

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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

		STACK MONITO	RING TEST REPORT			
Report Release Date	5th April, 2018		Ref.No.	YBAEEL/WA/L/A/March-18/12		
Report ID	YBAEEL/RAM/18-03-2	9/Stack/01	Sample Description	Stack Emission		
Sampling Date	29.03.2018		Type of Industry	Power Generation		
Name of Industry			Sampling Location	Port hole		
			Pollution Control System	ESP + Bag Filter		
M/s Inland Power Limit	ed					
Tonaghatu, Gola, Ramo	garh,		Ladder	Permanent		
Jharkhand	•		Platform	Permanent		
			Weather Condition	Clear		
ustomer Ref. Mr S.N. Sinha			Sample drawn by	Mr. Mukesh Singh & Team		
General Information						
Stack No. if any				One		
Height of Stack from gi		in meter		95		
Inner Dimension of Sta		in meter		3		
Height of porthole from	n ground	in meter		48		
	port & Oven Description					
Type of Fuel				Char + Washry Reject		
Fuel Consumption			1400	1 - 1500 MT/ Day		
Production Capacity			4	63 MW		
Result of Analysis						
Atmospheric temperat		in ⁶ C	32			
Stack gas temperature		in ° C	143			
Stack gas velocity		in m/s	9.23 168309.24			
Volumetric flow rate Concentration of Partie	Aulata Matter	in Nm³/hr	31.44			
Concentration of Sulph		in mg/Nm³ In mg/Nm³	19.47			
Concentration of Oxide		in mg/Nm³	22.38			
Concentration of CO	oo or moogen	in mg/Nm³	32			
Concentration of Hg		in mg/Nm³	0.004			
Emission Rate						
Dust		kgihr		5.29		
Sulphure dioxide		kg/hr		3.27		
Oxides of nitrogen		kg/hr		3.76		
			of REPORT *****			
	are observed well within the	limit				
	ts listed refer only to the testi					
			g or as evidence in any court of law			
			out the written permission of the Lab			
The same	oles collected shall be destro	yed after 45 days from	n the date of issue of the certificate t	unless specified otherwise		
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Teste	d by		erified by	Issued byage!		
	5 10		andan Kumar	Umesh Cat Mannalytica		
Field A	nalyst - S Environm	Section	on Incharge	Texas diagram and Lan		
	nalyst Senvironme	Engineering Con.		Issued by Issued by Umest cat Manager Analytical Terrorical processor common Lab Yuganiar Environmental Engineering Lab		







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National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi Jharkhand State Pollution Control Board (JSPCB) (T 2993 T-2918)

STACK MONITORING TEST REPORT

(B-1874)

Report Release Date	22-Jan-18	Protocol	1S 11255	Part III	Part I	
Report ID	YBAEEL/RAM/17-12-28/Stack/01	Sample De	scription	Stack Emission		
Sampling Date	28th December, 2017	Type of Inc	łustry	Electricity Power Plant		
Name of Industry		Sampling l	Location	-	Port hole	
•	M/s - Inland Power Limited			em	ESP + Bag filter	
Tonagatu, Gola	Laddei			Parmanent		
DistRamgarh, Jhark	hand	Platform			Parmanent	
		Weather C	ondition		Clear	
Customer Ref.	Mr. S. N. Sinha	Sample dra	wn by	Own/ Neeraj K	Cumar & team	
General Information		•				
Stack No.	if any			One		
Height of S	Stack from ground in me	tre		95		
Inner dime	ention of stack in me	tre		3		
Height of	porthole from ground in me	tre		48		
Fuel Characteristic Re	port					
Type of Fu	•			Coal + Dola Ch	nar + Washry reject	
Fuel Cons			1400 - 1500 MT/Day			
	n Capacity		63 MW		•	
Result of Analysis						
1	ric temperature	ın ^u K		302		
· '	temperature	in $^{\vee}$ K		416		
Stack gas		in m/s		9.88		
_	c flow rate	in Nm³/hr		180180,11		
Concentra	ition of Particulate Matter	in mg/Nm3		27.63		
Concentra	ition of Sulphur dioxide	in mg/Nm²		26.89		
	ition of Oxides of Nitrogen	in mg/Nm³		8.39		
	ition of CO	in mg/Nm²		19		
Concentra	in mg/Nm3		0.003			
nission Rate						
Particulat	e Matter	kg/hr		4.98		
Sulphure	dioxide	kg/hr		4.85		
Oxides of		kg/hr		1.51		
5,,,,,,,		END of REPOR	T *****			

*** END of REPORT *****

Remarks All values are observed well within the limit

Note

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Il disputes are subjected to the Ranchi Jurisdiction

Jesie by Pramod Singh Lab Analyst

Vached by Brij Nandan Kumar Section In-charge

Issued by Umesh Das

Technical Manager

Yuganlar Eharah Analytical & Environmental Engineering Laboratory







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Post Box no. 32



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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

(T 2982, T-2918) (B-1874)

STACK MONITORING TEST REPORT

Report Release Date	1st November 2017		Protocol	IS 11255	Part III	Part I	
Report ID	YBAEEL/RAM/17-10-25/Sta	ck/01	Sample Des	cription	ı	Stack Emission	
Sampling Date	25th October, 2017		Type of Ind	ustry		Electricity Power Plant	
Name of Industry			Sampling L	ocation		Port hole	
M/s - Inland Power Limited			Pollution Co	ontrol System		ESP + Bag filter	
Tonagatu, Gola DistRamgarh, Jharkhand			Ladder Platform			Parmanent Parmanent	
Customer Ref.	Mr. S. N. Sinha		Sample dra	wn by	Own/ Mukesh S	Singh & team	
General Information					1	<u> </u>	
Stack No	. if any				One		
Height of Stack from ground in metre			95				
Inner dimention of stack in metre					3		
Height of	porthole from ground	in metre			48		

Fuel Characteristic Report	
Type of Fuel	Coal + Dola Char + Washry reject
Fuel Consuption	1400 - 1500 MT/Day
Production Capacity	63 MW

Atmospheric temperature	in " K	305	
Stack gas temperature	in " K	471	
Stack gas velocity	in m/s	7.37	
Volumetric flow rate	in Nm³/hr	118782.82	
Concentration of Particulate Matter	in mg/Nm³	31.10	
Concentration of Sulphur dioxide	in mg/Nm²	22.86	
Concentration of Oxides of Nitrogen	in mg/Nm²	8.17	

Emission Rate			1
Particulate Matter	kg/hr	3.69	l l
Sulphure dioxide	kg/hr	2.72	
Oxides of nitrogen	kg/hr	_0.97	

****** END of REPORT ******

Remarks All values are observed well within the limit

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Tester by Mukesh Singh

Field Analyst

Verified by

Brijnandan Kumar Section Incharge

AS 18001:2007 Certified Laboratory Environmenta

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An 150 9001: 2008 & OHE Post Box no 32

Sidroul |

Ranchi - 834010 (Jharkhand)

Ph. 0651-6003372 098351-97960 : 0651 2260787 | E-mail ybaeel@gmail.com



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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(F 2982, T-2918) (B-1874)

STACK MONITORING TEST REPORT

Report F	Release Date	11th July 2017		Protocol	IS 11255	Part III	Part I	
Report I	Report ID YBAEEL/RAM/17-6-29/Stack/01		Sample De	scription	Stack Emission			
Sampling Date 29th June, 2017			Type of Inc	dustry		Electricity Power Plant		
Name of Industry M/s - Inland Power Limited				Sampling 1	Location		Port hole	
				Pollution Control System Ladder Platform			ESP + Bag filter	
Tonagatu, Gola DistRamgarh, Jharkhand			Parmanent					
			Parmanent					
				Weather C	ondition		Clear	
Custom	er Ref.	Mr. S. N. Sinha	_	Sample dr	awn by	Own/ Mukesh Singh & team		
General	Information			_				
	Stack No.	if any				One		
		in metre	e 95					
		in metre			3			
	Height of	porthole from ground	in metre			48		

Fuel Characteristic Report	
Type of Fuel	Coal + Dola Char + Washry reject
Fuel Consuption	1400 - 1500 MT/Day
Production Capacity	63 MW

Result	of Analysis			
	Atmospheric temperature	ın ^v K	311	
	Stack gas temperature	ın [∪] K	482	
	Stack gas velocity	in m/s	7.09	
	Volumetric flow rate	ın Nm³/hr	111593.46	
	Concentration of Particulate Matter	in mg/Nm²	48.93	
	Concentration of Sulphur dioxide	in mg/Nm³	42.57	
	Concentration of Oxides of Nitrogen	in nig/Nm²	18.79	
l.				

Emission Rate			
Particulate Matter	kg/hr	5.46	
Sulphure dioxide	kg/hr	4.75	'
Oxides of nitrogen	kg/hr	2.10	

***** END of REPORT *****

Remarks All values are observed well within the limit

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Tested by Mukesh Singh Field Analyst

Verified by Bajrang Kumar Lab Analyst

Issued by Technical Acobage Yugantar Shaicati Manays, al & toralor Environmental Engineering

SO 9001: 2008 & OHSAS 18001:2007 Certified Laboratory

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Report Releas	e Date	5th April, 2018		Ref. No.		YBA	YBAEEL/WA/L/A/March-18/12	
Report ID		YBAEEL/RAM/18-03-29/Nois	se/01	Sample Description		Amt	pient Noise	
Name of Indu	strv			Type of In	dustry	Pow	er Generation	
M/s Inland Powe		1		Sampling	Duration	24 H	rs.	
Tonaghatu, Gola	a, Ramga	rh,	Sample Collected I				Mukesh Singh& team	
Jharkhand				Protocol	de la Carlo	_	15575.1.2005	
				Customer	Rep.	Mr.	S.N. Sinha	
Locatio	n	Date & Time	L	eq in dB (Day)	Leg in (Nigh)		(Norms) CPCB	
	-	29.03.18 - 30.03.18						
Main Gate		10:20 am - 10:20 am		66.3	66.3			
Weigh Bridge		29,03.18 - 30.03.18						
		10:30 am - 10:30 am	<u> </u> 	68.6	68.6 60.7			
Cooling Tower		29.03.18 - 30.03.18	70.0		65.0		Industrial Area	
		10:45 am - 10:45 am		72.3	72.3 65.9		Day - 75 dB Night - 70 dB	
T.G. Building		29 03.18 - 30.03 18	73.2		68.9	.		
		11:00 am ~ 11:00 am		73.2				
dostel		29 03.18 - 30.03.18	58.6		58.6 53.0			
× =		11:15 am - 11:15 am						
Remarks :-	All val	lues are observed well within th	e limi	1				
Note: -	The res	ults listed refer only to the tested sa	imple a	nd applicable p	arameter.			
	This re	port, in full or in part, shall not be u	sed for	advertising or a	ns evidence in	any cou	rt of law	
	Tlus rep	port cannot be reproduced, except v	shen in	full, without th	e written pern	iission (of the Lab In-charge	
	The sau	nples collected shall be destroyed a	fær 45d	days from the da	ite of issue of t	he certi	ficate unless specified otherwise	
_	The liab	bility of the laboratory is limited to	the invi	orced amount	_			
	All disj	putes are subjected to the Ranchi Ju-	risdictio	on				
Jun	took &	ingle	Det.	Rusna		سر	3/4/18	
	Tested b	40	1,000	erified by	-		Issued by Manage	
	Mukesh Sir Field Anal	ng A		ndan Kumar			Tect (See Man 2) Andly	
	reid Attal	Sea Control	Section	n In - Charge			Technical tal Eugheen	
		Punda Brates				4	Issued by Manage Umest head Manage Analy Yugamar an Engineering Yugamar Islambar Engineering	



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· (T 2982, T-2918) (B-1874)

Ambient Noise Quality Test Report

Report Release Date	22-Jan-18	Protocol	IS: 15575.1.2005				
Report ID	YBAEEL/RAM/17-12-27/Noise/01	Sample Description	Ambient Noise level				
Name of Industry		Type of Industry	Eletricity Power Plant				
M/s Inland Power Ltd.		Sampling Duration	24 Hrs.				
,	Tonagatu, Gola, DistRamgarh		Mr. Neeraj Kumar & team				
Jharkhand		Sampling Date	27.12.2017 - 28.12.2017				
		Customer Rep.	Mr. S.N. Sinha				

Station No.	Leq in dB (Day)	Leg in dB (Night)	Norms (CPCB)
N 1	66.4	60.5	
N 2	68.3	60.7	
N 3	72.1	62.7	Day - 75dB Night -70dB
N 4	73.0	68.5	
N 5	59	53.8	
	N 1 N 2 N 3 N 4	N 1 66.4 N 2 68.3 N 3 72.1 N 4 73.0	N 1 66.4 60.5 N 2 68.3 60.7 N 3 72.1 62.7 N 4 73.0 68.5

Ren All values are observed well within the limit

Not: Day Time - From 6:00 Am to 10:00Pm, Night Time - From 10:00 PM to 6:00 Am

The results listed refer only to the tested sample and applicable parameter.

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Ming lamas Tested by Neeral Kumar

Field Analyst

(Les beres) Verified by Brij Nandan Kumar Lab Analyst

Issued by Umesh Das Technical Manager Technical Mu...

Yugantar Bharati Analytica. Environmental Engineering Laboratur,







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> (T 2982, T-2918) (S-1874)

Ambient Noise Quality Test Report

Report Release Date	31st October 2017	Protocol	IS: 15575.1.2005
Report ID			Ambient Noise
Name of Industry		Type of Industry	Eletricity Power Plant
M/S Inland Power Limi	ted	Sampling Duration	24 Hrs.
At- Tonagatu, Gola		Sample Collected by	Mr. Mukesh Singh & team
Dist Dhanbad, State- jharkhand		Sampling Date	23.10.2017 - 24.10.2017
		Customer Rep.	Mr. S.N. Sinha

Location	Station No.	Leg in dB (Day)	Leg in dB (Night)	Norms (CPCB)
Main Gate	N 1	69.2	62.5	
Weigh Bridge	N 2	69.5	61.5	
Cooling Tower	N 3	67.7	63.2	Day - 75 dB, Night -70 dB
T.G.Building	N 4	66.8	62.1	
Hostel	N 5	59.7	54.7	

Remarks

All values are observed well within the limit

Note

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

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Mukesh Singh Field Analyst

Verified by Brijnandan Kumar Section Incharge





Environmental Engineering Labo







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> (T 2982, T-2918) (B-1874)

Ambient Noise Quality Test Report

Report Release Date	11th July 2017	Protocol	IS: 15575.1.2005
Report ID	YBAEEL/RAM/17-06-28/Noise/01	Sample Description	Ambient Noise level
Name of Industry		Type of Industry	Eletricity Power Plant
M/S Inland Power Limited		Sampling Duration	24 Hrs.
At- Tonagatu, Gola		Sample Collected by	Mr. Mukesh Singh & team
Dist Ramgarh, State- j	harkhand	Sampling Date	28.06.2017 - 29.06.2017
		Customer Rep.	Mr. S.N. Sìnha

cation	Station No.	Leq in dB (Day)	Leq in dB (Night)	Norms (CPCB)
Main Gate	N 1	67.8	51.4	
Weigh	N 2	68.1	58.3	
Cooling	N 3	74.2	68.5	Day - 75 dB, Night -70 dB
ng	N 4	72.7	69.3	
Hostel	N 5	61.4	53.0	
	Weigh Cooling	Main Gate N 1 Weigh N 2 Cooling N 3 ng N 4	Main Gate N 1 67.8 Weigh N 2 68.1 Cooling N 3 74.2 ng N 4 72.7	Main Gate N 1 67.8 51.4 Weigh N 2 68.1 58.3 Cooling N 3 74.2 68.5 ng N 4 72.7 69.3

Remarks

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Note

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

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Mukesh Singh Field Analyst

Barrang Kumar Lab Analyst

Umesh Das Technical Manager Technical Manager Yugantar Bharati Analytical & Environmental Engineering Laporato









ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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Report Release Date	5th April, 2018			Ref. No.	Ref. No. YBAEEL/WA/L/			/March-18/13		
Report ID	YBAEEL/RAM/18	03-29/AAQ/01		Sample Desc	ription	Ambient A	Air Quality			
Sampling Date	29th - 30th Ma	rch, 2018		Type of Indus	pe of Industry Power Generation					
Sampling Time	29th March, 12:2 March1:20 PM	0 PM to 30 th		Sampling	Site A	Serengha	tu Village			
Name of Industry	1			Locations	Site B	Bariyatu Village				
					Site C	Urba Villa				
		er LimitedTonagha	tu,		Site D	Tonaghat				
	Gola, Ramgarh, Jharkhand	S.		Work Order I	No.					
				Work Order I	Date					
				Weather Con	dition	Clear				
Customer Ref.	Mr S. N Sınha			Sample draw	n by	Mr. Mukes	sh Singh &	team		
oustomer iter.		Sampling								
Monitored Parameters	Method	Site A	Site	е В	Site C	Site D	Units	NAAQS Industrial Area		
Particulate Matter (PM2.5)	CPCB Guidline	37.95	40.	17	37.04	41.70	µg/m3	60 µg/m3		
Particulate Matter (PM10)	IS 5182 Part 23	75.42	79.	18	76.56	B2.49	µg/m3	100 µg/m3		
Sulphur Dioxide (SO2)	IS 5282 Part II	9.19	11.	.87	10.17	11.52	µg/m3	80 µg/m3		
Nitrogen Dioxide (NO2)	IS 5182 Part VI	20.57	22.	35	21.34	20.57	μg/m3	80 µg/m3		

RemarksNote

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Verified by

BrijNandan Kumar Section In-Charge

issued by

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Report Release Date	4th April, 2018			Ref. No.		YBAEEL/WA/L/A/March-18/12			
Report ID	YBAEEL/RAM/18-	03-28/AAO/01		Sample Des	cription	Ambient A	Air Quality		
Sampling Date	28th - 29th Ma	rch, 2018		Type of Indu	ustry	Power Ge	neration		
Sampling Time	28th March, 11:0 March12:00 PM			Sampling	Site A	Near Main	Gate		
Name of Industry				Locations	Site B	Near Switch Yard			
					Site C	Near Guard Rest Room			
	M/s Inland Pow		ghatu,		Site D	Near B Gate			
	Gola, Ramgarh, Jharkhand			Work Order No.		2			
				Work Order	Date	*******			
				Weather Co	ndition	Clear			
Customer Ref.	Mr S. N. Sinha			Sample draw	wn by	Mr. Mukes	team		
Gustomer Rei.			Sampling	Location					
Monitored Parameters	Method	Site A	Site	В	Site C	Site D	Units	NAAQS Industrial Area	
Particulate Matter (PM2.5)	CPCB Guidline	40.85	39.4	49	42.76	34.44	µg/m3	60 µg/m3	
Particulate Matter (PM10)	IS 5182 Part 23	82.53	79.3	34	87.07	69.12	µg/m3	100 µg/m3	
Sulphur Dioxide (SO2)	IS 5282 Pan II	14.45	16.30		12.87	11.24	µg/m3	80 µg/m3	
Nitrogen Dioxide (NO2)	IS 5182 Part VI	26.67	21.3	34	22.86	19.43	μg/m3	80 µg/m3	

RemarksNote

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Testectb. **Pramod Singh** Lab Analyst

Verified by

BrijNandan Kumar Section In-Charge

Umestal Analyl Yuganiar Briston Analytical 8 Andauras pustant unanding Caporator

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National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi Jharkhand State Pollution Control Board (JSPCB) (T 2982, T-2918)

Ambient Air Quality Report (Core Zone)

Report Release Date	22-Jan-2018		Protocol	IS	5182	Part II	Part IV	Part VI	
Report ID	YBAEEL/RAM/17-12-27	/AAQ/01	Sample Desc	ription		Ambient Air Q	uality (Core Zo	ne)	
Sampling Date	27th - 28th Decem	ber, 2017	Type of Indu	stry		Electricity Pov	ver Plant	r Plant	
Name of Industry						Near Main Gat	e		
M/s inland Pov	ver Ltd.					Near Switch Y	ard		
Tonagatu, Gola			291	npling Locati	ons	Near Guard Re	est Room		
Dist : Ramgarl	n, Jharkhand					Near B. Gate			
			Weather Con	dition		Clear	•		
Customer Ref.	Mr. S. N. Sinha		Sample drawn by			Mr. Neeraj Kumar & team			
Monitored Parameters	Method -		Samplin Location			Units	NAAQS industrial, residenti		
	metriou	Site A	Site B	Site C	Site D	Ollits	rural & other area		
Particulate Matter (PM2.5)	CPCB Guidline	37.23	29.03	41.23	24.92	րց <i>і</i> m3	60 µ	ıg/m3	
Particulate Matter (PM10)	IS \$182 Part IV	84.30	80.52	92.34	71.49	µg/m3	100	µg/m3	
Sulphur Dioxide (SO2)	IS 5282 Par II	17.46	14.87	18.69	15.91	µg/m3	-	ıg/m3	
Nivogen Dioxide (NO2)	IS 5182 Part VI	33.14	27.13	35.81	24.93	µg/m3	80 1	ıg/m3	

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

Remarks

All values are observed well within the limit

Note

All values are expressed in microgram/ cubic meter

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 liability of the laboratory is limited to the invoiced amount

All disputes are subjected to the Ranchi Jurisdiction

Pramod Singh Lab Analysi

Verified by Brij Nandan Kumar Section In-charge

lesued by Umesh Das Technical Manager

Technical Manager Yugantar Bharati Analytical & Environmental Engineering Laboratory







Post Box no. 32



ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY:

National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi Jharkhand State Pollution Control Board (JSPCB) (T 2982, T-2918) (B-1874)

Ambient Air Quality Report (Buffer Zone)

Report Release Date	22-Jan-2018		Protocol	IS	5182	Part II	Part IV	Part VI	
Report ID	Y8AEEL/RAM/17-12-28	IAAQ/01	Sample Desc	ription		Ambient Air Quality (Core-Zone)			
Sampling Date	28th - 29th Decem	ber, 2017	Type of Indu	stry		Electricity Power Plant			
Name of Industry						Seranghatu Village			
M/s Inland Po	wer Ltd.					Bariatu Village	,		
Tonagatu, Gol			Sar	npling Locati	ons	Urba Village			
Dist : Ramgar	h, Jharkhand					Tonagatu Villa	ige		
			Weather Cor	ıditıon		Clear			
Customer Ref.	Mr. S. N. Sinha	-	Sample drawn by			Mr. Neeraj Ku	mar & team		
Handard Damenter			Samplin L	ocation		11.11	NAAQS Industrial, residential		
Monitored Parameters	Method	Site A	Site B	Site C	Site D	Units	rural & other area		
Particulate Matter (PM2.5)	CPCB Guidline	29.68	33.12	29.05	28.97	µg/m3	60 д	ig/m3	
Particulate Matter (PM10)	IS 5182 Part IV	72.63	82.34	78.08	86.94	h8 _l ш3	100 μ	ug/m3	
Sulphur Dioxide (SO2)	18 5282 Part 11	7.38	9.13	8.86	9.57	hð\w3	80 µ	ıg/m3	
Nitrogen DloxIde (NO2)	IS 5182 Part VI	15.46	17.51	14.68	16.76	µg/m3	80 µ	rg/m3	

""" End of Report"""

Remarks Note

All values are observed well within the limit

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Premod Singh Lab Analyst

Venified by Brij Nandan Kumar Section In-Charge

issued by

Umesh Das

Technical Manager Technical Manager Yugantar Bharati Analytical & Environmental Engineering Laboratory











ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY

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

(T 2982, T-2918) (日-1374)

Beitten 20mi.

Ambient Air Quality Report

Report Release Date	31st October 2017	7	Protocol			Part II	Part IV	Part VI	
Report ID	YBAEEL/RAM/17-	10-25/AAQ/01	Sample Des	cription		Ambient Air Quality (Buffer Zone)			
Sampling Date	25th - 26th Octobe	er, 2017	Type of Industry			Electricity Power Plant			
Name of Industry						Seranghatu Village			
M/s Inland Pov	ver Ltd.					Bariatu VIIIa	 ge		
Tonagatu,Gola	Tonagatu, Gola			ocations		Urba Village			
Dist ; Ramgart	n, Jharkhand					Tonagatu Vil	lage		
			Weather Co	ndition		Clear			
Customer Ref.	Mr. S. N. Sínha		Sample dra	wn by		Mr. Mukesh Singh & team			
			Samplin Lo	cation			NAAQS industrial,		
Monitored Parameters	Method	Site A	Site B	Site C	Site D	Units	residential, rural & oth		
Particulate Matter (PM2.5)	CPCB Guidline	34.33	38.54	38.66	34.31	μg/m3	60 L	ıg/m3	
Particulate Matter (PM10)	IS 5182 Part IV	80.98	90.96	85.96	93.95	µg/m3	100	µg/m3	
Sulphur Dioxide (SO2)	IS 5282 Part II	8.96	11.26	9.59	10.67	µg/m3	80 1	ıg/m3	
Nitrogen Dioxide (NO2)	IS 5182 Part VI	19.76	21.47	20.66	20.04	μg/m3	80 ş	ug/m3	

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

Remarks

All values are observed well within the limit

All values are expressed in microgram/ cubic meter Note

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Mukesh Singh Field Analyst

Verified by Brijnandan Kumar Section Incharge

Issued by Umesh Das Technical Manager

Technical Manager Yugantar Bharati Analytical y Environmental Engineering Labor









Core Zone

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

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> (T 2982, T-2918) (B-1374)

Ambient Air Quality Report

Report Release Date	31st October 2017	Protocol Part			Part II	Part IV	Part VI			
Report ID	YBAEEL/RAM/17-	10-26/AAQ/01	Sample Description			Ambient Air Quality (Core Zone)				
Sampling Date	26th - 27th Octob	er, 2017	Type of Indi	Type of industry			Electricity Power Plant			
Name of Industry				•		Near Main Gate				
M/s Inland Pow	ver Ltd.		Commission			Near Switch	Yard			
Tonagatu, Gola			Sampling Lo	ocations		Near Guard F	lest Room			
Dist : Ramgarh	, Jharkhand					Near B. Gate				
			Weather Co	ndition		Clear				
Customer Ref.	Mr. S. N. Sınha		Sample drawn by			Mr. Mukesh Singh & team				
Manifered Daramaters	Method		Samplin Location			Units	NAAQS industrial,			
Monitored Parameters	Method	Site A	Site 8	Site C	Site D	Units	residential, rural &			
Particulate Matter (PM2.5)	CPCB Guidline	42.73	34.55	47.41	29.97	µg/m3	60 µ	60 µg/m3		
Particulate Matter (PM10)	IS 5182 Part IV	90.95	86.95	95.98	77.99	μg/m3	100	100 µg/m3		
Sulphur Dioxide (SO2)	IS 5282 Part II	13.68	15.44	11.87	10.91	µg/m3	80 µg/m3			
Nitrogen Dioxide (NO2)	IS 5182 Part VI	25.73	20.38	21.66	18.87	µg/m3	80 إ	ıg/m3		

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

Remarks All values are observed well within the limit

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Lukh Sind Tested by Mukesh Singh Field Analyst

Verifled by Brijnandan Kumar Section Incharge

Issued by **Umesh Das Technical Manager**

nincai Manager Yugantar Sharati Analytical & Environmental Engineering Laboratory









Button Zone

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY

National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delhi Jharkhand State Pollution Control Board (JSPCB) (T 2982, T-2918)

(B-1874)

Ambient Air Quality Report

11th July 2017		Protocol		IS 5182	Part II	Part IV	Part V	
YBAEEL/RAM/17-06-29/A	AAQi01	Sample Desc	ription		Ambient Air Quality (Buffer Zone)			
29th - 30th June, 20)17	Type of Indu	stry		Electricity Pow	er Plant		
,		Site A			Seranghatu Vi	llage		
ower Ltd.		Committee		Site B	Bariatu Village			
la		Sampling	Locations	Site C	Urba Village			
rh, Jharkhand		Site D			Tonagatu Villa	ge		
		Weather Con	dition		Clear			
Mr. S. N. Sinha		Sample draw	n by		Mr. Mukesh Singh & team			
		Samplin	Location			NAAOS industrial,		
Method	Site A	Site B	Site C	Site D	Units	residential, tural & othe area		
CPCB Guidline	38.98	35.07	34.65	38.49	µg/m3	60 há	g/m3	
I\$ S182 Part IV	79.62	86.24	83.09	84.73	µg/m3	100 µ	g/m3	
IS 5282 Part II	12.06	13.52	11.47	14.61	µg/m3	80 µ	g/m3	
IS 5182 Part VI	17.26	16.86	19.12	18.37	µg/m3	80 µ	g/m3	
	29th - 30th June, 20 29th - 30th June, 20 Dwer Ltd. Ila rh, Jharkhand Mr. S. N. Sinha Method CPCB Guidline IS 5182 Part IV	YBAEEL/RAM/17-06-29/AAQ/01 29th - 30th June, 2017 29th June, 2017 29	YBAEEL/RAM/17-06-29/AAQ/01 Sample Desc 29th - 30th June, 2017 Type of Industrial Type of Industrial Type of Industrial Sampling Sampling Sampling Weather Con Sampling Sa	YBAEEL/RAM/17-06-29/AAQ/01 Sample Description	Sample Description 29th - 30th June, 2017 Type of Industry	YBAEEL/RAM/17-06-29/AAQ/01 Sample Description Ambient Air Qi	VBACEL/RAM/17-06-29/AAQ/01 Sample Description Ambient Air Quality (Buffer 2)	

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

Remarks Note

All values are observed well within the limit All values are expressed in microgram/ cubic meter

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Mukesh Singh

Field Analyst

Venfied by Bajrang Kurtar Lab Analyst

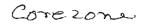


Issued by Umesh Das

Technical Managerager Yugantar Bharati Analytical & Environmental Engineering Laboral 19









ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY

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

(T 2982, T-2918) (B-1874)

Ambient Air Quality Report

Report Release Date	11th July 2017		Protocol		Part II	Part IV	Part VI
Report ID	YBAEEL/RAM/17-06-	28/AAQ/01	Sample Desc	ription	Ambient Air Q	uality (Core Zo	ne)
Sampling Date	28th - 29th June, 20	17	Type of Indus	stry	Electricity Pov	er Plant	
Name of Industry					Near Main Gat	è	
M/s Inland Powe	r Ltd.		Sampling	Locations	Near Switch Y	ard	
Tonagatu,Gola					Near Guard Re	st Room	
Dist : Ramgarh,	Jharkhand		Weather Con	dition	Clear		
Customer Ref.	Mr. S. N. Sinha		Sample draw	n by	Mr. Mukesh Si	ngh & team	
Monitored Parameters	Method	S	amplin Location		Units	NAAQS I	ndustrial,
Monnoreu Parameters	Metrico	Site A	Site B	Site C	Units	residential,	rural & othe
Particulate Matter (PM2.5)	CPCB Guidline	41.95	37.33	45.72	μg/m3	60 µ	g/m3
Particulate Matter (PM10)	IS 5182 Part IV	89.86	86.60	92.44	µg/m3	100	ıg/m3
Sulphur Dioxide (SO2)	IS 5282 Part II	10.52	9.87	12.47	µg/m3	80 _L	ıg/m3
Nitrogen Dioxide (NO2)	IS 5182 Part VI	22.08	19.47	20.66	µg/m3	4 08	ıg/m3

" End of Report

Remarks

All values are observed well within the limit

Note

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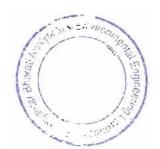
All disputes are subjected to the Ranchi Jurisdic

ested by Mukesh Singh Field Analyst

Verified by Bajrang Kumar Lab Analyst

Issued by **Umesh Das** Technical Manager

Technical Manager Yugantar Bharati Analytical & Environmental Engineering Laboratory









GANTAR BHARAT

ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

National Accordination Board for Testing 8 Cartainton, Laboratory (NABL), New Dellai A PACCREDITE OF THE Jharkhamt Share Pollution Control Board (JSPCB)

Test Report

ssued to . M/s Inland Power Limited Tonagatu, Gola, Dist-Ramgarh, Jharkhand Sample Code: 180329-GW-W01 Report 10: YBAEEURAM/18-03-29/GW/01 Date of Issue - 07th April 2018 Reference . YBAEELWAJUCIMar.-18113

Details of Sampling

Sample Particulars Sample Name/Description: Ground Water Sample Quantity: - One litre (1000 ml X 1)

Sample pkg. Condition: - Sealed in plastic bottle

Date of sampling: - 29-03-2018 Sample Received Date: - 29-03-2018 Sampling Protocol: -YBAEELISPI01/00

Sample collected by -Own! Nirai Kumar & team Sampling Location: - Bayang village

Test Result

Test star	ted on: 29-03-2018		Test completed of	n: 07-04-2018	
SI. No.	Tested Parameter	Uni(Results	Melhod Name	Permissible Limi (As per IS 10500 Specification)
1 -	pH		6.51	IS.3025 (Part-11)	651085
_2	Temperature	^a C	24.1	2550 B	< 408 C
3	Total dissolved solid	mg/l	342	(\$ 3025 (Part 16)	2000 mg?
4	Fluoride	mg/i	0.6	4500 F C	1.5 mg/l
5	T. Hardnoss	mg/.	220.2	IS:3025 (Part-21)	600mg/l
6	Chloride	mg/l	44	IS.3025 (Part-32)	1000mg/i
7	Turbldity	mg/	3.0	IS.3025 (Part-13)	5NTU
10	Nitrate	mg/l	41.4	4500 NO3 B	45 mg/l
11	Iron	hg/l	ND (DL 0.1)	31118	03mg/
12	Odour	mgv1	Agreeable	(S:3025 (Pan-05)	-
13	Colour	mg/l	< 5	IS-3025 (Part.4)	
14	Alkalinity_	mg/l	88 7	15 3025 (Part-23)	100 mg/l
15	Magnesium	mg/l	16.2	IS 3025 (Part-46)	100mg/l
16	Calcium	mg/l	<u> </u>	IS:3025 (Part ~40)	200 mg/l
17	Arsenic	lb6/l	ND (DL 0.003)	APHA 3114 B	0.05 mg/l
18	Zinc	ועאוו	0 16	APHA 3111 B	15 mg/l
19	R. Chlorine	mg/l	NO (DL 0.07)	!S:3025 [Рап-26)	1.0 mg/l
20	Sulphate	mai	28.3	JS:3025 (Part-24)	. 400 mg/l
21	Capper	หโย	NO (DL 0.01)	APHA 31115	1.5 mo/l

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

Specific contractual notes: -

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- The Kability of the laboratory is limited to the involved amount
- All discutes are subjected to the Ranchi Junisdiction

Pested by & Brironment Saima Alrnn Lab Analysi 8nara; 110:00

Checked by Barard Kumar Section In-Charge And May Share And Anglatical &

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ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

PHARCHIMICORY

National Accorditation Board for Testing & Calonates, Laboratory (NABL), New Delhi Jharkherrt State Pollution Control Space (JSPCB)

Test Report

ssued to : -

M/s Inland Power Limited

Tonagatu, Gola,

Dist.-Ramgarh, Jharkhand

Samole Code, -180329-GW-W02

Report ID: - YBAEEURAW18-03-29/GW/02

Date of Issue: ~ 07th April 2018

Reference: - YBAEELWAILICIMar - 18/13

Sample Particulars

Sample Name/Description - Ground Water

Sample Quantity: - One litre (1000 ml X 1)

Sample pkg. Condition: - Sealed in plastic bottle

Details of Sampling

Date of sampling : - 29-03-2018

Sample Received Dato:- 29-03-2018

Sampling Protocol: YBAEEUSP101/00

Sample collected by: Own I Niraj Kumar & team Sampling Location: Barryatu village

Test Result

est star	ted an: - 29-03-2018		Test completed of	07-04-2018	
SI. No.	Tested Parameter	Unli	Results	Method Name	Permissible Limi (As per IS 10500 Specification)
1	PH		8.17	15.3025 (Parkit)	6.5 to 8.5
2	Temporature	2C	24,6	2550 8	< 40° C
3	Total dissolved solld	mg/1	218	IS:3025 (Part-16)	2000 mg/l
4	Fkioride	my/i	9.6	4500 F C	1.5 mg/s
3	T. Haroness	mg/l	149.5	IS 3025 (Part-21)	600mg/l
6	Chlorida	ing/l	28.4	15.3025 (241.32)	1000kmg/l
7	Turbidity	mgA	2.0	15.3825 (Pan-10)	5พาบ
10	Nitrate	moyl	43.8	4500 NO3 B	45 mg/l
-11	Iron	mg/l	ND (DL 0.1)	3111 B	0.3 mg/
12	Odour	mg-1	Agreeable	IS-3025 (Part-05)	
13	Colour	mg/I	5	IS. 3025 (Part 4)	
14	Atkalinity	mg/l	76	IS:3025 (Pan-23)	tico mgA
13	Magnesium	Luđi,	8.8	IS:3025 (Part-46)	100mg/I
16	Całcium	mo1	45.2	15 3025 (Par -10)	200 mg/l
17	Arsenic	rng/l	ND [DL 0 003]	APHA 3114 B	0.05 T.g/i
18	Zinc	Mg/l) ND (DL 0.01)	APHA 3111 B	15 mg/t
19	R. Chlorine	mg4	NO (DL 0.07)	15 3025 (Pan 76)	10 mg/1
20	Sulphate	mg/l	25.6	15 3025 (Part-24)	400 mg/l
21	Copper	NÎU	ND (DL 0.01)	1PHA 31-1 B	1.5 mg/l

Remarks:-According to tested parameter, the results found within prescribe firms of Drinking water specification (\$10500).

Specific contractual notes: .

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Aested by Checked by Issued by Umesh Das at Manager at 8

Lab Analyst Section in Charge Technique day Bright Analyst Se



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ANALYTICAL & INVIRONMENTAL ENGINEERING LARORATORY

Association Accreditation Board for Testing & Cardiation Laboratory (NABL), New Delbi Jharkhang State Policitic Control Board (JSPCB)

Test Report

Issued to: M/s Inland Power Limited
Tonagatu, Gola,

Dist.-Ramgarh, Jharkhand

Sample Code: -180329-GW-W03

Report ID: YBAEEURAM/18-03-29/GW/03

Date of Issue: - 07th April 2018

Reference: YBAEEL/WAIL/C/Mar.-18/13

Sample Particulars
Sample Name/Description: Ground Water
Sample Quantity: One litre (1000 ml X 1)

Sample pkg. Condition : - Sealed in plastic bottle

Date of sampling : - 29-03-2018

Sample Received Date:- 29-03-2018
Sampling Protocol. -YBAEEL/SP/01/00

Sample collected by: -Own / Niraj Kumar & team

Sampling Location: - Tonagatu village

		Te	91 Result		272
est star	ted on: - 29-03-2018		Test completed of	n:- 07-04-2018	
Sł. No.	Tested Parameter	Unit	Results	Method Name	Permissible Limi (As cer IS 10500 Specification)
1	рН		7.21	IS:3025 (Part-11)	6.5 to 8.5
2	Temperature	- + C	24.3	2550 B	< 40° C
3	Total dissolved solid	mg/l	198	IS.3025 (Pari-16)	1 2000 mg/l
1	fluoride	(tom	0.9	4500 F C	1.5 mg/
5	T. Hardness	mart	80.8	IS.3025 (Pan-21)	600mg/l
- 8	Chloride	man	2.0	IS 3025 (Part 32)	1,500 m21
7	Turbidity	ma/l	2.0	IS:3025 (Pari-10)	SNTU
1D	Nitrale	mg/l	14.2	4500 NC3 B	45,mg/l
11	Iron	mg/l	NO (DL 0.1)	31116	1 03 mg/i
12	Odour	mg/l	Agreeable	19:3025 (Part-05)	1 -
13	Colour	mg/l	3	IS.3025 (Part-4)	
14	Alkalinity	mg/I	97	1S 3025 (Pan-23)	fpm CO3
15	Magnesium	mg/l	6.4	IS:3025 (Part-46)	100mg/
16	Calcium	TQI	21.8	15:2025 (Pan 40)	200 mg/l
17	Arsenic	rig/l	MD (DL 0.000)	APHA JI 14 B	. 0.05 mg1
18	Zinc	mg/l	ND (DL 0.01)	8 111E AHAA	15 mg/l
19	R. Chlorine	mg/l	ND (DL 0.07)	(\$ 3025 (Pa:1-26)	1 0 mg/i
20	Sulphate	ng/	3.2	15 3025 (Par 24)	4CC mg1
21	Copper	NTU	ND (DL 0.01)	APPA 31:18	i.5 mg/i

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

Specific contractual notes: -

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Yesled by Checked by Issued by Uneah Pactor in and yell a section in Charge Technology Value Val







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ANALYTICAL & ENVIRONMENTAL FAIGING EPING LABORATORY

Additional Accretitation Board for Testing & Caudiation Line atory (NABL). New Dept. Jhurstand State Polluppin Control Beard (JSPCB).

Test Report

Issued to :

M/s Inland Power Limited Tonagatu, Gola, Dist-Ramgarh, Jharkhand Sample Code: -180329-GW-W04

Report D. YBAEELIRAW 18-03-29/GW/04

Date of Issue: - 07m April 2018

Relevence: YBAEELWAJLIC/Mar -18/13

Sample Particulars

Sample Name/Description: - Ground Water

Sample Quantity . One litre (1000 ml X 1)

Sample pkg. Condition: - Sealed in plastic bonle

Oetails of Sampling

Date of sampling . - 79-03-2018

Sample Received Date: - 29-03-2018

Sampling Protocol: YBAEEL/SP/01/00

Sample collected by: -Own / Niraj Kumar & team

Sampling Location - Bahmani village

		Te	st Result		
est star	ted on: - 29-03-2018		Test completed of	07-04-2018	
SI, No.	Tested Parameter	Unit	Results	Method Name	Permissible Limit (As per iS 10500 Specification)
1_	рН		7.30	15.3025 (Part 11)	651085
2	Temperature	"C	13.6	2550 B	< 40° C
3	Total dissolved solld	mail	188	IS.3925 (Pail-16)	2000 mg/l
4	Fluoride	rrox'	0.7	4500 F C	1.5 mg/l
5	T. Hardness	Mon	133.3	15 3020 (Pari-21)	100mg/i
8	Chioride	mg/	1.9	iS.3025 (Part-32)	1 1000mg/i
7	Turbidity	ത്യ/	2.0	15:3075 1=34:401	SNTU
10	Nitrate	ma/l	6.6	4500 NOS 8	45 mg/l
11	Iron	mayl	NO (DL Q.1)	3111 0	Nom S 0
12	Odour	πgΛ	Agreeable	(\$ 3025 (Part-05)	
13	Colour	mg/i	10	IS 30% (P3/14)	
14	Alkalinity	mg/l	128	IS:3025 (Part-23)	Nom 00%
15	Magnesium	mg/l	14.8	15.3025 (Part-46)	180mg/I
16	Calcium	mg/l	29.0	IS.3025 (Pan 40)	200 mg/l
17	Arsenic	mg/l	ND (DL 0.003)	APHA 3114 8	0.05 mg/l
18	Zinc	rrg/l	ND (DL 0.01)	APHA 3111 8	15 my/l
19	R. Chlorine	ma/l	ND (DL 0.07)	15:3025 (Part-26)	1 0 mg/l
20	Sulphate	mg/l	36.5	15.3025 (Part-24)	400 ng/i
21	Copper	NTU	ND (DL 0.01)	APHA 3111 B	(5 mg/t

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

Specific contractual notes: -

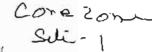
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Tesled by Checked by Issurity All America & Saima Afrin Bajrang Kuman Tesled Manager Annother Section in Charge Issurity Manager:

Environmental



LIGANTAR BHARA



ANALYBOAL & ENVIRONMENTAL ENGINEERING LABORATORY

National Accreditation Board for Testing & Calonation, Laboratory (NABL), New Delhi 145 ACCRECATE BY Jiankhand State Polletion Central Board (JSPCB)

Test Report

Issued to : . M/s Inland Power Limited Tonagalu, Gola,

Dist.-Ramgarh, Jharkhand

Sample Code - 180329-DW-W01

RODON ID . YBAEEL/RAM/18-03-29/DW/01

Date of Issue: - 07" April 2018 Reference: YBAEELWA/UCIMar-18/13

Sample Particulars Delails of Sampling Sample Name/Description: - Drinking Water Date of sampling - 29-03-2018

Sample Received Date: 29-03-2018 Sample Quantity: Two litre (1000 ml X 2) Sampling Protocol: YBAEEL/SP/01/00

Sample pkg. Condition: Sealed in plastic bottle Sample collected by. Own I Naraj Kumar & team

Sampling Location. Near Mess Area

			st Result		
est star	ted on: - 29-03-2018		Test completed on	· 07-04-2018	
SI, No.	Tested Parameter	Unit	Results	Method Name	(As per IS 10500 Specification)
100	н		6.94	(S:3025 (Part-11)	55 10 8 5
2	Temperature	•C	24.1	2550 8	~ ~ 40° C ~ ~
3.	Total dissolved solid	mg/l	254	IS:3025 (Part-16)	2000 mg/l
4.	Conductivity	µs/cm	416	15 3025 (Part-14)	7
5.	Nitrate	mg/l	16.3	4500 NO3 8	100 mg/l
6.	T. Alkalinity	mg/l	92	IS:3025 (Part-23)	600mg/l
7.	T. Hardness	mg/l	192	IS.3025 (Pan-21)	600 mg/i
- δ.	Chlonos	mgil	16.6	IS:3025 (Part-32)	1600 mg
9.	800	Non	0.8	IS:3025 (Part: 44)	
10.	COD	mg/l	7.2	IS 3025 (Part-58)	250mg/ ⁴
11.	Oil & grease		2.4	IS 3025 (Fart-39)	10mg/l
12.	Copper	mg/l	ND (DI. 0 01)	APHA 3111 B	1.5mg/l
13.	Ολουί		Agreeable	1S 3025 (Part-5)	
14.	Sulphate	mg/r	18.7	· IS:3025 (Pari-24)	400mg/s
15.	Iron	mg/l	ND (DL 0.1)	APHA 3111 D	0.3(19)
16.	Calcium	mg/l	48.5	IS 3025 (Part-40)	200mg/l
17.	Magnesium	mg/l	17.2	IS.3025 (Part-37;	100mg/J
18.	Zinc	nig/l	0.11	APHA 3111 B	15mg/l
19.	Fluoride	mg/l	0.6	4500 F C	1 5mg/i
20.	Turbidity	NTU	2.0	15 3025 (Part-10)	SNTU
21.	Potassíum	mg/l	0.58	APHA 3111-8	
22	Sodium	mg/l	6.21	APHA 3111-B	

Remarks.-According to tested parameter, the results found within prescribe limit of Dunking water specification 18 10500.

Specific contractifal notes is

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ANALYTICALIS ENVIRONMENTAL ENGINEERING LABORATORY

AS ACCREDITED BY

National Accreditation Board for Testing & Caloration, Laboratory (NABL), New Dellin Utarkhand State Pollution Control Board (USPCB)

Test Report

Mis Inland Power Limited

Tonagalu, Gola, Dist-Ramgarh, Jhackhand Sample Code: -180329-GW-W05

Report In: YBAEELJRAW18-03-29/GW/05

Date of Issue: - 07th April 2018

Reference - YBAEELWA/LIC/Mar - 18/13

Sample Particulars

Details of Sampling
Sample Name/Description: - Ground Water

Oate of sampling: - 29-03-2018

Sample Name/Description: - Ground Water Date of sampling: - 29-03-2018
Sample Quantity: - One litre (1000 ml X 1) Sample Received Date: - 29-03-2018

Sample pag. Condition. Sealed in plastic bottle

Sample collected by Own / Niraj Kumar & Jeam

Sampling Location: - Near Stack

		Te	st Result		
resi stai	1ed on 29-93-2018		Test completed o	n :- 07-04-2018	
S1. No.	Tested Parameter	Unit	Results	Method Name	Permissible Limi (As per IS 10(00 Specification)
_ 1	рН	<u> </u>	7.14	15.2025 (Part-11)	6.5 to 8.5
2	Temperature	² C	23.8	2550 B	< 40° C
3	Total dissolved solid	กรุป	332	IS 3025 (Pan-16)	2000 mg/l
4	Fluoride	mgt	0.6	4500 F C	1.5 mg/l
5	7. Hardness	mg/	230,3	\$ 3025 (Part-21)	NomCG6
6	Chloride	mg/l	176	S 3025 (Pan-32)	1000mg/l
7	Turbidity	mg/l	1.0	(S.3025 (Part-11))	SVTU
10	Nitrate	mgri	4.6	4500 NO2 B	45 mg/l
11	fron	mgyl	MD (DL0.1)	31118	0.3 mg/l
12	Odour	nig/l	Agreeable	S.3025 (Fart-05)	
13	Colour	mg/l	·3	IS 3025 (Parl-4)]
14	Alkalinity	hom	102	IS.3025 (Part 23)	603 mg/i
15	Magnesium	mo	21.6	IS:3025 (Fan 46)	1 DOmg/l
16	Calcium	797	56.5	IS:3025 (Pari 40)	200 mg/l
117	Arsenic	mg/l	ND (DL0.003)	AP-10 3114 B	0.05 mg/l
18	Zinc	mg/1	0.23	APH4 3111 B	15 mg/1
19	R. Chlorine	rng/	ND (DL0.07)	(\$.3025 (Part-25)	1 3 avg/
20	Sulphate	mg/l	44.9	IS 3025 (Pan-24)	400 mg/l
21	Copper	עדיא	ND (DLO.01)	APHA 3111 B	1.5 mg/1

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

Specific contractual notes: -

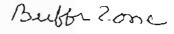
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Sama Aluin	Bayrang Kumar	Issued by United Page 31 Manage 11 8
Lab Analysi	Section In-Charge	
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ANALYTICAL & INVIRONMIN AL ENGINEERING LABORATORY SILE -1

LAR ACCREDITED BY

Yonagatu, Gola,

MIs Inland Power Umited

Dist-Ramgarh, Jharkhand

issued to

National Accreditation Board for Testing & Calibration Laboratory (NABL), New Delta Island State Pollution Control Board (USPCR) (T 2982, 7-2916) Jearkhand State Pollution Control Board (JSPCB) (8-1874)

Test Report

Sample Code. -171228-GW-W01

Report ID - YBAEELIRAM 17-12-27/GW/01

Date of Issue: - 22nd Jan. 2018

Reference: YBAEEL/WA/UC/Dec.-17/09

Sample Particulars Details of Sampling Sample Name/Description: - Ground Water Date of sampling . - 27-12-2017

Sample Received Date: - 28-12 2017 Sample Quantity: - One litre (1000 ml X 1) Sampling Protocol: YBAEEL/SP/01/00

Sample pkg. Condition : - Sealed in plastic bottle Sample collected by: -Own / Necraj Kumar & team

| Sampling Location: - Bayang

		Yes	t Result		
Tool star	1ed on: - 28 12.2017		Test completed of	on: , 05.01 2018	
SI No.	Tested Parameter	Unit	Results	Method Name	Permissible Limi (As per IS 10500 Specification)
1	pH		8.22	IS.\$025 (Par-11)	6.5 10 8.5
2	Temperature		70.8	2550 8	< 40° C
3	Total dissolved solid	mg/l	334	\$ 3025 (Pan-16)	2000) (TIG/I
4	Fluoride	וֹעוּת	0.7	4500 F C)5mg/
5	T. Hardnoss	mg/l	209.8	15 3026 (Pan-21)	600mg/i
6	Chloride	mg/l	42.9	IS.3025 (Pan-32)	1000mgil
7	Turbidity	mg/l	3	IS 3025 (Pan-10)	עיזא5
-īā ~	Nitrate	mg/i	40.6	4500 NO3 B	45 mg/l
11	Iron	my/	0.00	3111B	0,3 mg/l
12	Odour	mg/l_	Agreeable	(\$ 3025 (Part-05)	
13	Colour	Mg/l	<5	! IS:3025 (Pan-4)	i
14	Alkalinity	ויפוד	116	1\$.3025 (Part-23)	500 nxg1
15	Magnesium	nicyl	16.3	\$3025 (Pan-46)	100mg/l
16	Calcium	l\con_	57	15 3025 (Pan -40)	200 mg/s
17	Arsenic	719/1	ОИ	APHA 3.148	N.05 mg/l
18	Zine	(ng/i)	0.13	APHA 3131.B	15 mg#
19	R. Chlorine	rng/l	0.00	is 3025 (Part-20)	1 U.mg/l
20	Sulphate	mg/l	34.4	· IS 3025 [Part-24]	400 ਜ਼ਰੂਮੀ
21	Copper	พาบ	0.00	APHA JIII B	1.5 mg/

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

Specific controctual notes -

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All disputes are subjected to the Ranchi Jurisdiction

Tested by Bairang Kumar Analyst

Sunil Kr Sinah Section In-Charce

Is traced by Umesh Das Technical Manage/ Teichnical Manager

Yuganiar Bharas Analytical & Environmental Engineering Labora di ;









Buffer Zone

ANALYTICAL & ENVIRONMENTAL COSTNERING LABORATORY

LAS ACCREDITED BY

National Accreditation Board for Testing is Calibration, Laboratory (NABL), New Delhi Usarchand State Pollution Coarro Board (USPCB) (T. 2982, T-2918)

Test Report

(8-1874)

Issued to :

MVs Inland Power Limited Tonagatu, Gola, Dist.-Ramgarh, Jharkhand Sample Code: - 171223-GW-W02

Report ID . - YBAEEL/RAM/17-12-27/GW/02

Oate of Issue: - 22nd Jan. 2018 Reference: YBAEELWA/L/C/Dec.-17/09

Sample Particulars Details of Sampling
Sample Name/Description - Ground Water Date of Sampling - 27-12-2017

Sample Quantity: One litre (1000 ml X 1)

Sample Received Date: 28-12-2017

Sampling Protocol: YBAEELISP/01/00

Sample pkg. Condition : - Scaled in plastic bottle

Sample collected by: -Own : Neoni Kumar & team

Sampling Location: - Barryatu

			i gambund cocston		
	·	71	est Result		
Tesi star	ted on: - 28 12.2017		Test completed on :	05 01 2018	
SL Na.	Tested Parameter	Unit	Results	Method Name	Permissible Limit (As per IS 1(-5)() Specification
1	pH		6.05	is 3325 (Part-11)	55108.5
2	Temperature	30	20.8	2550 B	< 40° C
3	Total dissolved solid	lion	206	IS 3025 (Part-16)	2000) mg/l
4	Fluoride	FG/I	0.6	4500 F C	1.5 mg/l
5	T. Hardness	mg/l	142.5	IS:3025 (Pert-21)	600mg/l
6	Chloride	rrc/1	23	IS 3025 (Part-32)	1000mg1
7	Turbidity	mg.s	3.0	(\$ 3025 (Part-10)	รหาบ
10	Nilrate	mg/l	41.5	4500 NO3 B	45 mg/l
11	Iron	_ Λαπ	0.00	3111 B	0.3 mg/l
12	Odour	ligni _	Agreeable	(5.3025 (Part-05)	
13	Colour	mg/l	5	IS:3025 (Part-4)	i . <u></u>
14	Alkalinity	i mg1	70	IS.3025 (Pait-23)	600 mg/
15	Magneslum		8.3	IS 3025 (Pan-45)	1 <u>00mg/</u>
16	Calcium	ന്നൂദ	43.3	IS 3025 (Part 40)	200 mg/l
17	Arsenic	mg/i	סא	8 4118 AHGA	0.05 mg4
18	Zinc	ing/i	0.08	APHA JIII B	15 mg/l
19	R.Chlorine	nis/l	0.00	'S 3025 (Part 26)	1.0 mx3/s
20	Sulphate	mg/l	20 1	IS 3075 (Part-24)	400 1791
21	Соррет	NIU	0.00	APHA 3111 P	15 000

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

Specific contractual notes: -

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Tasted by Barang Kumar Analyst Checked by
Sumil Kr Singh
Section In-Charge

Issued by
Umesh Das
Technical Manager

Technical Manager Yugartar Bharati Arcoytical S Enswormenta Erigneening Laborda II.

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ANALYTICAL & ENVIRONMENTAL ENGINEERING LABORATORY

LAB ACCREDITED BY

National Accreditation Board for Testing & Calibration, Laboratory (NABL), New Delhi Uharkhand State Pollution Control Board (JSPCB) (T. 2982, T-2918)

Test Report

(8-1874)

Issued to : -

M/s Inland Power Limited

Tonagatu, Gola,

Dist-Ramgarh, Jharkhand

Sample Code: -171228-GW-W03

Report ID: YBAEELIRAMI17-12-27/GW/03

Date of Issue. - 22nd Jan. 2018

Reference: YBAEEL/WA/UC/Dec.-17/09

Sample Particulars

Sample Name/Description: - Ground Water

Sample Quantity: One litre (1000 m) X 1)

Sample pkg. Condition: - Sealed in plastic bottle

Details of Sampling

Date of sampling: - 27-12-2017

Sample Received Date. 28-12-2017

Sampling Protocol. -YBAEEL/SP/01/00

Sample collected by: -Own / Neeraj Kumar & team

Sampling Location: - Tonagety

		Tes	it Result		
Test star	ted on: - 28.12 2017		Test completed on	:- 05 01 2018	
SI. No.	Tested Parameter	Unit	Results	Method Name	Permissible Limit (As per IS (0500) Soecitication)
1	pH		7.3	IS.3025 (Part-11)	6.5 (0 8.5
2	Temperature	0 C	20.9	2550 8	< 40° C
3	Total dissolved solid	mg/l	174	IS.3025 (Pa/t-15)	1 2000 mg/l
4	Fluoride	, mg/i	0.8	4500 F C	1.5 mg/t
5	T. Hardness	mg/l	73.2	[IS 3025 (Pan-21)	600mg/l
6	Chloride	mq/l	1.0	IS 3025 (Part-32)	1000mg/l
7	Turbidity	mg/l	2.0	IS.3025 (Pari-10)	5พาบ
10	Nitrate	mg/l	11.3	4500 NO3 B	45 mg/l
11	Iron	mg/l	0.00	31118	0.3 mg/l
12	Odour	njo/l	Agreeable	IS:3025 (Pan-05)	<u> </u>
13	Colour	mg/l	5	(S:3025 (Part-4)	
14	Alkalinity	. mg/l	84	IS.3025 (Part 23)	. 600 mg/l
15	Magnesium	mg/l	6.7	IS.3025 (Part-46)	100mg/l
16	Calcium	mg/	18,2	IS:3025 (Part 40)	200 ing/
17	Arsenic	mg/1	ND	APHA 3114 B	0.05 mg/l
18	Zinc	mg/l	0.04	APHA 3111 B	15 mg/l
19	R.Chlorine	mg/l	0.00	IS 3025 (Pari-26)	I,0 mg/l
20	Sulphate	rg/l	2.7	15 3025 (Part 24)	400 mg/l
21	Copper	ที่ใบ	0.00	APHA 3111 B	1.5 mg/l

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

Specific contractual notes: -

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Tested by Bajrang Kumar Analyst Checked by
Sunil Kr Singh
Section In-Charge

Issued by
Umesh Das
Technical Manager

Technical Manager
Yugaolar Bharah Aos yhdalis
Environmental Engineerriy Laberatriy









UGANTAR BHARA

ANALYTICAL & LAVIRONMENTAL ENGINEERING LABORATORY

Jharkmann State Pollokon Control Board (JSPCB) Test Report

National Accientation Board for Testing & Caforation, Laboratory (NABL), New Dem (T 2982 T-2916) (8.1874)

Is sued to :

Mis Inland Power Limited

Tonagatu, Gola.

Dist-Ramgarh, Jharkhand

Sample Code: -171228-GW-W04

Report IC: YBAEEL/RAW17-12-27/GW/04

Date of Issue: - 22th Jan. 2018

Reference - YBAEELWALLCIDec .- 17/09

Sample Particulars

Sample Name/Description: - Ground Water

Sample Quantity: - One lifre (1000 ml X 1)

Sample pkg. Condition : - Sealed in plastic bottle

Details of Sampling

Date of sampling 1 - 27-12-2017

Sample Received Date: 28-12-2017

Sampling Protocol. YBAEEL/SP/01/00 Sample collected by: -Own / Neera) Kumar & Jeam

Sampling Localish . 8ahmani

		Te	st Result		
Feat star	ted on: 28 12 2017		Test completed on :-	05 01 2019	
SI. No.	Tested Parameter	Unit	Results	Nethod Name	Permissible Limit (As per IS 10500 Specification)
1	pH		7.28	IS.3025 (Part-11)	6.5 10 8 5
2	Temperature	3 C	20.8	25508	< 400 C
3	Total dissolved solid	Non	198	15.3025 (Fart-15)	2000 mg/s
1	Fluoride	mg:/l	0.8	4500 F.C	15 mg/l
5	Y. Hardness	mg/l	140.5	S.302S (Fart-21)	i\qm003
δ.	Chloride	mg/l	10	IS 3025 (Part-32)	1000mg/l
7	Turbidity	mg/l	2.0	IS.3025 (Part-10)	SNIU
10	Nitrate	mg/L	5.0	4500 NO3 B	45 mg/l
11	Iron	1.500	0.00	31118	0.3 mg/s
12	Odour	mg/l	Agreeable	IS 3025 (Fart-05)	
13	Colour	mg/I	10	IS:3025 (Part-4)	1
14	Alkalinity	mg/!	122	IS 3025 (Part-23)	600 നള്
15	Magnesium	- Apon	14.7	(\$13025 (Part-46)	:00mar.
16	Calcium	mg/l	31.9	19:3025 (Part 40)	200 mg/s
17	Areenic	mo/l	NO	APHA 3 14 B	0.05 mg/
18	Zinc	HAGA	0.00	APHA 3111 B	15 mg/l
19	R.Chlorine	mg/l	0.00	IS 3025 (Part-26)	(0 mg/l
20	Sulphate	mg/l	32.4	IS 3025 (Pan-24)	400 mg/1
21	Copper	NTU	0.00	APHA 3111 B	1.5 mg/l

Remarks:-According to rested parameter, the results found within prescribe limit of Drinking water specification IS 10300.

Specific contractual notes: -

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Tested by Bajrang Kumar Analyst

Sunil Kr Singh Saction In Charge

Issued by Umesh Das Technical Manager Technical Manager

Yugantar Bharal, Analytical & Erry man early Englagering Laboratery





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ANALYTICA, & ENVIRONMENTAL ENGINEERING PARORATORY

LAB ACCREDITED BY

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

(T. 2082, Testing)

Test Report

__(B-1874)

asued to :

M/s Inland Power Limited Tonapatu Gola.

Tonagaiu, Gola, Dist.-Ramgarh, Jharkhand Sample Code: -171228-GW-W05

Report (D : YBAEELIRAW17-12-27/GW/05

Date of Issue: - 22nd Jan. 2018

Reference . YBAEELWAILICIDEC .- 17/09

Sample Particulars

Sample Name/Description: - Ground Water

Sample Quantity: - One litre (1000 ml X 1)

Sample pkg. Condition: - Sealed in plastic bottle

Details of Sampling

Date of sampling - 27-12-2017 Sample Received Date - 28-12-2017

Sampling Protocol: -YBAEELISPI01/00

Sample collected by: -Own! Neeras Kumar & leam

Sampling Location: - Near Stack

		Te	est Result		
Test started on: - 28.12.2017			Test completed on : 05.01 2018		
SI. No.	Tested Parameter	Unit	Results	Method Name	Permissible Limit (As per IS 10500 Specification)
1 -	рн		6.95	15.3075 (1/2/1-11)	3.5 685
2	Temperature	1 0 C	20.8	2550 8	< 40° C
3	Total dissolved solid	mg/l	318	15.3025 (Pan-16)	2000 mg/s
4	Fluoride	mg/l	05	€00 F C	1.5 mg/1
5	T, Hardness	انوس	237.8	IS.3025 (Pan-21)	600mgvi
8	Chloride	mg/l	18	IS.3025 (Pan-32)	1000mg/i
7	Turbidity	ingil	0.00	15:3025 (Pan 10)	SNIU
10	Nitrale	rng/l	3.4	4500 NO3 B	45 mg/l
11	Iron	Non N	0.00	31118	0.3 mg/l
12	Odour	mg/i	Agreeable	1S 3025 (Pan-05)	r
13	Colour	mg/l	্ ব্	1 Si 3025 (Part 4)	
-14 -	Alkalinify		204	15.3025 (Pan-23)	600 mg/l
15	Magnesium	mg/l	25.0	1\$ 3025 (Part 46)	100mg/i
16	Calcium	mg/l	53.9	IS 3025 (Part -40)	200 mg/:
17	Arsenic	mg/l	ON CIN	APHA 3114 B	0.05 mg/l
18	Zinc	Myr	0.18	APHA 31118	15 mg/l
19	R.Chlorine	mg/l	0.00	IS 3025 (Pan-26)	1.0 mg/l
20	Sulphate	ngA	47.3	15 3025 (Part. 24)	1 400 mail
21	Copper	UIN	0.50	API-A 31:119	1 5 mo/1
		~~ ·····E	nd of Test	· -	

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

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 adventising or as evidence in any count 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 esses of the certificate unless specified otherwise and sample for hiological 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

Tesled by Bajrang Kumar Analysi Cherkes by Sunil Kr. Singn Section in Charge Issued by
Umesh Das
Technical Manager

Technical Manager
Yugantar Bharati Analytical &
Environmental Engineering Laborator;









Core Zone Site - 2.

ANALYTICAL & INVIRCAMENTA: INGINIFRING LABORATORY

ABACCREDITED BY National Accreditation Board for Testing & Carbration Laboratory (NABL). New Delhis Ji architect Star Parisher Control Board (JSPCB) (T. 2982, T. 2018).

Test Report

_(Se1874)

lasued to :

M/s Inland Power Limited Tonagatu, Gola,

Dist.-Ramgarh, Jharkhand

Sample pkg. Condition : Sealed in plastic bottle

Sample Code: - 171228-099-W01

Report 10: YBAEELIRAM117-12-27/0W/01

Date of Issue. - 22rd Jan. 2018

Reference: Y8AEELWA/L/C/Dec.-17H0

Sample Particulars Details of Sampling

Sample Name/Description: - Drinking Water

Date of sampling : - 27-12-2017

Sample Quantity: - One litre (1000 ml X 1)

Date of sampling : - 27-12-2017

Sampling Protocol: -YBAEEL/SP/01/00

Sample collected by: Own / Neeraj Kumar & learn

Sampling Location: - Near Mess Area

			Sampling Location	1 - HEDI WESS MAS	
		Test	Result	·	
Test started on: - 28.12.2017			Test completed on . 05 01.2016		
\$1. No.	Tested Parameter	Unit	Results	Method Name	Permissible Limi (As per IS 10500 Specification)
1,	ρΗ		7.04	15 3025 (Pert 11)	6.5 60 8.5
2	Temperature	°C	20.8	2550 8	. < 10° C
<u>3.</u>	Total dissolved solid	mg/l	242	IS 3025 (Pan-16)	2000 mg/l
4.	Conductivity	⊬s/cm	393	IS 3025 (Part 14)	-
5.	Nitrate	mg/l	14.1	4500 NO3 B	100 mg/l
6.	T, Alkalinity	mail	148	5S:3025 (Pan-23)	600mg/l
7.	T. Hardness	mg/l	178.2	15, 3025 (Part-21)	600mg/i
6.	Chloride	mg/l	15	15:3025 (Pan 32)	1000mg/
9,	BOD	mg/l	0.4	15:3025 (Pan-44)	Tomor
10.	COD	mg/l	11.5_	1S:3025 (Part-58)	250mg/:
11,	Oil & grease	mg/l	<4	IS.3025 (Part-39)	10mg/l
12.	Copper	mg/l	ОК	B1115 AH9A	1 5 mg/r
13.	Odour	mg/	Agreeable	15:3025 (Fan5)	=058i
14.	Sulphate	mg/	20 2	IS 3025 (Part 24)	400mg/l
15.	kon	mg/	OM	APHA 1111 8	0.3mg/l
16.	Calcium	धार्यु	317	15 3025 (Dan 40)	200mg/s
17.	Magnesium	mg.1	11 8	IS:3025 (Part-37)	100mg/l
18.	Zinc	rng:	0.06	APP14 3111 B	15mg/l
19.	fluoride	10-	0.5	4500 ° C	1 5mg/
20.	Turbidity	UTU	1.0	IS 3025 (Part-10)	5NTU
21.	Potessium	rrgit	0.6	B-111E AMA	
22.	Spaium	man	5.7	APH4 J1: -8	

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

Specific contractual notes -

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All disputes are subjected to the Ranch Lunsdiction

Yezted by Balrang Kumar Analysi Chacked ov Sunil Kr Singh Section IncCharge

Issued by Umasi Dasi Technical Manager Tucklimical Manager

Technical Manager Yugar lar Sharali Analytical D Environmental Engineering Laon Chry



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