	0.00
HSD(Liter\MWH)	Electricity	0.936	0.972

PART – C Pollution discharge to Environment

1.Water

Plant is running on the concept of Zero Liquid Discharge concept. So, there is no discharge of water to outside of plant boundary. All the waste water after treatment has been utilized in the plantation, dust separation and brick plant within the plant premises. In the Year 18-19 IPL has utilized 13,79,110 KL of water from the Senegarha Nala.

Quality of surface and ground water are regularly on quarterly basis monitored by NABL accreted lab. (Reports are attached herewith on Annexure(i).

2. Air (Stack)

Inland power has installed a 95 mtrs. high stack and ESP to control the emission of particulate matters under the limit of 50 mg/nm³.

We have also installed Continues Emission Monitoring System for PM, SO₂ and NO_x.

We have also done the third-party monitoring for Core and Buffer Zone on quarterly basis by NABL approved lab. (Reports are attached herewith on Annexure(ii).

Concentration of Discharges(Stack)

Pollutants	Average Concentration of pollutants in discharges(mass/volume) mg/Nm³	Remarks
PM	38.02	
SO₂	32	Within
NO _x	53	Limit
со	19	Linne
Hg	0.002	

3. Air (Ambient)(Core Zone)- Yearly Average(Annexure(iii))

Parameters	Site A	Site B	Site C	Site D	Remarks
PM 10(µg/m³)	81.8	74.89	70.49	82.58	
PM 2.5(µg/m ³)	54.58	52.5	50.0	56.25	Within Limit
SO₂(µg/m³)	11.36	14.77	13.64	15.91	
NO _x (µg/m³)	18.53	20.21	21.5	19.37	

^{*}Monitored by Yugantar Bharati, NABL Accredited Lab.

PART - D

Hazardous Wastes

Hazardous Waste	Previous Year(17-18)	Current Year (18-19)
From Process	1260 liters	650 liters
-Used Lub. Oil		

Total waste oil has been utilized for the Boller light-up.

<u>PART – E</u> Solid Waste

A. Solid Waste Generation:

Solid Waste	Previous Year (17- 18)	Current Year (18-19)
	Quantity(MT/Annum)	Quantity(MT/Annum)
OB		5252
· · Total Ash Generated	233982	214236

B. Solid Waste Disposal:

		Previous Year (17-18)	Current Year (18-19)
1. Re-ut	ilized within the unit	Quantity(MT/Annum)	Quantity(MT/Annum)
i)	Road Construction	Nil	NIL
ii)	In house bricks	3144	13098
	manufacturing Plant		
2. Dispo	sed outside plant		·
i)	Supplied to other	5105	72917
	brick manufacturer		
ii)	For backfilling in	NIL	NIL
	abandoned mines		·
iii)	Cement Plant	3132	51189
iv)	Highway (Ring	271925	61788
	Road)Construction		. <u></u>
v)	Road Construction,	26374	NIL
·	Charhi		
3. Balan	ce yet to disposed off		20496

PART - F

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

- 1. The hazardous waste: 650 liters of used lube oil was generated and stored in barrels at site as per norms and has been utilized in the boiler during the lightup.
- 2. Solid waste: 214236 tones of fly ash and bottom ash was generated and utilized by in house/outside bricks manufacturing plant, Road construction.

3. Fly ash Heavy Metal Report: (Annexure(Iv)

Tested Parameters	Unit	Bottom Ash	Fly Ash
Arsenic	ppm	< 0.01	< 0.01
Mercury	ppm	< 0.01	< 0.01
Chromium	ppm	0.07	0.04
Lead	ppm	0.05	0.04
Cadmium	ppm	0.04	0.03
Copper	ppm	0.04	0.03
Nickel	ppm	0.03	0.02
Selenium	ppm	0.02	0.01
Zinc	ppm ·	0.74	0.53
Unborn Carbon	%	1.14	0.14

PART - G

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

Domestic water is being treated through soak pit and has re-utilized in the plantation and gardening purposes.

Process water is being treated through n-pits and being re-utilized in brick plant, dust separations etc.

The above process has saved the utilization fresh water and resulting conservation of natural resource like water.

We are utilizing Washery Reject and Dolochar as fuel for the generation of electricity that conserve the coal which is a limited natural resource.

We have installed fly ash bricks manufacturing plant of 80000 brick per day capacity which conserved the top soil of agriculture fields. Utilization of fly ash bricks in comparison of conventional red bricks also helps in reduction of carbon footprint of atmosphere.

Details of expenditure for abetment of pollution are as under and which costs Rs. 0.03\kWh of gross generation.

	DETAIL EXPENSES INCURRED FOR THE PERIOD FROM 01/04/18 TO 31/03/19				
SI.	Particular	Amount (Rs.)			
A	Any capital expenditure for purchase of pollution control equipment.	263,388.00			
В	O&M expenses on ESP and bag filters.	115,404.00			
C	O&M Expenses for online monitoring equipments.	97,191.00			
D	Plantation	278,178.00			
E	Ash disposal expenses	11,393,491.00			
F	Expenses for monitoring of pollution	197,237.00			
<u>. </u>	T G. TOTAL AMOUNT IN Rs.	12,344,889.00			

PART - H

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

Following Pollution control equipments has been installed to control the pollution:

A. **Equipment Details:**

SN	EQUIPMENT/SYSTEM	LOCATION	DESCRIPTION
1	Silencer	Outside TG Building	Noise Control
2	Turbine Enclosure	Turbine Building, 11 Mtr. Level	Noise Control 90 dBA at 1 Mtr. Distance
3	Electro Static Precipitator	ESP Double Pass, Five Field Each Between Boiler and Chimney	<50 mg/ Nm³ With 8 Out of 10 field in service
4	SPM Analyser	ID Fan outlet Duct before Stack	<50 mg/ Nm³ With 8 Out of 10 field in service
5	Dust Extraction System 1	Crusher House	35000 M ₃ /hr, <50 mg/ Nm ³
6	Dust Extraction System 1	Screening House	35000 M³/hr, <50 mg/ Nm³
7	Dust Extraction System 1	Bunker Floor	35000 M ₃ /hr, <50 mg/ Nm ³
8	Bed Ash Silo 1	Near CHP	700 M³
9	Fly Ash Silo 1 & 2	Near CHP	1300 M³ Each
10	Bag Filter Fly Ash Silo	Top of Fly Ash Silo	2200 M ₃ /hr, <50 mg/ Nm ³
11	Bag Filter Bed Ash Silo	Top of Bed Ash Silo	1100 M ₃ /hr, <50 mg/ Nm ³
12	Bag Filter Bunker Bed Material	Bunker	1100 M ₃ /hr, <50 mg/ Nm ³

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4	SPM Analyser	ID Fan outlet Duct before Stack	<50 mg/ Nm³ With 8 Out of 10 field in service
5	Dust Extraction System 1	Crusher House	35000 M³/hr, <50 mg/ Nm³
6	Dust Extraction System 1	Screening House	35000 M³/hr, <50 mg/ Nm³
7	Dust Extraction System 1	Bunker Floor	35000 M ₃ /hr, <50 mg/ Nm ³
8	Bed Ash Silo 1	Near CHP	700 M³
9	Fly Ash Silo 1 & 2	Near CHP	1300 M³ Each
10	Bag Filter Fly Ash Silo	Top of Fly Ash Silo	2200 M ₃ /hr, <50 mg/ Nm ³
11	Bag Filter Bed Ash Silo	Top of Bed Ash Silo	1100 M ₃ /hr, <50 mg/ Nm ³
12	Bag Filter Bunker Bed Material	Bunker	1100 M ₃ /hr, <50 mg/ Nm ³

13	Chimney	After ESP	Height of 96 Mtrs and Diameter Ø 4.5 Mtr.
14	Neutralisation Pit	Outside DM plant	45 M³
15.	Water Sprinkler	Coal stock yard	
16.	Water Tanker with sprayer	For Water Sprinkling at Road side.	

<u> PART – I</u>

Any other particular for improving the quality of the environment

- 1. Regular check-ups and timely Maintenance of pollution control equipments.
- 2. Regular sprinkling of water on the roads outside the plant area also for controlling of fugitive dust.
- 3. Transportation of material by the covered trucks.
- 4. Maintaining Zero discharge.

Annexure.....(ii)

Monitoring Report March'2019

- 1. Stack Monitoring Test Report
- 2. Water Test Report Buffer Zone 4 Samples.
- 3. Water Test Report Core Zone 2 Samples.
- 4. Ambient Air Buffer Zone 4 Samples
- 5. Ambient Air Core Zone 4 Samples
- 6. Noise Monitoring Report 4 Sites.
- 7. Fly ash Heavy Metal Test Report
- 8. Bottom Ash Heavy Metal Test Report.

Monitoring Report September'2018

- 1. Stack Monitoring Test Report
- 2. Water Test Report Buffer Zone 4 Samples.
- 3. Water Test Report Core Zone 2 Samples.
- 4. Ambient Air Buffer Zone 4 Samples
- 5. Ambient Air Core Zone 4 Samples
- 6. Noise Monitoring Report 4 Sites.



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



LAB ACCREDITED BY:

National Accreditation Board for Testing & Calibration Laboratory (NABL). New Dein Jharkhand State Poliution Control Board (JSPCB)

Water *	Test Report	URL (Unique Lab Report) No.	TC78131910000038P	
Issued to: -		Job code - Chemical	YBAEELWAILICIMar19/04	
Ws Inland Power Ltd.		Sample Code	190309-GW-W01	
Tonagatu , Gola Dist : Jharkhand		Report ID	YBAEEL/RAM/19-03-09/GW/V/01 27th April 2019	
		Date of Issue		
Sampl	e Particulars	Details of Sampling		
Sample Name/Description	Ground Water .	Date of sampling	08-03-2019	
Sample Quantity	2000 ml	Sample Received Date	09-03-2019	
Sample pkg. Condition	Plastic sealed Bottles	Sampling Protocol	YBAEEL/SP/01/00	
Test'started on	09-03-2019	Sample collected by	OWN/ Niraj Kumar & Team	
Test completed on	16-03-2019	Sample Location	Bamhi Village	

			Test Result		
SI. No.	Tested Parameter	Unit	Results	Method Name	Permissible Limit (As per IS 10500 Specification)
1.	Colour	CU	< 5	IS:3025 (Part-04)	5 to 15
2.	Odour	-	Agr.	IS:3025 (Part-05)	Agreeable
3.	Alkalinity (as CaCO ₃)	mg/l	142.0	IS:3025 (Part-23)	200 to 600
4.	Hardness (as CaCO ₃)	mg/l	141.4	IS 3025 (Part-21)	200 to 600
5.	Total Dissolved Solid	mg/l	206.0	IS 3025 (Part-16)	500 - 2000
6.	pH value		6.62	IS 3025 (Part-11)	6.5 to 8.5
7.	Nitrate (as NO ₃)	mg/l	3.5	APHA 4500 NO ₃ - B	45 to no relaxation
.8.	Arsenic (as As)	mg/l	ND(DL 0.01)	APHA 3112 B	0.01 to 0:05
9.	Calcium (as Ca+)	mg/l	35.5	IS 3025 (Part-40)	75 to 200
10.	Magnesium (as Mg+)	mg/l	12.7	IS 3015 (Part-46)	30 - 100
11.	Iron (as Fe)	mg/l	0.07	APHA 3111 B	0.3 to no relaxation
12.	Zinc (as Zn)	mg/l	ND(DL 0.1)	APHA 3111 B	5 to 15
13.	Turbidity	NTU	0.0	IS 3025 (Part-10)	1-5
14.	Chloride (as CL-)	mg/l	4.9	IS 3025 (Part-32)	250-1000
15.	Fluoride (as F)	· mg/l	0.6	APHA 4500 (F-C)	10-15
- 16.	R-chlorine	mg/l	ND (DL 0.07)	IS 3025 (Part-26)	0-0 5
17.	Copper (as Cu)	mg/l	ND (DL 0.01)	APHA 3111 B	0.05
18.	Sulphate (as SO42-)	mg/l	10.6	IS 3025 (Part-24)	200-400
19.	Temperature*	οс	23.2	IS 3025 (Part-09)	•
		***	"End of Test"		

Remarks:-According to tested parameter, the results found within prescribe limit of Drinking water specification IS 10500 Note - The parameters marked with * are not accredited by NABL

Specific contractual notes: -

- The results 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.
- This report can be reproduced, except when In full, without the written permission of the Lab In-charge
- The samples received shall be destroyed after two month from the date of issue of the certificate unless specified otherwise and sample for biological testing will be destroyed after one two week of testing.
- The liability of the laboratory is limited to the involced amount.
- All disputes are subjected to the Ranchi Jurisdiction.
- ND not detected, DL detectable limit

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YUGANTAR BHARATI

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY National Accreditation Board for Testing & Calibration Laboratory (NABL), New Dec.

Jharkhand State Poliution Control Board (JSPCB)

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est Report		YBAEELWAILICHAAT. 19195	
		NIA	
		190309-DW-W01	
		YBAEEL/RAM/19-03-09/07//01 27th April 2019	
	Date of Issue		
Particulars	Details of Sampling		
	Date of sampling	08-03-2019	
	Sample Received Date	09-03-2019	
ample pkg. Condition Plastic sealed Bottles		YBAEELJSPi01/00 Ovm / Hiraj Kumar& team	
	Particulars Drinking Water 2000 ml Plastic sealed Bottles 09-03-2019 16-03-2019	Job code - Chemical Job code - Biological Sample Code Report ID Date of Issue Particulars Drinking Water Date of sampling 2000 ml Sample Received Date Plastic sealed Bottles Sample Received Date Sample Received Date Sample Received Date	

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		Test Result		
Tested Parameter	Unit	Results	Method Name	Permissible Limit (As per 15 10500 Specification)
Colour	Hazen	< 5	IS:3025 (Part-04)	5 to 15
Odour	1	Agr.	IS:3025 (Part-05)	Agreeable
	mg/l	38.0	IS:3025 (Part-23)	200 to 500
	mg/l	36.3	IS 3025 (Part-21)	200 to 600
<u> </u>	mg/l	70.0	13 3025 (Part-16)	500 - 2000
, 		6.63	13 3025 (Part-11)	6.5 to 8.5
	mg/l	5.5	APHA 4500 NO₂- B	45 to no relaxation
·	mg/l	ND(DL 0.01)	APHA 3112 B	0.01 to 0.05
	mg/i	13.7	IS 3025 (Part-40)	75 to 200
<u></u>	mg/i	0.5	IS 3015 (Part-46)	30 – 100
	mg/l	0.10	APHA 3111 B	0 3 to no relaxation
·	mg/l	0.15	APHA 3111 B	5 to 15
	NTU	01	IS 3025 (Part-10)	1-5
	uS/cm	108.0	IS 3025 (Part-14)	
		2.9	IS 3025 (Part-32)	250-1000
		0.3	APHA 4500 (F-C)	10-15
		2.4	15: 3025 (Part-44)	
	 -	28.0	IS 3025 (Part-58)	
Oil & Grease	mg/l	0.2		
	Colour Odour* Alkalinity (as CaCO3) Hardness (as CaCO3) Total Dissolved Solid pH value Nitrate (as NO3) Arsenic (as As) Calcium (as Ca+) Magnesium (as Mg+) Iron (as Fe) Zinc (as Zn) Turbidity Conductivity Chloride (as CL-) Fluoride (as F) BOD COD	Colour Hazen Odour	Tested Parameter Unit Results Colour Hazen < 5	Tested Parameter Unit Results Method Name Colour Hazen < 5

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Core zone Site - 3



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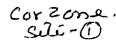
ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY: National Accreditation Board for Testing & Calibration Laboratory (NABL), New Deihi Jharkhanc State Pollution Control Board (JSPCB)

Water 7	est Report	URL (Unique Lab Report) No.	TC78131910000037P	
ssued to : -		Job code - Chemical	YBAEELWAJLJC/Mar19/05	
M/s Inland Power Ltd	i	Job code - Biological	N/A	
Tonagatu, Gola	•	Sample Code .	190309-DW-W02	
Dist: Jharkhand		Report ID	YBAEEL/RAM/19-03-09/DW/W02	
		Date of Issue	27th April 2019	
Sample	e Particulars	Details of Sampling		
Sample Name/Description	Drinking Water	Date of sampling	08-03-2019	
Sample Quantity	2000 mi	Sample Received Date	09-03-2019	
ample pkg. Condition Plastic sealed Bottles		Sampling Protocol	YBAEEL/SP/01/00	
lest started on	09-03-2019	Sample collected by	OWN/ Niraj Kumar & Team	
Test completed on	16-03-2019	Sample Location	Near Stack	

			Test Result		
Sl. No.	Tested Parameter	Unit	Results	Method Name	Permissible Limit (As per IS 10500 Specification)
1.	Colour	Hazen	< 5	IS:3025 (Part-04)	5 to 15
2.	Odour*	-	Agr.	IS:3025 (Part-05)	Agreeable
3.	Alkalinity (as CaCO₃)	mg/l	190.0	IS:3025 (Part-23)	200 to 600
4.	Hardness (as CaCO₃)	mg/l	254.5	IS 3025 (Part-21)	200 to 600
5.	Total Dissolved Solid	mg/l	360.0	IS 3025 (Part-16)	500 - 2000
6.	pH value `		6.67	IS 3025 (Part-11)	6.5 to 8.5
7.	Nitrate (as NO ₃)	mg/l	5.9	APHA 4500 NO ₃ - B	45 to no relaxation
8.	Arsenic (as As)	mg/J	ND(DL 0.01)	APHA 3112 B	0.01 to 0.05
9.	Calcium (as Ca+)	mg/l	61.4	IS 3025 (Part-40)	75 to 200
10.	Magnesium (as Mg+)	mg/l	24.5	IS 3015 (Part-46)	30 – 100
11.	Iron (as Fe)	mg/l	0.11	APHA 3111 B	0.3 to no relaxation
12.	Zinc (as Zrı)	mg/l	ND(DL 0.1)	APHA 3111 B	5 to 15
13.	Turbidity	NTU	01	IS 3025 (Part-10)	1-5
14.	Conductivity	µS/cm	568.0	IS 3025 (Part-14)	
15.	Chloride (as CL·)	mg/l	29.7	IS 3025 (Part-32)	250-1000
16.	Fluoride (as F)	mg/l	0.4	APHA 4500 (F-C)	10-15
17.	BOD	mg/l	0.8	IS 3025 (Part-44)	-
18.	COD	mg/l	8.0	IS 3025 (Part-58)	
19.	Oil & Grease	mg/l	11.6	IS 3025 (Part-39)	•

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ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAS ACCREDITED BY:

National Accreditation Board for Testing & Calibration Laboratory (NABL), New Deib Jharkhand State Poliution Control Board (JSPCB)

	Water Test Report				URL (Unique Lab Report) No.		TC78131910000036P	
lance at 4.					Job code -	Job code - Chemical		ELWAJLICIMar19/05
Issued to	•				Job code -	Biological	N/A	
. M/s Inland Power Ltd. Tonagatu , Gola				Sample Co	de	190309	9-DW-W01	
	Dist : Jharkhand				Report ID		<u> </u>	EL/RAM/19-03-09/DW/01
					Date of Issu	16	27th Ap	orii 2019
	Sample P	articulars				Deta	ils of Sar	npling
Sample N	lame/Description	Drinki	ng Water		Date of sam	pling	08-03-2	2019
Sample C	·	2000 n	nl		Sample Rec	eived Date	eived Date 09-03-2019	
	kg. Condition	Plastic	sealed Bottles	aled Bottles Sampling Pr		rotocol YBAEEL/SP/0		L/SP/01/00
Test star		09-03-	-2019		Sample collected by		Own / Niraj Kumar& team	
Test com	pleted on	16-03-	-2019 S		Sample Location Cante		Cantee	n
20.	Aluminium (as AL)*		mg/i	ND (DL 0.001)	IS 3025 (Par	t-52)	-
21.	Chromium (as Cr)		mg/l		0.01	APHA 311	I B	0.03
22.	Copper (as Cu)		mg/l		0.02	APHA 3111 B		0.05-0.15
23.	Lead (as Pb)		mg/l		0.01	APHA 3111 B		0.01
24. Cadmium (as Cd) r		mg/l	0.01		APHA 3111 B		0 003	
25.	Sulphate (as SO42-)		mg/l		3.5	IS 3025 (Part	-24)	200-400
26.	Nickel (as Ni)		mg/l	0.05		APHA 3111	В	0.02
27.	Ammonia (Free)*		mg/l	ND	(DL 0.1)	IS 3025 (Part	-34)	0.5
28.	Temperature*		ос		25.1	IS 3025 (Part	-09)	-

****End of Test****

Remarks:-According to tested parameter, the results found within prescribe limit of Drinking water specification IS 10500. Note: 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

Tested by Checked by Issued by
Saima Afrin Bajrang Kumar Umesh Das
Lab Analystic An ISO 9081-2015 & OHSAS 18001-2007 Certified Laboratory

Post Box no. 32 Markom Post Office Sidroul Renchi - 934010 (Jharkhand)

ph 098351-97960, 9304955304

Tele Fax: 0651-2260787

E-mail: ybaesi@gmail.com



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY

National Accreditation Board for Testing & Calibration, Laboratory (NABL), New Deli Jharkhand State Pollution Control Board (JSPCB)

Water	Test Report	URL (Unique Lab Report) No.	TC78131910000041P	
Issued to: .		Job code - Chemical	YBAEELWAILICIMar19/04	
Ws Inland Power Ltd	d.	Sample Code	190309-GW-W04	
Tonagatu , Gota Dist : Jharkhand		Report ID	YBAEEL/RAM/19-03-09/GW/W04	
Dist. Jilaiknand		Date of Issue	27th April 2019	
Sample Sample	e Particulars	Deta	alls of Sampling	
Sample Name/Description	Ground Water	Date of sampling	08-03-2019	
Sample Quantity	2000 ml	Sample Received Date	09-03-2019	
Sample pkg. Condition	Plastic sealed Bottles	Sampling Protocol	YBAEEL/SP/01/00	
Test started on	09-03-2019	Sample collected by	OWN/ Niraj Kumar & Team	
Test completed on	16-03-2019	Sample Location	Bayang Village	

	T		Test Result		
SI. No.	Tested Parameter	Unit	Results	Method Name	Permissible Limit (As per IS 10500 Specification)
	Colour	CU	15	IS:3025 (Part-04)	5 to 15
2	Odour	-	Agr.	IS:3025 (Part-05)	Agreeable
3.	Alkalinity (as CaCO ₃)	mg/l	138.0	IS:3025 (Part-23)	200 to 600
4.	Hardness (as CaCO ₃)	. mg/l	240.3	IS 3025 (Part-21)	200 to 600
5.	Total Dissolved Solid	mg/l	402.0	13 3025 (Part-16)	500 - 2000
6	pH value		6.50	IS 3025 (Part-11)	6.5 to 8.5
7.	Nitrate (as NO ₃)	mg/l	63.4	APHA 4500 NO ₃ - B	45 to no relaxation
8	Arsenic (as As)	mg/l	ND(DL 0.01)	APHA 3112 B	0.01 to 0.05
9.	Calcium (as Ca+)	mg/l	71.1	IS 3025 (Part-40)	75 to 200
10.	Magnesium (as Mg+)	mg/l	15.2	IS 3015 (Part-46)	30 - 100
11.	Iron (as Fe)	mg/l	0.39	APHA 3111 B	0.3 to no relaxation
12.	Zinc (as Zn)	mg/l	0.10	APHA 3111 B	5 to 15
13.	Turbidity	! NTU	. 17.0	IS 3025 (Part-10)	1-5
14.	Chloride (as CL-)	mg/l	57.5	IS 3025 (Part-32)	250-1000
15.	Fluoride (as F)	mg/l	0.4	APHA 4500 (F-C)	1.0-1.5
16.	R-chlorine	mg/l	ND (DL 0.07)	IS 3025 (Part-25)	0-0.5
17.	Copper (as Cu)	mg/l	ND (DL 0.01)	APHA 3111 B	0.05
18.	Sulphate (as SO42-)	mg/l	57.2	IS 3025 (Part-24)	
19.	Temperature*	°C	.23.3	IS 3025 (Part-09)	200-200 .

*******End of Test***** Remarks -According to tested parameter, the results found within prescribe limit of Droking water specification IS 10500,

Note - 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

Tosted by Checked by Salma Afria Issued by Lab Analyst

Pn. 098351-97960, 9304955304

Tele Fax 0651-22KA947



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LABACCREDITED BY National Accreditation Board for Testing & Calibration Laboratory (NABL), New De'r

Jharkhand State Poliution Control Board (JSPCB)



Water	Test Report	URL (Unique Lab Report) No.	TC78131910000040P	
issued to: .		Job code - Chemical	YBAEELWAILICIMar19104	
M/s inland Power Ltd	1.	Sample Code	190309-GW-W03	
Tonagatu , Gola		Report ID	YBAEEL/RAM/19-03-09/GW/WG	
Dist : Jharkhand		Date of Issue	27th April 2019	
Sampl	e Particulars	Det	ails of Sampling	
Sample Name/Description	Ground Water	Date of sampling	08-03-2019	
Sample Quantity	2000 ml	Sample Received Date	09-03-2019	
Sample pkg. Condition	Plastic sealed Bottles	Sampling Protocol	YBAEEL/SP/01/00	
Test started on	09-03-2019	Sample collected by	OWN/ Niraj Kumar & Team	
Test completed on	16-03-2019	Sample Location	Bariyatu Village	

			Test Result		
SI. No.	Tested Parameter	Unit	Results	Method Name	Permissible Limit (As per a 10500 Specification)
1.	Colour	CU	10	IS:3025 (Part-04)	5 to 15
<u>2.</u>	Odour	•	Agr.	IS:3025 (Part-05)	Agreeacle
3.	Alkalinity (as CaCO ₃)	mg/l	194.0	IS:3025 (Part-23)	200 to 600
4.	Hardness (as CaCO ₃)	mg/l	423.2	IS 3025 (Part-21)	200 to 600
5.	Total Dissolved Solid	mg/l	704.0	IS 3025 (Part-16)	500 - 2000
6.	pH value		6.40	IS 3025 (Part-11)	6.5 to 8.5
<u>7. </u>	Nitrate (as NO ₃)	mg/l	23.7	APHA 4500 NO ₃ - B	45 to no relaxation
8.	Arsenic (as As)	mg/l	ND(DL 0.01)	APHA 3112 B	0.01 to 0.05
9.	Calcium (as Ca+)	mg/l	125.2	IS 3025 (Part-40)	75 to 200
10.	Magnesium (as Mg+)	l mg/l	27.9	IS 3015 (Part-46)	30 – 100
11.	Iron (as Fe)	mg/l	0.35	APHA 3111 B	0.3 to no relaxation
12.	Zinc (as Zn)	mg/l	0.22	APHA 3111 B	5 to 15
13.	Turbidity	NTU	34.0	IS 3025 (Part-10)	1-5
14.	Chloride (as CL·)	mg/l	163.7	IS 3025 (Part-32)	250-1000
15.	Fluoride (as F)	mg/l	0.5	AFHA 4500 (F-C)	1.0-1.5
16.	R-chlorine	mg/l	ND (DL 0.07)	IS 3025 (Part-26)	0-0.5
17.	Copper (as Cu)	mg/l	ND (DL 0.03)	APHA 3111 B	0.05
18.	Sulphate (as SO42)	mg/l	91.3	IS 3025 (Part-24)	200-400
19.	Temperature*	°C	23.2	IS 3025 (Part-09)	400 112

Remarks - According to tested parameter, the results found within prescribe limit of Drinking water specification IS 10500, Note - The parameters Marked with * are not accredited by NABL

Specific contractual notes.

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- ND not detected, DL detectable limit

Tested b Checked by Sairna Afr issued by Umesh Das Lab Analy Technical Manager



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY: National Accreditation Board for Testing & Calibration Laboratory (NABL), New Device Jharkhand State Pollution Control Board (JSPCB)



Water	Test Report	URL (Unique Lab Report) No.	TC78131910000039P	
Issued to : •		Job code - Chemical	YBAEEL/WA/L/C/Mar19/04	
M/s Inland Power Ltd.	•	Job code – Biological	N/A	
Tonagatu . Gola	·	Sample Code	190309-GW-W02	
Dist : Jharkhand		Report ID	YBAEEL/RAM/19-03-09/GW/W02 27th April 2019	
	•	Date of Issue		
Sampl	e Particulars	Details of Sampling		
Sample Name/Description	Ground Water	Date of sampling	08-03-2019	
Sample Quantity	2000 ml	Sample Received Date	09-03-2019	
Sample pkg. Condition	Plastic sealed Bottles	Sampling Protocol	YBAEEL/SP/01/00	
Test started on	09-03-2019	Sample collected by	OWN/ Niraj Kumar & Team	
Test completed on	16-03-2019	Sample Location	Tonaghatu Village	

			Test Result		
SI. No.		Unit	Results	Method Name	Permissible Limit (As per l 10500 Specification)
1.	Colour	CU	< 5	IS:3025 (Part-04)	5 to 15
2	Odour	-	Agr.	IS:3025 (Part-05)	Agreeable
3.	Alkalinity (as CaCO ₃)	mg/l	62.2	IS:3025 (Part-23)	200 to 600
4.	Hardness (as CaCO ₃)	mg/l	70.7	IS 3025 (Part-21)	200 to 600
5.	Total Dissolved Solid	mg/l	186.0	IS 3025 (Part-16)	500 - 2000
6.	pH value		6.61	IS 3025 (Part-11)	6.5 to 8.5
7.	Nitrate (as NO ₃)	mg/l	24.2	APHA 4500 NO ₃ - B	45 to no relaxation
8.	Arsenic (as As)	mg/l	ND(DL 0.01)	APHA 3112 B	0.01 to 0.05
9.	Calcium (as Ca+)	mg/l	22.6	IS 3025 (Part-40)	75 to 200
10.	Magnesium (as Mg+)	mg/l	3.4	IS 3015 (Part-46)	30 – 100
11.	iron (as Fe)	mg/l -	0.41	APHA 3111 B	0.3 to no relaxation
12.	Zinc (as Zn)	mg/l	ND(DL 0.1)	APHA 3111 B	5 to 15
13.	Turbidity	NTU	7.0	IS 3025 (Part-10)	!-5
14.	Chloride (as CL·)	mg/l	7.9	IS 3025 (Part-32)	250-1000
15.	Fluoride (as F)	mg/l	0.6	APHA 4500 (F-C)	1.0-1.5
16.	R-chlorine	mg/l	ND (DL 0.07)	IS 3025 (Part-26)	0-0.5
17.	Copper (as Cu)	mg/l	ND (DL 0.01)	APHA 3111 B	0.05
18.	Sulphate (as SO42-)	mg/l	8.2	IS 3025 (Part-24)	200-400
19.	Temperature'	OC	23.1	IS 3025 (Part-09)	

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

Remarks:-According to tested parameter, the results found within prescribe limit of Drinking water specification IS 10500, Note:- 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

Tested by 5

Checked by Circle on 8

Saima Africa An ISO 90015 & OBakrang Kumar of Cell of Control of Umesh Das

Lab Analyst An ISO 90015 Post Box No. 32

No. 150 90015 Post Box No. 32



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

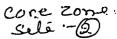


National Accreditation Board for Testing & Calibration Laboratory (NABL), New Dath Jharkhane State Pollution Control Board (JSPCB)

STACK	MONITORING TEST R	EPORT	URLain	que Lab Raport) No.	TC78131920000230P	
Troport Release Date	27th April 2019			e/ Ref. No.	YBAEELWA/L/A/Mar-19/	
Report ID	YBAEEL/RAM/19-0	13-00/Stook/02				
Sampling Date	9th March, 2019	13-09/3tack/03		Description	Stack Monitoring	
Name of Industry	3" March, 2019			Industry	Electric Power Plant	
i	M/o Inland D			g Location	Port Hole	
i !	M/s Inland Po		Pollution	Control System	ESP	
	Tonagatu , G		Ladder/	Platform	Permanent	
; •	Dist : Jharkha	and.	Weather	Condition	Clear	
			j	Humidity	67%	
Customer Ref.	Mr. S.N. Sinha	·	Sample		 	
General Information			Sample	nawii uy	Ovm Mr.Niraj kr.& Team	
Stack No. if any						
Height of Stack from are	ound	•		Or		
miller Dimension of Star	^k	mete		95		
Height of porthole from	ground	mete		3.3		
		· · · · · · · · · · · · · · · · · · ·	<u></u>	48		
Fuel Characteristic Repor	rt					
Type of Fuel		T		Coal+Dola Chassi	Washar Daine	
Fuel Consumption				Coal+Dola Char+Washery Reject 1400 -1500 MT/Day		
Production Capacity		-		63 MW		
Results of Analysis					1	
Stack gas temperature	°C		· · · · · · · · · · · · · · · · · · ·	T		
Stack gas velocity	m/s	IS 11255 P I	11.2000	129		
Volumetric flow rate	· Nm³/hr	IS 11255 P I	11:2008	8.00	<u> </u>	
Particulate Matter (PM)	mg/Nm³	IS: 11255 (P	-1)2009	17377		
Sulphur dioxide (SO₂)	mg/Nm³	IS: 11255 (P-	2) 2009	38.0 32	<u> </u>	
Oxides of Nitrogen (NO ₂)	mg/Nm³	IS: 11255 (P-		53		
Carbon Monoxide (CO)	mg/Nm³	IS 13270 : 1992	RA 2009	19		
Mercury (Hg)*	mg/Nm³			0.002		
_					-	
mission Rate						
Oust Sulphure dioxide		kg/hr			6.61	
			kg/hr		5.56	
Oxides of nitrogen	N9/11		0.21		· · · · · · · · · · · · · · · · · · ·	
		****** END of	FREPORT **	*****		
		•				
emarks	All values are observed	well within the limit				
pecific contractual	All values are expressed !	n as unit				
otes	The results listed refer onl		od annimahla sa			
e Parameters marked with * e not accredited by NABL	This report, in full or in par	t, shall not be used for a	dvedleine	ameter: vidence in any court of law		
•	This report cannot be repri	oduced except when in	CANDING OF SE	vidence it any court of law		
	The samples collected sha	Il ha destroyed about 1	iuii, without the w	ritten permission of the Lab	in-charge	
Ì	The liability of the leberate	evia limited to the	lays from the date	of issue of the certificate u	intess specified otherwise	
ļ	The liability of the laborato	y is intrited to the involce	ed amount			

All disputes are subjected to the Ranchi Jurisdiction Juka Ma Tested by Verified by Issued by Umesh Das





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YUGANTAR BHARAT!

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY: National Accreditation Board for Testing & Calibration Laboratory (NABL), New Defa Iharknand State Pollution Control Board (ISPCR)

	J	harknand	: State Pollutio	n Control	Board (JSF	PCB)		•
	Water Te	st Repo	ort		URL(Unique	Lab Report) NO.	TC781	31910000037P
					Job code -		YBAE	ELWA/L/C/Mar19/05
ssued to					Job code -	Biological	N/A	
	M/s Inland Power Ltd.				Sample Co	de	190309	3-DW-W02
	Tonagatu , Gola Dist : Jharkhand				Report ID		YBAE	EL/RAM/19-03-09/DW/W02
					Date of Issu	ne	<u> </u>	oril 2019
	Sample P	articulars			T	Deta	ils of Sai	mpling
ample N	ame/Description	Drinki	ng Water		Date of san	Date of sampling		2019
ample C		2000 n	2000 mi			eived Date	09-03-2	2019
	kg. Condition	Plastic	sealed Bottles	,	Sampling Protocol		YBAEEL/SP/01/00	
est star	· · ·	09-03-	2019		Sample collected by		OWN/ Niraj Kumar & Team	
est com	pleted on	16-03-	2019	,	Sample Location		Near Stack	
20.	Aluminium (as AL)*		mg/l	ND (DL 0.001)	IS 3025 (Par	t-52)	•
21.	Chromium (as Cr)		mg/l		0.02	APHA 311	I B	0.03
22.	Copper (as Cu)		mg/l		0.03	APHA 311	IB	0.05-0.15
23.	Lead (as Pb)		mg/l		0.01	APHA 311	В	100
24.	Cadmium (as Cd)		mg/i		0.02	APHA 311	I B	0.003
25.	Sulphate (as SO42-)		mg/l		72.3	IS 3025 (Par	1-24)	200-400
26.	Nickel (as Ni)		mg/l		0.01	APHA 3111	В	0.02

*End of Test***

ND (DL 0.1)

25.1

Remarks:-According to tested parameter, the results found within prescribe limit of Drinking water specification IS 10500, Note - The parameters marked with * are not accredited by NABL

Specific contractual notes: -

Ammonia (Free)*

Temperature*

27.

28.

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mg/l

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- ND not detected, DL detectable limit

Tested by Checked by Issued by Saima Afrin Bajrang Kumar Umesh Das Lab Analyst Authorized Signatory Technical Manager 2015 & OHSAS 18001:20079@ Hispenicon

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Namkom Post Office 1 SiEf801

Ranchi - 834010 (Jharkhand)

oh. 098351-97960, 9304955304

Tele Fax: 0651-2260787

E-mail: ybaeel@gmail.com

IS 3025 (Part-34)

iS 3025 (Part-09)



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



National Accreditation Board for Testing & Calibration, Laboratory (NABL), New Devi Uharimano State Follution Control Board (USPCB)

Amb	ient Air Quality F	Report	•	URL (Unique Lab f	Renorti No.	TC7813192000	10227E
Report Release Date	27th April 2019			Job code/ Ref. 1		YBAEELWA/L/	
Report ID	YBAEEL/RAM/19-	03-08/AAQ/03		Sample Descrip		Ambient Air Qu	
Sampling Date	8th to 9thMarch 2			Type of Industry		Electricity Power	
Sampling duration	24hrs.		 	Work Order No.			
	+			Work Order No.	` 	Telephonic Ord	
Name of Industry	M/s Inland i	owar I ta			AAQ-A	Seranghatu Vill	age
			•	Sampling	AAQ - B	Bariatu village	
•	Tonagatu,G			Locations	AAQ-C	Urba village	
	Dist : Jhark	hand.			AAQ-D	Tonagatu village	
				Weather Condition cle		clear	
•				Relative Humidi	ty	67%	
		•		Average Temper	rature	30°C	
Customer Ref.	Mr.S.N.Sinha		Sample drawn b	у	Mr.Niraj Kr. &Te	am	
Parameters	Method		Sam	oling Location		Units	NAAQS (2009)
	1	Site A	Site B	Site C	Site D		
Particulate Matter (PM10)	IS 5182 (Part 23)	81.8	74.89	70.49	82.58	μg/m3	100 µg/m3
Particulate Matter (PM2.5)	US EPA. 40 CFR (P-50) (50.7)	54.58	52.5	50.0	56.25	μg/m3	60 µg/m3
Sulphur Dioxide (SO2)	IS 5282 (Part 2)	11.36	14.77	13.64	15.91	µg/m3	80 µg/m3
Nitrogen Dioxide (NO2)	IS 5182 (Part 6)	18.53	20.21	21.5	19.37	µg/m3	80 µg/m3 .
		****	**** End of	Report******		<u> </u>	

Remarks	Ali values are obser	ved well within the limit					
Specific contractual	All values are expresse	ed in as unit					
notes	i inis report, in full or in	only to the tested sample and applicable param part, shall not be used for advertising or as evice	dana la				
,	1 11119 LEDOLL PAULOUGE	CDFOOLERG AYCANT When is full with a set					
*	The samples collected shall be destroyed after 45 days from the date of issue of the certificate unless specified otherwise. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction.						
	All disputes are subject	ted to the Kanchi Junsdiction					
Julie of R	المحر	11/2/2/2	3-271111-				
Tested by Mukesh Sir		Merified by Amit Kumar Sinha	issued by				
Analyst		Lab Analyst	Umesh Das Technicsi Manager				
	E C	Enginesing	Authorized Signatory				
	(5)	/ §]	Atmospharic Pollution				
	THE STATE OF LOUIS	/§1	Yugani so I in a equilytical &				
,	1 VION	JOSEP P	Environmental Engineering Laboratory				

MALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

-AS ACCREDITED BY: National Accreditation Board for Testing & Calibration Laboratory (NABL). New Dem.
Jhacknand State Polition Control Board (JSPCB)



Ambient Air Quality Report				URL (Unique Lab Report)No.		TC78131920000228F		
Report Release Date	27 th April 2019			Job code/ Ref.	no.	YBAEELWA/L/A	VApr-19/	
Report ID	YBAEEL/RAM/19-0	3-07/AAQ/03		Sample Descri	ption	Ambient Air Qua	ality	
Sampling Date	7th to 8th March 20)19		Type of Indust	ry	Electricity Powe	r Plant	
Sampling duration	24hrs.		•.	Work Order No	J Date	Telephonic		
				-	AAQ · A	Near Main Gate		
Name of Industry	M/s Inland P	ower Ltd.		Sampling	AAQ - B	Near Guard Res	t Room	
	Tonagatu, G	ola		Locations	AAQ - C	Near Switch Yar	d .	
	Dist : Jharki				AAQ - D	Near B Gate		
					ition	clear		
				Relative Humid	ity	67%	67%	
				Average Temp	erature	30°c		
Customer Ref.	Mr.S. N.Sinha			Sample drawn	by	Mr.Niraj Kr.&Tea	ım	
B			Sam	pling Location			NA 4 00 (2300)	
Parameters	Method	Site A Site B		Site C	Site	Units	NAAQS (2009)	
Particulate Matter (PM10)	IS 5182 (Part 23)	96.55	89.95	89.60	72.7	8 µg/m3	100 µg/m3	
Particulate Matter (PM2.5)	US EPA. 40 CFR (P-50) (50.7)	55.33	49.58	50.42	48.7	5 μg/m3	60 µg/m3	
Sulphur Dioxide (SO2)	IS 5282 (Part 2)	19.32	17.04	21.59	20.4	5 μg/m3	80 µg/m3	
Nitrogen Dioxide (NO2)	IS 5182 (Part 6)	36.21	31.16	37.89	27.7	9 µg/m3	80 μg/m3	
	. L	****	**** End o	f Report******	· · · · · · · · · · · · · · · · · · ·		i	

Remarks	All values are obse	rved well within the limit	
Specific contractual	All values are express		
notes	The results listed refe	er only to the tested sample and applicable parameter.	
lotes	This report, in full or i	n part, shall not be used for advertising or as evidence	e in any court of law
	! This report cannot be	reproduced, except when in full, without the written n	ecoussion of the Lab In chama
	The samples collecte	d shall be destroyed after 45 days from the date of issued	ue of the certificate unless specified otherwise
	The liability of the lab	oratory is limited to the involced amount	
	All disputes are subje	cted to the Ranchi Jurisdiction	
& Assur			2000 3 1919 ·
Tested by		Amit Kumar Sinha	Issued by
Mukesh Sir	igh profitcion	Amit Kumar Sinha	Umesh Das
Analyst		Lab Analyst	Technical Manager
	Sharati,	100 07545 18001 2007 Cort	Authorized Signatory Atmospharic Pollution Yugantar Obarrii Analyticai 8 Environmental Engineering Laboratory

Signout Ranch - 834010 füherkhalts



ANALYTICAL & ENVIRON JENTAL ENGINEERING LABORATORY



CAS ACCREDITED BY: National Accretication Board for Tesung & Cancretion, Laboratory (NABL), New Delb Jharkhand State Poliution Control Board (JSPCB)

	Nois	e Monitoring Repo	ort	URL (Unique Lab R	eport) No.	TC78131920000	229F
	Release Date	27th April 2019		Job code / Ref. No.		YBAEELWA/L/A/April-19/	
Report ID YBAEEI		YBAEEL/RAM/19-03	3-08/Noise/03	Sample Descript	tion	Noise Level Moni	toring
	ng Date	8th to 9th March 19		Type of Industry		Electric Power Plant	
Campling		24 hrs.		Work Order No./ Date		Telephonic Order	
					N1	Main Gate	
Mame (of Industry	M/s Inland Po	wer Ltd.	Sampling	N2	Weight Bridge	
		Tonagatu , Go	ola '	Locations&	N3	Cooling Tower T.G Building	
		Dist : Jharkha	1	Time	N 4		
				Weather Condition Relative Humidity Average Temperature		Hostel	
						Clear 67% 30°C	
		1	,				
Custor	ner Rep.	Mr. S.N. Sinha		Monitored by		Own/ Mr.Niraj Kr.& Team	
<u> </u>	L	ocations	Method	Leq in d (Day Tim		Leq in dB (Night Time)	(Norms) CPCB
N 1	Main Gate			68.5 69.3		57.2	
N 2	Weight Brid	ge				56.9	
N 3 Cooling Tov		ver	IS:15575.1.2005	71.9		63.7	Industrial Area Day 75 dB Night 70 dB
N 4	T.G Building	3		73.5		67.9	
N 5	Hostel			60.1		50.6	

CPCB Stan	dard		Day Time	Night time	
Δ	Industrial Area Commercial Area Residential Area		75.0	70.0	
			65.0	55.0 45.0	
			55.0		
	Silence Zone		50.0	40.0	
Remarks	!	All values are observed well within the limit			
pecific	contractual	Day Time - From 6:00 Am to 10:00Pm, Night Time - From 10:0 The results listed refer only to the tested sample and applicable	ole parameter. Or as evidence in any court of law		
otes		This report, in full or in part, shall not be used for advertising or			
		This report cannot be reproduced, except when in full, without	the written permission of the Lab In-cha	rge	
		The samples collected shall be destroyed after 45days from th	e date of issue of the certificate unless s	se whento belinsed	
The liability of the laboratory is limited to the Invoiced an All disputes are subjected to the Ranchi Jurisdiction				· <u>.</u>	
	. 0 92	A James and designation to the trainer our source of		- D-1	

Tested by Verified by Issued by Niraj Kumar Amit Kumar Sinha Umesh Das Analyst



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

National Accreditation Board for Testing & Calibration Laboratory (NABL), New Des Jharkhane State Pollution Control Board (JSPCB)



	Test Report	
Issued to : • M/s – Inland Power Limited Tonagatu, Gola, Dist. – Ramgarh, Jharkhand	Sample Code: -190309-FA-E01 Report ID: - YBAEEL/RAM/19-03-09/FA/01 Date of Issue: 27th April 2019 Reference: - YBAEEL/WA/L/C/Mar-19/03	
Sample Particulars Sample Name/Description: - Fly Ash	Details of Sampling Date of sampling : - 09-03-2019	
Sample Quantity: - 10 kg Sample pkg. Condition: - Sealed in plastic bag	Sample Received Date: -09/03/2019 Sample collected by: -Mr.Niraj Kumar& team Sampling Location: -Fly Ash	
	Test Result	

t started o	ted on: - 09.03.2019 Test completed on :- 18.03.2		18.03.2019
SI. No.	Tested Parameter	Unit	Results
1.	Arsenic	ppm	< 0.01
2.	Mercury		
3.	Chromium	ppm	< 0.01
4.	Lead	ppm	0.04
5.	Cedmium	ppm	0.04
6.		ppm	0.03
	Copper	ppm	0.03
7.	Nickel	ppm	0.02
8.	Selenium	ppm	0.01
9.	Zinc		
10.	Unborn carbon	ppm	0.53
		%	G.14

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

Remarks:-According to tested parameter, the results found as above. Specific contractual notes: -

- The results listed refer only to the tested sample and applicable parameter.
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- The liability of the laboratory is limited to the invoiced amount.
- All disputes are subjected to the Ranchi Jurisdiction.

Sainethin	13/27/04/19	
(Saima Afrin) Analyst	Verified by (Bajrang Kumar)	Issued by
Analyst Briggs	Authorised Signatory	(Umesh Das) Technical Manager

Authorized Signatory Pollution & Environment Yuganta: Dharas Analytical & Environmental Engineering Eucoratory



An ISO 9001 2015 & OHSAS 18001:2007 Certified Laboratory Namicom Post Office : Sidroul Ranchi - 834010 (Jharkhand)

Post Boxino, 32





ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

AB ACCREDITED BY:

National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi Jharkhand State Pollution Control Board (JSPCB)



Issued to : -	Test Report	
M/s - Inland Power Limited Tonagatu, Gola, Dist Ramgarh, Jharkhand	Sample Code: - 190309-BA-E01 Report ID: - YBAEEL/RAM/19-03-09/BA/E01 Date of Issue: - 27 th April 2019 Reference: - YBAEEL/WA/L/C/Mar-19/03	
Sample Particulars Sample Name/Description: - Bottom Ash Sample Quantity: - 10 kg Sample pkg. Condition: - Sealed in plastic bag	Details of Sampling Date of sampling: - 09-03-2019 Sample Received Date: -09/03/2019 Sample collected by: -Niraj Kumar& Team	
- Sealed in plastic bag	Sampling Location: -Bottom Ash Hopper	

st started on: - 09.03.2019		Test completed on :- 18.04.2019	
SI. No.	Tested Parameter	Unit	Results
1.	Arsenic		
2.	Mercury	ppm	< 0.01
3.	Chromium	ppm	< 0.01
4.		ppm	0.07
	Lead	ppm	0.05
5.	Cadmium	ppm	
6.	Copper		0.04
7.	Nickel	ppm	0.04
8.	Selenium	ppm	0.03
9.	Zinc	ppm	0.02
10.		ppm	0.74
	Unborn carbon	%	1.14

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

Remarks:-According to tested parameter, the results found as above. Specific contractual notes: -

- The results listed refer only to the tested sample and applicable parameter.
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- The liability of the laboratory is limited to the invoiced amount.
- All disputes are subjected to the Ranchi Jurisdiction.

Sumatfric	27/04/19	7-7-1919
Tested by (Saima Afrin)	Verified by	Issued by
1 1 1	(Bajrang Kumar) Authorised Signatory	(Umesh Das) Technical Manager

Authorized Signatory Paluti n & Calibumént Yegamar Domini i walytinat & Environmental City housing Laboratory



An ISO 3001: 2015 & OHSAS 18001:2007 Certified Laboratory

Namkom Post Office

Ranchi - 834010 (Jharkhand)





ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY



LAB ACCREDITED BY: National Accreditation Board for Testing & Calibration Laboratory (NABL), New Defin Jharkhand State Pollution Control Board (JSPCB)

Water '	Test Report	URL (Unique Lab Report) No.	TC78131930000086P	
Issued to : -		Job code - Chemical	YBAEEL/WA/L/C/Mar19/06 190309-WW-W01	
M/s Inland Power Ltd	d.	Sample Code		
Tonagatu , Gola Dist : Jharkhand		Report ID	YBAEEL/RAM/19-03-09/WW/W0 27th April 2019	
		Date of Issue		
Sample Name/Description	e Particulars	Details of Sampling		
Sample Quantity	Waste Water	Date of sampling	08-03-2019	
Sample pkg. Condition	2000 ml	Sample Received Date	09-03-2019	
Test started on Plastic sealed Bottles		Sampling Protocol	YBAEEL/SP/01/00	
Test completed on	09-03-2019	Sample collected by	OWN/ Niraj Kumar & Team	
The sombleten Ou	14-03-2019	Sample Location	Final Effluent	

		Test Result		
Tested Parameter	Unit	Results	Method	Permissible Limit (As per IS 2490 Specification)
pH value		6.45	IS 3025 (Part-11)	5.5 to 9.0
Temperature*	°c			
Chloride (as CL-)	ma/l			Not exceed from 40 ⁶
T	 	100.2	15 3025 (Part-32)	<u></u>
	mg/l	0.4	APHA 4500 (F-C)	2 mg/l
Total Dissolved Solid	mg/l	604.0	IS 3025 (Part-16)	2100 mg/l
Total Suspended Solid	mg/l	98		
BOD	ma/l	8.0		100 mg/l
COD			15 3025 (Part-44)	. 30 mg/l
	mg/l	72.0	IS 3025 (Part-58)	250 mg/l
Nitrate (as NO ₃)	mg/l	6.5	AP'HA 4500 NO ₃ - B	
Sulphate (as SO42-)	mg/l	137.2	 -	
Phenois*	mail	2.40		1000 mg/l
	ing/i	0.42	IS 3025 (Part-43)	1
Oil & Grease	mg/l	6.4	IS 3025 (Part-39)	<10 mg/l
	pH value Temperature* Chloride (as CL·) Fluoride (as F) Total Dissolved Solid Total Suspended Solid BOD COD Nitrate (as NO ₃)	pH value Temperature* 0c Chloride (as CL·) mg/l Fluoride (as F) mg/l Total Dissolved Solid mg/l Total Suspended Solid mg/l BOD mg/l COD mg/l Nitrate (as NO ₃) mg/l Sulphate (as SO4 ²⁻) mg/l Phenols* mg/l	Tested Parameter	Tested Parameter Unit Results Method pH value 6.45 IS 3025 (Part-11) Temperature* 0c 25.8 IS 3025 (Part-09) Chloride (as CL·) mg/l 100.2 IS 3025 (Part-32) Fluoride (as F) mg/l 0.4 APHA 4500 (F-C) Total Dissolved Solid mg/l 604.0 IS 3025 (Part-16) Total Suspended Solid mg/l 98 IS 3025 (Part-17) BOD mg/l 8.0 IS 3025 (Part-44) COD mg/l 72.0 IS 3025 (Part-44) COD mg/l 6.5 APHA 4500 NO3- B Sulphate (as NO3) mg/l 137.2 IS 3025 (Part-24) Phenois* mg/l 0.42 IS 3025 (Part-43)

*End of Test**** Remarks:-According to tested parameter, the results found within prescribe limit of Effluent water specification IS 2490. Note: The Parameters marked with * are not accredited by NABL Specific contractual notes: -

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- The samples received shall be destroyed after two month from the date of issue of the certificate unless specified otherwise and sample for
- The liability of the laboratory is limited to the involced amount.
- All disputes are subjected to the Ranchi Jurisdiction.
- ND not detected, DL detectable limit

(c siling		
Tested by Schrift	13/27/04/19 Bur 27/41	19 .
Saima Afrin Silver Lab Analyst (\$\frac{1}{3}\)	Bajrang Kumar Ciol State Issued by	
19	Authorized Signatory College C	
Tuvineniano Post Box 233	OCT STATE OHEAR 18001 2887 OF ENVIOLENCE	7
Tuvane:nland Post Box 233 Apple Ph. 098351-97960 2044	Sidroginger Ranchi - 834010 (Jharkhand)	TÜVRheini



ANALYTICAL & ENVIRONME TIAL ENGINEERING LABORATORY

LANACORPORTERIN

Nu sonal Accoditation Barria to Festing & Calibration Loborator, (HABL), New Deli Jharkhand State Polletina Control Board (JSPCB)

STACK	MANUTADINA TEST REPORT	URL	TC78131820000022P	
STACK MONITORING TEST REPORT Report Release Date 4th October 2018		Ref. No.	YBAEELNININSep-181	
Report ID	4th October 2018 YBAEEU/RAM/18-09-26/Stack/01	Sample Description	Stack Emission	
Sampling Date	26th September 2018	Type of Industry	Power Generation	
Name of Industry	20 September 2010	Sampling Location	Port hole	
		Pollution Control System	ESP + Bag Filter	
M/s inland Power Limi	ted	Ladder	Permanent	
Tonaghatu, Gola, Ramgarh, Jharkhand		Platform	Permanent	
		Weather Condition	Clear	
Customer Ref.	Mr. S.N. Sinha	Sample drawn by	Mr. Mukesh Singh & Team	

General Information		
Stack No. If any		One
Height of Stack from ground	in meter	95
Inner Dimension of Stack		3
Helefact Differsion of Stack	In meter	48
Height of porthole from ground	in meter	

Fuel Characteristic Report & Oven Description	1	
Type of Fuel		Coal + Dola Char + Washry Reject
Fuel Consumption		1400 – 1500 MT/ Day
	<u> </u>	63 MW
Production Capacity	•	00 MIN

Result of Analysis	•	
Atmospheric temperature	in ° C	34
Stack gas temperature	in ^o C	141
Stack gas velocity	in m/s	9.68
Volumetric flow rate	in Nm³/hr	176015.57
Concentration of Particulate Matter	in mg/Nm³	37.74
Concentration of Sulphur dioxide	in mg/Nm³	20.14
Concentration of Oxides of Nitrogen	in mg/Nm³	16.43
Concentration of CO	%	21
Concentration of Hg	in mg/Nm³	0.003

Emission F	Rate		
Dust		kg/hr	5.29
Dust		****** END	of REPORT ******
Remarks	All values are observed well within	the limit	
Note	The results listed refer only to the t	ested sample and applica	able parameter.
Note	This report, in full or in part, shall ne	ot be used for advertising	g or as evidence in any court of law
	This most cannot be reproduced	except when in full, without	out the written permission of the Lab In-charge
	The samples collected shall be des	troyed after 45 days fron	n the date of issue of the certificate unless specified otherwise
	Jerkof Brok	1	ik who give.
	Tested by	//er've	effied by Issued by
	Mukesh Singh	Ami	it Kr Sinha Umesh Das
	Field Analyst	La	b Analyst Technical Manager



Authorized Signatory
Atmospharic Pollution
Yuganth Frank Enalytical &
Environmental Enganceing Laboratory



An ISO 9001: 2008 & OHSAS 18001:2007 Certified Laboratory



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LAB ACCREDITED BY National Accreditation Board for Tosting & Calibration Laboratory (NABL), New Delhi Jhackhand State Pollution Control Board (JSPCB)

JIMINIMI OTOTO	
Water Test Report	URL TC78131810000050P Reference YBAEELWA/UC/Sep-18/13 Sample Code 180926-GW-W04 Sample Code 180926-GW-W04
Tonagatu, Gola,	Sample Code 100000 Report ID YBAEEL/RAM/18-09-26/GW/04 Date of Issue 4th October 2018 Details of Sampling

		Details	of Sampling
Sample	Particulars		26-09-2018
Sample Name/Description	Ground Water	Date of sampling	26-09-2018
Sample Quantity	Two litre (1000 ml X 2)	Sample Received Date	YBAEEL/SP/01/00
Sample pkg. Condition	Sealed in plastic bottle	Sampling Protocol	Own / Mukesh Singh & team
Test started on	, 26-09-2018	Sample collected by	Bayang Village
Test completed on	03-10-2018	Sampling Location	

leted on	03-10-2018				
		Tes	t Result	Mothod Name	Permissible Limit (As per IS 10500 Specification)
Tested Paramo	ter	Unit	Results		6.5 to 8.5
			6.46	IS:3025 (Part-11)	< 40° C
			27.1		2000 mg/l
				IS:3025 (Part-16)	
					1.5 mg/l
Fluoride (as F)				IS:3025 (Part-21)	600mg/l
T. Hardness (as CaC	O ₃)			IS:3025 (Part-32)	1000mg/l
Chloride (as CI)				IS:3025 (Part-10)	5NTU
Turbidity		NTU		4500 NO3 B	45 mg/l
Nitrate (as NO ₃)		mg/l			0.3 mg/l
		mg/l	ND (DL 0.1)		
		mg/l			
		mg/l			600 mg/l
Alkalinity (as CaCO	1)	mg/l			100mg/l .
Magnesium (as Mg+)	mg/l		IS:3025 (Part -40)	200 mg/l
		mg/l			0.05 mg/l
		mg/l			15 mg/l
		mg/l			1.0 mg/l
		mg/l		IS:3025 (Part-24)	400 mg/l
Sulphate (as SO ₄)		mg/l		ADHA 3111 B	1.5 mg/l
Conner (as Cu)		mg/l		AFTIA STITLE	
	Tested Paramo pH value Temperature Total dissolved solid Fluoride (as F) T. Hardness (as CaC Chloride (as CI) Turbidity Nitrate (as NO ₃) Iron (as Fe) Odour Colour Alkalinity (as CaCO: Magnesium (as Mg+ Calcium (as Ca+) Arsenic (as As) Zinc (as Zn) R. Chlorine	Tested Parameter pH value Temperature Total dissolved solid Fluoride (as F) T. Hardness (as CaCO ₃) Chloride (as Cl) Turbidity Nitrate (as NO ₃) Iron (as Fe) Odour Colour Alkalinity (as CaCO ₃) Magnesium (as Mg+) Calcium (as Ca+) Arsenic (as As) Zinc (as Zn) R. Chlorine Sulphate (as SO ₄)	Tested Parameter Unit pH value Temperature Total dissolved solid Fluoride (as F) T. Hardness (as CaCO3) Chloride (as Cl) Turbidity Nitrute (as NO3) Iron (as Fe) Odour Colour Alkalinity (as CaCO3) Magnesium (as Mg+) Calcium (as Ca+) Arsenic (as As) R. Chlorine Sulphate (as SO4) Tested Parameter Unit mg/l mg/l mg/l Mg/l Turbidity NTU MTU mg/l mg/l mg/l mg/l Arsenic (as As) mg/l R. Chlorine mg/l Mag/l Mag/l	Test Result	Tested Parameter

Remarks Specific contractual notes According to tested parameter, the results found within prescribe limit of Drinking water specification IS 10500 This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report can be reproduced, except when in full, without the written permission of the Lab In-charge The samples received shall be destroyed after two month from the date of issue of the certificate unless specified otherwise and sample for biological testing will be destroyed after one two week of testing. The liability of the laboratory is limited to the invoiced amount.	sample for biological testing will be destroyed after the troof the troof to the sample for biological testing will be destroyed after the troof to the tro	ND – not detected , DL – Detectable limit	Remarks Specific	According to tested parameter, the results found within prescribe limit of Drinking water specification IS 10500 The results 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. This report can be reproduced, except when in full, without the written permission of the Lab In-charge The samples received shall be destroyed after two month from the date of issue of the certificate unless specified otherwise and sample for biological testing will be destroyed after one two week of testing. The liability of the laboratory is limited to the invoiced amount. All disputes are subjected to the Ranchi Jurisdiction
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Sainaffrin	B/4/10/18	July 18
Tested by	Checked by	Issued by
- Saima Afrin	Bajrang Kumar	Umesh Das
Lab Analyst *	Section In-Charge	. Technical Manager
Labratage	Authorized Signatory	

Authorized Signatory Chemical Section Yugantar Bha: Hi Analytical & Environme Frk. Hing Laboratory





ANALYTICA: & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY

National Accorditation Board for Testing & Chalbrain in Laborator, (HABL), No. 1050 Jhackhand State Polletic is Control Board (JSPCB)

VIII	URL 1C78131810000049P
Water Test Report	YBAEELWANDCOAPTOTT
issued to :	1809/0-0347-1100
Ws Inland Power Limited Tonagatu, Gola.	YBAEELIKAMITOO
DistRamgarh, Jharkhand	Date of Issue 4th October 2018

		Details	s of Sampling
Sample	Particulars		26-09-2018
Sample Name/Description	Ground Water	Date of sampling	26-03-2018
Sample Quantity	Two litre (1000 ml X 2)	Sample Received Date	YBAEEL/SP/01/00
Sample pkg. Condition	Sealed in plastic bottle	Sampling Protocol	Ovm / Mukesh Singh & team
Test started on	26-09-2018	Sample collected by	Totnagatu Village
Test completed on	03-10-2018	Sampling Location	

est comp	neted ou t)3-10-20 to				20 15 10 1
				t Result	Method Name	Permissible Limit (As per IS 10500 Specification)
SI. No.	Tested Paramete	er '	Unit	Results	IS:3025 (Part-11)	6.5 to 8.5
1,	pH value		-	6.59	2550 B	< 40° C
':	Temperature		°C	27.2	IS:3025 (Part-16)	2000 mg/l
3,	Total dissolved solid		mg/l	842	4500 F C	1.5 mg/l
4.	Fluoride (as F)		mg/l	0.6	IS:3025 (Part-21)	600mg/l
5.	T. Hardness (as CaCO	2)	mg/l	. 113.1	IS:3025 (Part-32)	1000mg/l
6,	Chloride (as CI)		mg/l	4.8	IS:3025 (Part-10)	5NTU
7.	Turbidity		NTU	1.0	4500 NO3 B	45 mg/l
8,	Nitrate (as NO ₃)		mg/l	3.4	3111 B	0.3 mg/l
9,	Iron (as Fe)		mg/l	ND (DL 0.1) Agreeable	IS:3025 (Part-05)	
10.	Odour		mg/l	Agreeable < 5	IS:3025 (Part-4)	
11.	Colour		mg/l	98	IS:3025 (Part-23)	600 mg/l
12.	Alkalinity (as CaCO ₃)		mg/l	5.4	IS:3025 (Part-46)	100mg/l
13.			mg/l	36.3	IS:3025 (Part -40)	200 mg/l
14.			mg/l	ND (DL 0.003)	APHA 3114 B	0.05 mg/l
15.			mg/l	ND (DL 0.01)	. APHA 3111 B	15 mg/l
16.			mg/l	ND (DL 0.07)	IS:3025 (Part-26)	1.0 mg/l
17.	R. Chlorine		mg/l	17.6	IS:3025 (Part-24)	400 mg/l
18.	Sulphate (as SO ₄)		mg/l mg/l	ND (DL 0.01)	APHA 3111 B	1.5 mg/l
19	. Copper (as Cu)		****	nd of Test****		egification IS 10500

*****End of Test**** According to tested parameter, the results found within prescribe limit of Drinking water specification IS 10500 The results listed refer only to the tested sample and applicable parameter. Remarks This report, in full or in part, shall not be used for advertising or as evidence in any court of law. Specific This report can be reproduced, except when in full, without the written permission of the Lab In-charge contractual notes The samples received shall be destroyed after two month from the date of issue of the certificate unless specified otherwise and sample for biological testing will be destroyed after one two week of testing. 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

Lacuaffria	13/10/10	Jan Jolle
	Checked by	Issued by
Tested by Saima Afrin	Bairang Kumar	Umesh Das
	Section In-Charge	Technical Manager
Lab Analyst	Authorized Signatory	

Authorized Signatory Chemical Section Yugantar Bharati Analytical & Environmental Engineering Laboratory



An ISO 9001: 2008 & OHSAS 18001:2007 Certified Laboratory

Dart Bounn 37

Namkom Post Office Sidroul I Ranchi - 834010 (Jharkhand)





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LABACCREDITED IN: National Accreditation Board for Tosting & Calibration, Laboratory (NABL), New Dela Jhaskhand State Polletion Control Board (JSPCB)

	Wild Wild Course	
		TC78131810000048P
r	141 A Danat	URL YBAEELWALIC/Sep-18/13
L	Water Test Report	Reference YBACLDVIVE
I		180079-GVV-VVU2
1	M/s Inland Power Limited	Sample Code
١		
1	Tonagatu, Gola,	LAB OCIONEL CATA
١	DistRamgarh, Jharkhand	Date of issue
1		Dollows 2 to 1

DistKamgarn, Jn	AFKIIBIIU	Details O	Sampling
Sample	Particulars	Date of sampling	26-09-2018
Sample Name/Description	Ground Water	Sample Received Date	26-09-2018
Sample Quantity	(Wo little (1000 th) X =/		YBAEEL/SP/01/00
Sample pkg. Condition	Sealed in plastic bottle	Sampling Protocol Sample collected by	Own / Mukesh Singh & team
Test started on	26-09-2018	Sample collected by Sampling Location	Bariyatu Village
Test completed on	03-10-2018	_ <u></u>	Deminal had imit (As

est comr	pleted on	03-70-2010				
			Tes	t Result	Method Name	Permissible Limit (As per IS 10500 Specification)
SI. No.	Tested Paramet	ter	Unit	Results	IS:3025 (Part-11)	6.5 to 8.5
1.				6.58	2550 B	< 40° C
1. 2.	pH value		°C	27.1	IS:3025 (Part-16)	2000 mg/l
	Temperature		mg/l	854.0	4500 F C	1.5 mg/l
3.	Total dissolved solid		mg/l	0.6		600mg/l
4.	Fluoride (as F)		mg/l	121.2	IS:3025 (Part-21)	1000mg/l
5.	T. Hardness (as CaCC	<u>/3)</u>	mg/l	5.8	IS:3025 (Part-32)	5NTU
6.	Chloride (as Cl)		NTU	1.0	IS:3025 (Part-10)	45 mg/l
7.	Turbidity		mg/l	3.5	4500 NO3 B	0.3 mg/l
8.	Nitrate (as NO ₃)		mg/l	ND (DL 0.1)	3111 B	0.0 11131
9.	Iron (as Fe)		mg/l	Agreeable	IS:3025 (Part-05)	
10.	Odour		mg/l	5	IS:3025 (Part-4)	600 mg/l
11.	Colour		mg/l	104.0	IS:3025 (Part-23)	100mg/l
12.	Alkalinity (as CaCO ₃		mg/l	8.8	IS:3025 (Part-46)	200 mg/l
13.		<u> </u>	mg/l	33.9	IS:3025 (Part -40)	0.05 mg/l
14.			mg/l	ND (DL 0.003)	APHA 3114 B	15 mg/l
15.				ND (DL 0.01)	APHA 3111 B	
16.			mg/l mg/l	ND (DL 0.07)	IS:3025 (Part-26)	1.0 mg/l
17.				19.3	IS:3025 (Part-24)	400 mg/l
18.	Sulphate (as SO ₄)		mg/l	ND (DL 0.01)	APHA 3111 B	1.5 mg/l
19.	Copper (as Cu)	1	mg/l	nd of Test****		

Remarks According to tested parameter, the tested comple and applicable parameter.	Cu)	According to tested parameter, the results found within prescribe limit of Drinking water specification IS 10	500
 The results listed refer only to the tested sample and applicable plantage. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report can be reproduced, except when in full, without the written permission of the Lab In-charge. The samples received shall be destroyed after two month from the date of issue of the certificate unless specified otherwise sample for biological testing will be destroyed after one two week of testing. 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 	The results listed refer only to the This report, in full or in part, sha This report can be reproduced, The samples received shall be sample for biological testing will the liability of the laboratory is All disputes are subjected to the	The results listed refer only to the tested sample and application parameters. This report, in full or in part, shall not be used for advertising or as evidence in any court of law. This report can be reproduced, except when in full, without the written permission of the Lab In-charge. The samples received shall be destroyed after two month from the date of issue of the certificate unless specified sample for biological testing will be destroyed after one two week of testing. The liability of the laboratory is limited to the invoiced amount. At disputes are subjected to the Renchi Jurisdiction.	

1 01/ 0	18/4-	Jun 410/18
Sainaffnin	Checked by	Issued by
Tested by	Bajrang Kumar	Umesh Das
Saima Afrin	Section In-Charge	Technical Manager
tap Analyst	Signatory	

Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory



An ISO 9001: 2008 & OHSAS 18001:2007 Certified Laboratory

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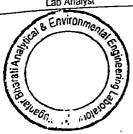
	Jhackband State Polluse of	Control Board (JSP)	(B)
ſ	Jackhand and Toman in	URL.	TC78131810000047P
١	Water Test Report	Polorance	YBAEELWAILIC/Sep-18/13
١		A In Carlo	180926-GW-W01
1	Ma Intand Power Limited		YDAEEL/RAM/18-09-26/GW/01
	Tonagatu, Gola,	Kohoit in	4th October 2018
- 1	DistRamgarh, Jharkhand	Date of issue	4 October 2010

	ar (titaria	Date of 1880s	
Sample	Particulars		26-09-2018
Sample Name/Description	Ground Water	Date of sampling	26-09-2018
Sample Quantity	Two litre (1000 ml X 2)	Sample Received Date	YBAEEL/SP/01/00
Sample pkg. Condition	Sealed in plastic bottle	Sampling Protocol	Own / Mukesh Singh & team
Test started on	26-09-2018	Sample collected by	Bhamni Village
Test completed on	03-10-2018	Sampling Location	Diramin surrey.

est com	pleted on	03-10-2018	Sampling cooks		
		Tes	st Result	Method Name	Permissible Limit (As
SI. No.	Tested Parame	eter Unit	Results		per IS 10500 Specification
1,	pH value		6.32	IS:3025 (Part-11)	6.5 to 8.5 < 40° C
2.	Temperature	• C	27.1	2550 B	2000 mg/l
3.	Total dissolved solid		440	IS:3025 (Part-16)	1.5 mg/l
4.	Fluoride (as F)	mg/l	0.5	4500 F C	600mg/l
5.	T. Hardness (as CaC		260.5	IS:3025 (Part-21)	1000mg/l
6.	Chloride (as CI)	mg/l	71.4	IS:3025 (Part-32)	5NTU
7.	Turbidity	NTU	4.0	IS:3025 (Part-10)	45 mg/l
8.	Nitrate (as NO ₃)	mg/l	29.8	4500 NO3 B	0.3 mg/l
9.	Iron (as Fe)	mg/l	0.11	3111 B IS:3025 (Part-05)	
10.	Odour	mg/l	Agreeable	IS:3025 (Part-05)	
11.	Colour	mg/l	< 5	IS:3025 (Part-23)	600 mg/l
12.	Alkalinity (as CaCO) mg/l	138	IS:3025 (Part-46)	100mg/l
13.	Magnesium (as Mg+		16.7 76.7	IS:3025 (Part -40)	200 mg/l
14.	Calcium (as Ca+)	mg/l	·	APHA 3114 B	0.05 mg/l
15.	Arsenic (as As)	mg/l	ND (DL 0.003) 0.11	APHA 3111 B	15 mg/l
16.		mg/l·	ND (DL 0.07)	IS:3025 (Part-26)	1.0 mg/l
17.		mg/l	57.0	IS:3025 (Part-24)	400 mg/l
18.		mg/l	ND (DL 0.01)	APHA 3111 B	1.5 mg/l
19.	Copper (as Cu)	mg/l	nd of Tost****	is a CD sinking water spi	

	End of Test
Remarks Specific contractual notes	According to tested parameter, the results found within prescribe limit of Drinking water specification IS 10500 The results 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. This report can be reproduced, except when in full, without the written permission of the Lab In-charge The samples received shall be destroyed after two month from the date of issue of the certificate unless specified otherwise and sample for biological testing will be destroyed after one two week of testing. 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
1	ND - not detected , DL - Detectable limit

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Saimasfrin	To June	4/10/18
	Checked by	Issued by
Tested by	Bajrang Kumar	Umesh Das
Saima Afrrin	Section In-Charge	Technical Manager
Lab Analyst)	



Authorized Signatory
Chemical Section
Yugantar Bharati Analytical &
Environmental Engin ering Laboratory



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TABLE SCHOOL TO A CONTRACT OF A CONTRACT CONTRACT OF SCHOOL CONTRACT O Alto Alama (Diete Perist) Control Bond (JSPCB)

URL	TC78131810000046P
Reference	YBALELWALLCISep-18/12
Sample Code	180926-SW-W01
Report ID	YBAEEL/RAM/18-03-28/SW/01
Date of Issue	4th October 2018
	Reference Sample Code Report ID

Sample	Particulars	Detail	ls of Sampling
Sample Name/Description	10 Namo/Description Surface Water		26-09-2018
Sample Quantity			26-09-2018
Sample pkg. Condition	Sealed in plastic bottle	Sampling Protocol	YBAEEL/SP/01/00
Test started on	26-09-2018	Sample collected by	Own / Mukesh Singh & team
Test completed on	03-10-2018	Sampling Location	In front of T.G. Building

Sampling Eccanon White the Contains								
Test Result								
SI. No.	Tested Parameter	Unit	Results	Method Name	Permissible Limit (As per IS 10500 Specification)			
<u>1.</u> 2.	рН		7.48	IS:3025 (Part-11)	6.5 to 8.5			
	Temperature	°C	27.2	APHA 2550 B	< 40° C			
3.	Total Dissolved Solid	mg/l	680.0	IS:3025 (Part-16)	2000 mg/l			
4. _	Conductivity	µs/cm	1144	IS:3025 (Part-14)				
5.	Nitrate (as NO1)	mg/l	2.2	APHA 4500 NO3 B	100 mg/l			
6.	T. Alkalinity (as CaCO ₁)	mg/l	136.0	IS:3025 (Part-23)	600mg/l			
<u>7.</u>	T. Hardness (as CaCO ₃)	mg/l	401.2	IS:3025 (Part-21)	600mg/l			
8.	Chloride (as CI)	mg/l	93.9	IS:3025 (Part-32)	1000mg/I			
9.	BOD	mg/l	2.4	IS:3025 (Part-44)	30mg/l			
10.	COD	1 mg/l	10.8	IS:3025 (Part-58)	250mg/1			
<u>11.</u>	Oil & grease	mg/l	1.2	IS:3025 (Part-39)	10mg/1			
12.	Copper (as Cu)	mg/l	ND (DL 0.01)	APHA 3111 B	1.5mg/l			
13.	Odour	mg/l	Agreeable	IS:3025 (Part-5)	_			
14.	Sulphate (as SO ₄)	mg/l	56.0	IS:3025 (Part-24)	400mg/l			
15.	Iron (as Fe)	mg/l	ND (DL 0.1)	APHA 3111 B	0.3mg/l			
16	Calcium (as Ca+)	mg/l	75.0	IS:3025 (Part-40)	200mg/l			
17.	Magnesium (as Mg+)	mg/l	51.8	IS:3025 (Part-37)	100mg/1			
<u>18.</u>	Zinc (as Zn)	mg/l	ND (DL 0.01)	APHA 3111 B	15mg/l			
19	Fluoride (as F-)	mg/l	1.0	4500 F C	1.5mg/l			
20.	Turbidity	UTM	24.0	IS:3025 (Part-10)	5NTU			
21.	Potassium (as K)	mg/t	11	APHA 3111-B				
22.	Sodium (as Na)	mg/l	44	APHA 3111-B	-			

	End of rest
Remarks	According to tested parameter, the results found within prescribe limit of Drinking water specification IS 10500
Specific	The results listed refer only to the tested sample and applicable parameter.
contractual notes	This report, in full or in part, shall not be used for advertising or as evidence in any court of law.
	1 • This report can be reproduced, except when in full, without the written permission of the Lab In-charge
	The samples received shall be destroyed after two month from the date of issue of the certificate unless specified otherwise and sample for biological testing will be destroyed after one two week of testing.
,	i • 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

Sainalfnin	Tefer-	Jul 18
Tested by	Checked by	Issued by
Saima Afrrin	Bajrang Kumar	Umesh Das
an Archai	Section In-Charge	Technical Manager
30	Authorized Signatory	

Authorized Signatory **Chemical Section** Yugantar Bharati Analytical & Environmental Engineering Laboratory

+ 100 9001: 2008 & OHSAS 18001:2007 Certified Laboratory

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AMPLATICA & ENVIRONMENTAL ENVINEERING LAB MATORY

National Accreditation Exarding a string & Calibration Laborator (NABL), New Delh

	LAB ACCREDITED BY WEIGHT ALL THE	- Design LISPO	:B:
1	The khand State Poljuli	Cogra, Sawa USES	TC78131810000045P
ı	Water Test Report		YBAEELWA/L/C/Sep-18/12
į	Issued to:		
	M/s Inland Power Limited	Sample Code	180926-DW-W01
	Tonagatu, Gola.	Report ID	YBAEEL/RAM/18-09-26/DW/01
	DistRamgarh Jharkhand	Report is	4տ October 2018
	Gogi-Nauluarii, Jharkilaliu	Data of Issue	1 4 00.000

			The state of the s
Sample	Particulars		s of Sampling 26-09-2018
Sample Name/Description	Drinking Water	Date of sampling	26-09-2018
Sample Quantity	Two litre (1000 ml X 2)	Sample Received Date	YBAEEL/SP/01/00
Sample pkg. Condition	Sealed in plastic bottle	Sampling Protocol	Own / Mukesh Singh & team
Test started on	26-09-2018	Sample collected by	
Test completed on	03-10-2018	Sampling Location	Near Mess Area

		Te	st Result		Permissible Limit (As
SI. No.	Tested Parameter	Unit	Results	Method Name	per IS 10500 Specification)
			7.12	IS:3025 (Part-11)	6.5 to 8.5
<u>1.</u>	pH		27,1	APHA 2550 B	< 40° C
2.	Temperature	°C	338.0	IS:3025 (Part-16)	2000 mg/l
3.	Total Dissolved Solid	mg/l		IS:3025 (Part-14)	
4.	Conductivity	µs/cm	580	APHA 4500 NO3 B	100 mg/l
5.	Nitrate (as NO ₃)	mg/l	2.2	IS:3025 (Part-23)	. 600mg/l
6.	T. Alkalinity (as CaCO ₃)	mg/l	192	IS:3025 (Part-21)	600mg/l
7.	T. Hardness (as CaCO ₃)	mg/l	246.4	IS:3025 (Part-32)	. 1000mg/l
8.	Chloride (as CI)	mg/l	18.5		30mg/l
9.	BOD	mg/l	0.8	IS:3025 (Part-44)	250mg/l
10.	COD	mg/l	7.2	IS:3025 (Part-58)	10mg/l
11.	Oil & grease	mg/l	0.8	IS:3025 (Part-39)	1.5mg/l
12.	Copper (as Cu)	mg/l	ND (DL 0.01)	APHA 3111 B	1.5119/
13.	Odour	mg/l	Agreeable	IS:3025 (Part-5)	400mg/l
14.	Sulphate (as SO ₄)	mg/l	54.2	IS:3025 (Part-24)	
		mg/l	ND (DL 0.1)	APHA 3111 B	0.3mg/l
15.	Iron (as Fe)	ma/l	83.2	IS:3025 (Part-40)	200mg/l
16.	Calcium (as Ca+)		9.3	IS:3025 (Part-37)	100mg/l
17.	Magnesium (as Mg+)	mg/l	0.23	APHA 3111 B	15mg/l
· 18.	Zinc (as Zn)	mg/i	0.23	4500 F C	1.5mg/l
19.	Fluoride (as F-)	mg/l	1.0	IS:3025 (Part-10)	5NTU .
20.	Turbidity	NTU	1	APHA 3111-B	_
21.	Potassium (as K)	mg/l	2.0	APHA 3111-B	
	Sodium (as Na)	mg/l	17.0	APPA STITED	

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L_	ZZ. Godium	**************************************
3	Remarks Specific Contractual notes	According to tested parameter, the results found within prescribe limit of Drinking water specification IS 10500 The results 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. This report can be reproduced, except when in full, without the written permission of the Lab In-charge The samples received shall be destroyed after two month from the date of issue of the certificate unless specified otherwise and sample for biological testing will be destroyed after one two week of testing. The liability of the laboratory is limited to the invoiced amount.
		All disputes are subjected to the Ranchi Jurisdiction .
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	Checked by	Issued by
Tested by	Bajrang Kumar	Umesh Das
Son Commen	Section in-Charge	Technical Manager
Cab Analyst %	Cianaton/	

Authorized Signatory Chemical Section
Yugantar Bharati Analytical &
Environmental Engineering Laboratory

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AND THE MENTION OF ENVIRONMENT OF FINGHERING LABORATIONS

LAB 40 QUEDITED BY

Jhari-hand State Pollutic Control Board (JSPCB)

National Accordination B and for Testing & Collisions of Energy (1916B). Feb. 991

Paris

Amb:	and Ala Ovellas Dame			URL No.			TC7813182	
	ent Air Quality Repo	ort		Ref. No.			YBAEELWA	
Report Release Date	directise Date 4 October 2016					lon	Ambient Air	Quality (Buffer Zone)
Report ID	YBAEEL/RAM/18 - 09-	26/AAQ/01	1_		Descript		Electricity P	ower Plant
Sampling Date	26th- 27th September	, 2018		Type of	Industry	Site A	Serenghatu	
Sampling Duration	24 hrs.			. •	_	Site B	Bariatu Villa	
Name of Industry			1	Samplin	ng L			
				Locatio	[_	Site C	Urba Village	
M/s - Inland Power Ltd.						Site D	Tonagatu Village	
Tonagatu, Gola, Dis	st Ramgarh		Ì	Work C	rder No.			
Jharkhand			1			ion	Partly - Cloudy	
				Weather Condition			73%	
				Relative Humidity		34ºC		
				Avg. Ambient Temp.			Mr. Mukesh Singh& Team	
Customer Ref.	Mr. S.N. Sinha			Sample drawn by		WII. Munes	, oling	
Monitored			Sam	Sampling Location			Units	NAAQS Industrial Area
Parameters	Method	Site A	Site	В	Site C	Site D		
Particulate Matter (PM10)	IS 5182 Part 23	81.50	87.4	4	85.29	85.10	ftl,m3	100µg/m3
Particulate Matter (PM2.5)	CPCB Guideline	37.08	38.7	75	35.42	36.25	µg/m3	60µg/m3
Sulphur Dioxide (SO2)	IS 5282 Part II	13.07	15.9	91	13.82	16.48	hq.w3	80µg/m3
Sulphui Bioxide (552)	IS 5182 Part VI	22.88	23.5	58	21.89	23.30	µg/m3	80µg/m3

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

Remarks

Note

7

All values are observed well within the limit

All values are expressed in as unit.

The results 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 samples collected shall be destroyed after 45 days from the date of issue of the certificate unless specified otherwise

The liability of the laboratory is limited to the invoiced amount

All disputes are subjected to the Ranchi Jurisdiction

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Tested by

h & Environment Mukesh Singh Field Analyst

Verified by Amit Kumar Sinha

Lab Analyst

Issued by **Umesh Das**

Technical Manager
Authorized Signatory Atmospheric Pollution

Yugantit militarical &

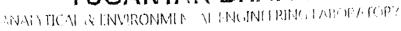
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LAB ACCREDITED BY

National Accorditation B. and for Tosting & Calibratic a Emborator, (NABL), New Delice Jhas band State Pollutic - Central Board (JSPCB)

Amb	lent Air Quality Re	port		URL No.			TC78131820000020F		
Report Release Date	4th October 2018			Ref. No.			YBAEEL/WA/L/A/Sep18		
Report ID	YBAEEL/RAM/18 - 09	25/AAQ/01		Sample De	scripti	on	Ambient Ai	r Quality (Core Zone)	
Sampling Date	25th- 26th Septemb	Type of Inc	lustry		Electricity	Power Plant			
Sampling Duration	24 hrs.					Site A	Near Main	Gate	
Name of Industry	Sampling	5	Site B	Near Switc	h Yard				
	Locations	5	Site C	Near Gues	Rest Room				
M/s Inland Power Ltd. Tonagatu, Gola, Dist Ramgarh Jharkhand					-	Site D	Near B. Ga	te .	
				Work Orde	er No.		4		
				Weather Condition			Partly - Cloudy		
		Relative Humidity			73%				
					Avg. Ambient Temp.			34ºC	
Customer Ref.	Mr. S.N. Sinha			Sample drawn by Mr. Mukesh Singh& Team			h Singh& Team		
Monitored	-		Sampling Location				Units	NAAQS Industrial Area	
Parameters	Method	Site A	Site E	3 Sit	e C	Site D	Units	NAAQ3 IIIdusulai Arca	
Particulate Matter (PM10)	IS 5182 Part 23	95.52	92.55	5 83	.59	91.22	µg/m3	100 µg/m3	
Particulate Matter (PM2.5)	CPCB Guideline	38.33	37.92	2 40	.83	33.75	µg/m3	60 µg/m3	
Sulphur Dioxide (SO2)	IS 5282 Part II	18.56	17.04	4 17	.61	15.34	µg/m3	80 μg/m3	
Nitrogen Dioxide (NO2)	IS 5182 Part VI	31.44	28.3	5 33	.12	23.30	μg/m3	80 µg/m3	

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

1									
<u> </u>	All values are observed well within	n the limit							
Remarks	All values are expressed in as unit								
Note	to the tes	sted sample and applicable parameter.							
1	ti- full or in part shall no	t be used for advertising of as evidence in any c	ourt of law						
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1	Landlacted shall be desired	oved after 45 days from the date of issue of the t	certificate unless specified otherwise						
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ļ	All disputes are subjected to the Rand	chi Jurisdiction							
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	Bhara)	(ਨੂੰ)	Yugania and Analytical &						
	15 /	<u>S. I</u>	- tugaritati pring Laboratory						
	1 % \ / 8	8 2009 8 OHEAR 18001-2007	Certified Environmental Engineering Laboratory						
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ANALYTICAL & ENVIRONMENTAL ENGINEERING OR BONGLOWY

Whaterentrom National Accreditation is add on Today * Calibratic State Police on Control Board (JSPCB)

BIARLE DE D

No	URL No.		TC78131820000021F		
Noise Monitoring Report		Rol, No.		YBAEELWA/L/A/Sep18	
Report ID	YBAEEL/WS/18-09-25/Nolse/01	Sample Doscr	intion	Ambient Noise	
Sampling Date	25th - 26thSeptember, 2018	Type of Indust	<u> </u>	Electricity Power Plant	
Sampling duration	24 hrs.	Work Order No			
Name of Industry			N1	Main Gate	
We in		N2	Weigh Bridge		
M/s - Inland Power Ltd. Tonagatu, Gola, Dist Ramgarh Jharkhand Customer Rep. Mr. S.N. Sinha		Sampling	N3	Cooling Tower	
		Locations	N 4	T.G. Building	
			N 5	Hostel	
		Weather Cond	ition	Partly - Cloudy	
		Relative Humid	dity	73%	
		Average Temp	erature	34°C	
		Monitored by		Mr. Mukesh Singh& Team	

		monitored by		Mir. Mokesh Origina Team			
	Locations	Method	Leq in dB (Day Time)	Leq in dB (Night Time)	(Norms) CPCB		
N 1	Main Gate	IS:15575.1.2005	65.3	52.2			
N 2	Weigh Bridge	IS:15575.1.2005	65.5	51.2			
N 3	Cooling Tower	IS:15575.1.2005	67.9	57.7	Industrial Area Day 75 dB Night 70 dB		
N 4	T. G. Building	IS:15575.1.2005	72.0	65.1			
N 5	Hostel	IS:15575.1.2005	53.3	49.0			
		******* End of Report*	*****				

CPCB Sta				Day Time	Night time	
<u>A</u>	Industrial Area			75.0	70.0	
B	Commercial Area			65.0	55.0	
C	Residential Area			55.0	45.0	
D	Silence Zone			50.0	40.0	
Remarks	<u> </u>	All values are observed			40.0	
pecific	contractual	Day Time - From 6:00 Am	to 10:00Pm, Night Time - From 10:00 PM to 6:0	00 Am		
The results listed refer only to the tested sample and applicable page			to the tested sample and applicable paramete	neler.		
		This report cannot be more	, shall not be used for advertising or as evidence	ce in any court of law		
	•	The samples collected sha	oduced, except when in full, without the written	permission of the Lab In-charge		
The samples collected shall be destroyed after 45days from the date of The liability of the laboratory is limited to the invoiced amount			ssue of the certificate unless specified otherwise			
	•	All disputes are subjected t	o the Ranchi Jurisdiction			
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- Control by		- Verified by		Issued by		
Mukesh Singh Amil Kumar Sinha		Arnit Numar Sinna		Umesh Das		
		18	Lab Analyst		nnical Manager	
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