



UAM No. (MSME)
WB12E0004183

INDICATIVE CONSULTANT INDIA



FORMAT NO: ICIFM/01

(CONSULTANT, SURVEYOR & REGD. TEST HOUSE)

HPL Link Road, Basudevapur, Khanjanchak,
Haldia, Purba Medinipur, PIN-721602

☎ : 03224-275765, 📠 : 9434017584, 9232395890, 7797506973

E-mail : jayantasarkar67@gmail.com, indicativeconsultantindia@gmail.com, Website : www.indicativeconsultantindia.com

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/19-20/RIL/343
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/343
Report Date : 25.11.19
Date of Sampling : 19.11.19

To
20.11.19

Analysis Started on : 21.11.19
Analysis Completed on : 23.11.19

Sample Description : Ambient Air
Location : NEAR SCRAP YARD
Sample Condition : Glass Microfibre Filter Paper & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2012), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2012), IS: 5182 (Part - 6):2006 (RA 2012), Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method

Ambient Temperature : 26.0
in °C (Average)

Time of Sampling	Concentration ($\mu\text{g}/\text{m}^3$)							Concentration (mg/m^3)	Concentration (ng/m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	CO	Benzo(a) Pyrene	As	Ni
10:30 AM to 06:30 PM	70.76	22.25	16.66	31.90	BDL	BDL	BDL	0.2417	BDL	BDL	BDL
06:45 PM to 02:45 AM	84.41	32.09	20.83	39.45	BDL	BDL	BDL	0.3175	BDL	BDL	BDL
03:00 AM to 11:00 AM	80.28	24.36	37.49	33.57	BDL	BDL	BDL	0.3912	BDL	BDL	BDL

End of Report

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)
PM₁₀=100 $\mu\text{g}/\text{m}^3$, PM_{2.5}=60 $\mu\text{g}/\text{m}^3$, SO₂=80 $\mu\text{g}/\text{m}^3$, NO₂=80 $\mu\text{g}/\text{m}^3$, Lead=1.0 $\mu\text{g}/\text{m}^3$, Ammonia=400 $\mu\text{g}/\text{m}^3$, 24 hours basis, Carbon mono oxide=2 mg/m^3 , 8 hours basis, Benzene=5 $\mu\text{g}/\text{m}^3$, Benzopyrene=1 ng/m^3 , Arsenic=6 ng/m^3 , Nickel=20 ng/m^3 , Annual basis
For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

Checked By

For, Indicative Consultant India

Debasish Haider
(Sr. Chemist)
Signatory Authority



- Note : 1. Test results shown in this test report relate only to the item tested.
2. This test report shall not be reproduced anywhere except in full and in some format without the approval of the laboratory.
3. Retention period of tested samples (Filter Paper) is 6 months from the date of issue of test report unless otherwise specified.



UAM No. (MSME)
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INDICATIVE CONSULTANT INDIA



FORMAT NO: ICI/FM/51

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E-mail : jayantasarkar67@gmail.com, indicativeconsultantindia@gmail.com, Website : www.indicativeconsultantindia.com

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/19-20/RIL/343A
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/343A
Report Date : 25.11.19
Date of Sampling : 19.11.19
Analysis Started on : 21.11.19
Analysis Completed on : 21.11.19

Sample Description : Ambient Air
Location : NEAR SCRAP YARD
Sample Condition : Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle
Sampling Method : UV Photometric Method / Air Sampling & Analysis 3rd Edition, CPCB Guideline (Vol. - 1)
Test Method : Using O₃ Analyser/ Titrimetric Method

Time	Concentration ($\mu\text{g}/\text{m}^3$)
	Ozone as O ₃
10:30 AM to 06:30 PM	34.65

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)

O₃-100 $\mu\text{g}/\text{m}^3$, 8 hours basis (Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area)

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

Checked By

For, Indicative Consultant India

Debasish Halder
(Sr. Chemist)
Signatory Authority



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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/19-20/RIL/344
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/344
Report Date : 25.11.19
Date of Sampling : 19.11.19

To
20.11.19

Analysis Started on : 21.11.19
Analysis Completed on : 23.11.19

Sample Description : Ambient Air
Location : NEAR STOCK YARD
Sample Condition : Glass Microfibre Filter Paper & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2012), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2012), IS: 5182 (Part - 6):2006 (RA 2012), Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method

Ambient Temperature : 26.0
in °C (Average)

Time of Sampling	Concentration ($\mu\text{g}/\text{m}^3$)							Concentration (mg/m^3)	Concentration (ng/m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	CO	Benzo(a) Pyrene	As	Ni
10:15 AM to 06:15 PM	71.30	23.49	13.54	37.77	BDL	BDL	BDL	0.2375	BDL	BDL	BDL
06:30 PM to 02:30 AM	93.66	31.69	19.78	40.29	BDL	BDL	BDL	0.3511	BDL	BDL	BDL
02:45 AM to 10:45 AM	85.14	25.12	14.58	36.09	BDL	BDL	BDL	0.4111	BDL	BDL	BDL

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)

PM₁₀= 100 $\mu\text{g}/\text{m}^3$, PM_{2.5}=60 $\mu\text{g}/\text{m}^3$, SO₂=80 $\mu\text{g}/\text{m}^3$, NO₂=80 $\mu\text{g}/\text{m}^3$, Lead=1.0 $\mu\text{g}/\text{m}^3$, Ammonia=400 $\mu\text{g}/\text{m}^3$, 24 hours basis, Carbon mono oxide=2 mg/m^3 , 8 hours basis, Benzene=5 $\mu\text{g}/\text{m}^3$, Benzopyrene=1 ng/m^3 , Arsenic =6 ng/m^3 , Nickel=20 ng/m^3 , Annual basis

For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref : National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November '2009

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Report No. : ICI/A/19-20/RIL/344A
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/344A

Report Date : 25.11.19

Date of Sampling : 19.11.19

Analysis Started on : 21.11.19

Analysis Completed on : 21.11.19

Sample Description : Ambient Air
Location : NEAR STOCK YARD

Sample Condition : Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle

Sampling Method : UV Photometric Method / Air Sampling & Analysis 3rd Edition, CPCB Guideline (Vol. – 1)

Test Method : Using O₃ Analyser/ Titrimetric Method

Time	Concentration ($\mu\text{g}/\text{m}^3$)
	Ozone as O ₃
10:15 AM to 06:15 PM	34.75

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)

O₃-100 $\mu\text{g}/\text{m}^3$, 8 hours basis (Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area)

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November '2009

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/19-20/RIL/346
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/346
Report Date : 25.11.19
Date of Sampling : 19.11.19

To
20.11.19

Analysis Started on : 21.11.19
Analysis Completed on : 23.11.19

Sample Description : Ambient Air
Location : NEAR MAIN GATE
Sample Condition : Glass Microfibre Filter Paper & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2012), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2012), IS: 5182 (Part - 6):2006 (RA 2012), Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method

Ambient Temperature : 26.0
in °C (Average)

Time of Sampling	Concentration ($\mu\text{g}/\text{m}^3$)							Concentration (mg/m^3)	Concentration (ng/m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	CO	Benzo(a) Pyrene	As	Ni
10:00 AM to 06:00 PM	73.28	26.55	16.66	36.09	BDL	BDL	BDL	0.2311	BDL	BDL	BDL
06:15 PM to 02:15 AM	87.46	30.53	22.91	44.49	BDL	BDL	BDL	0.2917	BDL	BDL	BDL
02:30 AM to 10:30 AM	84.77	27.81	19.78	38.61	BDL	BDL	BDL	0.3675	BDL	BDL	BDL

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)

PM₁₀ = 100 $\mu\text{g}/\text{m}^3$, PM_{2.5} = 60 $\mu\text{g}/\text{m}^3$, SO₂ = 80 $\mu\text{g}/\text{m}^3$, NO₂ = 80 $\mu\text{g}/\text{m}^3$, Lead = 1.0 $\mu\text{g}/\text{m}^3$, Ammonia = 400 $\mu\text{g}/\text{m}^3$, 24 hours basis, Carbon mono oxide = 2 mg/m^3 , 8 hours basis, Benzene = 5 $\mu\text{g}/\text{m}^3$, Benzopyrene = 1 ng/m^3 , Arsenic = 6 ng/m^3 , Nickel = 20 ng/m^3 , Annual basis
For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November, 2009

For, Indicative Consultant India

Checked By

Debasish Halder
(Sr. Chemist)
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TEST REPORT

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Report No. : ICI/A/19-20/RIL/346A
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/346A
Report Date : 25.11.19
Date of Sampling : 19.11.19
Analysis Started on : 21.11.19
Analysis Completed on : 21.11.19

Sample Description : Ambient Air
Location : NEAR MAIN GATE
Sample Condition : Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle
Sampling Method : UV Photometric Method / Air Sampling & Analysis 3rd Edition, CPCB Guideline (Vol. - 1)
Test Method : Using O₃ Analyser/ Titrimetric Method

Time	Concentration ($\mu\text{g}/\text{m}^3$)
	Ozone as O ₃
10:00 AM to 06:00 PM	39.15

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)
O₃-100 $\mu\text{g}/\text{m}^3$, 8 hours basis (Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area)

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November '2009

A. S. Sarkar

Checked By

For, Indicative Consultant India

Debasmita Haldar
(Sr. Chemist)

Signatory Authority



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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/19-20/RIL/347
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/347

Report Date : 25.11.19

Date of Sampling : 19.11.19

To

20.11.19

Analysis Started on : 21.11.19

Analysis Completed on : 23.11.19

Sample Description : Ambient Air
Location : BACK SIDE OF THE PLANT
Sample Condition : Glass Microfibre Filter Paper & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2012), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2012), IS: 5182 (Part - 6):2006 (RA 2012), Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method

Ambient Temperature : 26.0

in °C (Average)

Time of Sampling	Concentration ($\mu\text{g}/\text{m}^3$)							Concentration (mg/m^3)	Concentration (ng/m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	CO	Benzo(a) Pyrene	As	Ni
10:45 AM to 06:45 PM	82.62	30.67	14.58	38.61	BDL	BDL	BDL	0.2375	BDL	BDL	BDL
07:00 PM to 03:00 AM	95.42	37.37	17.70	42.81	BDL	BDL	BDL	0.2911	BDL	BDL	BDL
03:15 AM to 11:15 AM	87.10	28.43	13.54	37.77	BDL	BDL	BDL	0.3872	BDL	BDL	BDL

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)

PM₁₀= 100 $\mu\text{g}/\text{m}^3$, PM_{2.5}=60 $\mu\text{g}/\text{m}^3$, SO₂=80 $\mu\text{g}/\text{m}^3$, NO₂=80 $\mu\text{g}/\text{m}^3$, Lead=1.0 $\mu\text{g}/\text{m}^3$, Ammonia=400 $\mu\text{g}/\text{m}^3$, 24 hours basis, Carbon mono oxide=2 mg/m^3 , 8hours basis, Benzene=5 $\mu\text{g}/\text{m}^3$, Benzopyrene=1 ng/m^3 , Arsenic =6 ng/m^3 , Nickel=20 ng/m^3 , Annual basis

For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

For, Indicative Consultant India

Checked By

Debashis Halder
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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/19-20/RIL/347A
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/347A
Report Date : 25.11.19
Date of Sampling : 19.11.19
Analysis Started on : 21.11.19
Analysis Completed on : 21.11.19

Sample Description : Ambient Air
Location : BACK SIDE OF THE PLANT
Sample Condition : Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle
Sampling Method : UV Photometric Method / Air Sampling & Analysis 3rd Edition, CPCB Guideline (Vol. - 1)
Tes. Method : Using O₃ Analyser/ Titrimetric Method

Time	Concentration ($\mu\text{g}/\text{m}^3$)
	Ozone as O ₃
10:45 AM to 06:45 PM	33.65

----- End of Report -----

Limit: ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)
O₃-100 $\mu\text{g}/\text{m}^3$, 8 hours basis (Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area)

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November '2009

Asis' plates
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Debasish Haldar
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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India
Sample submitted and identified by customer as: N.A.

Report No. : ICI/W/19-20/1062
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, PaschimMedinipur.
Sample Condition : In Plastic Bottle & Glass Bottle
Sample Description : Drinking Water
Sampling Method : IS:3025 (Part I): 1987 (RA 2019), APHA 23rd ed 2017
Test Method : APHA 23rd ed 2017, IS:3025
Location : Quality Control Laboratory

Sample Ref. No. : W/1062
Report Date : 27.11.19
Date of Sampling : 19.11.19
Analysis Started on : 20.11.19
Analysis Completed on : 26.11.19
Time of Sampling : 12:30 PM

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
1.	Appearance	-	Clear	-	-	-
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Part-5):2018 APHA 23 rd Edition 2150 B
3.	pH (at 23°C)	-	6.85	6.5 to 8.5	No Relaxation	IS:3025(Part-11):1983 : RA 2017, APHA 23 rd Edition 4500-H ⁺ B
4.	Conductivity	µS/cm	114.0	-	-	IS: 3025(Part-14):1984: RA 2019 APHA 23 rd Edition 2510 B
5.	Colour	Hazen Unit	<5.0	5	15	IS:3025(Part-4) 1983: RA 2017
6.	Turbidity	N.T.U.	<1.0	1 (Max)	5 (Max)	IS:3025(Part-10):1984: RA 2017 APHA 23 rd Edition 2130 B
7.	Total Dissolved Solid (TDS)	mg/L	90.0	500 (Max)	2000 (Max)	IS:3025(Part-16):1984: RA 2017 APHA 23 rd Edition 2540 C
8.	Total Hardness as CaCO ₃	mg/L	42.5	200 (Max)	600 (Max)	IS:3025(Part-21):2009: RA 2019 APHA 23 rd Edition 2340 C
9.	Ca Hardness as CaCO ₃	mg/L	31.4	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness as CaCO ₃	mg/L	11.1	-	-	APHA 23 rd Edition 2340 C
11.	Calcium as Ca	mg/L	12.6	75 (Max)	200 (Max)	IS:3025(Part-40):1991: RA 2014 APHA 23 rd Edition 3500Ca B
12.	Magnesium as Mg	mg/L	2.7	30 (Max)	100 (Max)	IS:3025(Part-46):1994: RA 2019 APHA 23 rd Edition 3500Mg B
13.	Chloride as Cl	mg/L	10.5	250 (Max)	1000 (Max)	IS:3025(Part-32):1988: RA 2019 APHA 23 rd Edition 4500Cl ⁻ B
14.	Total Alkalinity as CaCO ₃	mg/L	47.8	200 (Max)	600 (Max)	IS:3025(Part-23):1986: RA 2019 APHA 23 rd Edition 2320 B
15.	P-Alkalinity as CaCO ₃	mg/L	Nil	-	-	APHA 23 rd Edition 2320B
16.	M-Alkalinity as CaCO ₃	mg/L	47.8	-	-	APHA 23 rd Edition 2320B





UAM No. (MSME)
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Report No : ICI/W/19-20/1062

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
17.	Iron as Fe	mg/L	0.06	0.3 (Max)	No Relaxation	IS:3025(Part-53):2003; RA 2019
18.	Sulfate as SO ₄	mg/L	<1.5	200 (Max)	400 (Max)	APHA 23 rd Edition 3500-Fe B
19.	Phosphate as P	mg/L	<0.02	-	-	IS:3025(Part-24):1986; RA 2019
20.	Arsenic as As	mg/L	<0.01	0.01 (Max)	0.05 (Max)	APHA 23 rd Edition 4500 SO ₄ ²⁻ E
21.	Manganese as Mn	mg/L	<0.1	0.1 (Max)	0.3 (Max)	APHA 23 rd Edition 4500P D
22.	Silica as SiO ₂	mg/L	22.8	-	-	APHA 23 rd Edition 3500As B
23.	Fluoride as F	mg/L	<0.04	1 (Max)	1.5 (Max)	APHA 23 rd Edition 3111 B
Bacteriological Characteristics						
24.	Total Coliform	MPN/100 ml	<2.0	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)
25.	Fecal Coliform	MPN/100 ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)

Remarks: 1) Chemical test parameters: Compliance – The above mentioned test parameters are within the desirable limit as per specification IS 10500:2012
2) Bacteriological test parameters: Compliance – The above mentioned test parameters are within desirable limit as per Specification IS 10500:2012

----- End of Report -----

Checked By: Nitu Sarddar

For, Indicative Consultant India

Debashis Halder
(Sr. Chemist)
Signatory Authority



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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India
Sample submitted and identified by customer as: N.A.

Report No. : ICI/W/19-20/1063
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.
Sample Condition : In Plastic Bottle & Glass Bottle
Sample Description : Drinking Water
Sampling Method : IS:3025 (Part I): 1987 (RA 2019), APHA 23rd ed 2017
Test Method : APHA 23rd ed 2017, IS:3025
Location : Inside the Plant

Sample Ref. No. : W/1063
Report Date : 27.11.19
Date of Sampling : 19.11.19
Analysis Started on : 20.11.19
Analysis Completed on : 26.11.19
Time of Sampling : 12:40 PM

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
1.	Appearance	-	Clear	-	-	-
2.	Odour	-	Agreeable	Agreeable	Agreeable	-
3.	pH (at 23°C)	-	6.60	6.5 to 8.5	No Relaxation	IS:3025(Part-5):2018 APHA 23 rd Edition 2150 B
4.	Conductivity	µS/cm	113.0	-	-	IS:3025(Part-11):1983 : RA 2017, APHA 23 rd Edition 4500-H ⁺ B
5.	Colour	Hazen Unit	<5.0	5	15	IS: 3025(Part-14):1984: RA 2019 APHA 23 rd Edition 2510 B
	Turbidity	N.T.U.	<1.0	1 (Max)	5 (Max)	IS:3025(Part-4) 1983: RA 2017
7.	Total Dissolved Solid (TDS)	mg/L	88.0	500 (Max)	2000 (Max)	IS:3025(Part-10):1984: RA 2017 APHA 23 rd Edition 2130 B
8.	Total Hardness as CaCO ₃	mg/L	42.5	200 (Max)	600 (Max)	IS:3025(Part-16):1984: RA 2017 APHA 23 rd Edition 2540 C
9.	Ca Hardness as CaCO ₃	mg/L	32.4	-	-	IS:3025(Part-21):2009: RA 2019 APHA 23 rd Edition 2340 C
10.	Mg Hardness as CaCO ₃	mg/L	10.1	-	-	APHA 23 rd Edition 2340 C
11.	Calcium as Ca	mg/L	13.0	75 (Max)	200 (Max)	APHA 23 rd Edition 2340 C
12.	Magnesium as Mg	mg/L	2.5	30 (Max)	100 (Max)	IS:3025(Part-40):1991: RA 2014 APHA 23 rd Edition 3500Ca B
13.	Chloride as Cl	mg/L	12.6	250 (Max)	1000 (Max)	IS:3025(Part-46):1994: RA 2019 APHA 23 rd Edition 3500Mg B
14.	Total Alkalinity as CaCO ₃	mg/L	47.8	200 (Max)	600 (Max)	IS:3025(Part-32):1988: RA 2019 APHA 23 rd Edition 4500Cl ⁻ B
15.	P-Alkalinity as CaCO ₃	mg/L	Nil	-	-	IS:3025(Part-23):1986: RA 2019 APHA 23 rd Edition 2320 B
16.	M-Alkalinity as CaCO ₃	mg/L	47.8	-	-	APHA 23 rd Edition 2320B APHA 23 rd Edition 2320B



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Report No : ICI/W/19-20/1063

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
17.	Iron as Fe	mg/L	0.05	0.3 (Max)	No Relaxation	IS:3025(Part-53):2003: RA 2019 APHA 23 rd Edition 3500-Fe B
18.	Sulfate as SO ₄	mg/L	<1.5	200 (Max)	400 (Max)	IS:3025(Part-24):1986: RA 2019 APHA 23 rd Edition 4500 SO ₄ ²⁻ E
19.	Phosphate as P	mg/L	<0.02	-	-	APHA 23 rd Edition 4500P D
20.	Arsenic as As	mg/L	<0.01	0.01 (Max)	0.05 (Max)	APHA 23 rd Edition 3500As B
21.	Manganese as Mn	mg/L	<0.1	0.1 (Max)	0.3 (Max)	APHA 23 rd Edition 3111 B
22.	Silica as SiO ₂	mg/L	22.3	-	-	IS:3025(Part-35):1988, RA 2019 APHA 23 rd Edition 4500 SiO ₂ C
23.	Fluoride as F	mg/L	<0.04	1 (Max)	1.5 (Max)	IS:3025(Part-60):2008 : RA 2019 APHA 23 rd Edition 4500 FD
Bacteriological Characteristics						
24.	Total Coliform	MPN/100 ml	<2.0	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)
25.	Fecal Coliform	MPN/100 ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)

Remarks: 1) Chemical test parameters: Compliance – The above mentioned test parameters are within the desirable limit as per specification IS 10500:2012

2) Bacteriological test parameters: Compliance – The above mentioned test parameters are within desirable limit as per Specification IS 10500:2012

----- End of Report -----

Checked By: Nitu Sarddar

For, Indicative Consultant India

Debashis Halder
(Sr. Chemist)
Signatory Authority



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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Sample submitted and identified by customer as: N.A.

Report No. : ICI/W/19-20/1064
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, PaschimMedinipur.
Sample Condition : In Plastic Bottle & Glass Bottle
Sample Description : Drinking Water
Sampling Method : IS:3025 (Part I): 1987 (RA 2019), APHA 23rd ed 2017
Test Method : APHA 23rd ed 2017, IS:3025
Location : Guest House

Sample Ref. No. : W/1064
Report Date : 27.11.19
Date of Sampling : 19.11.19
Analysis Started on : 20.11.19
Analysis Completed on : 26.11.19
Time of Sampling : 12:50 PM

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
1.	Appearance	-	Clear	-	-	-
2.	Odour	-	Agreeable	Agreeable	Agreeable	-
3.	pH (at 23°C)	-	6.51	6.5 to 8.5	No Relaxation	IS:3025(Part-5):2018 APHA 23 rd Edition 2150 B
4.	Conductivity	µS/cm	118.0	-	-	IS:3025(Part-11):1983 : RA 2017, APHA 23 rd Edition 4500-H° B
5.	Colour	Hazen Unit	<5.0	5	15	IS: 3025(Part-14):1984; RA 2019 APHA 23 rd Edition 2510 B
6.	Turbidity	N.T.U.	<1.0	1 (Max)	5 (Max)	IS:3025(Part-4) 1983: RA 2017
7.	Total Dissolved Solid (TDS)	mg/L	86.0	500 (Max)	2000 (Max)	IS:3025(Part-10):1984: RA 2017 APHA 23 rd Edition 2130 B
8.	Total Hardness as CaCO ₃	mg/L	43.5	200 (Max)	600 (Max)	IS:3025(Part-16):1984: RA 2017 APHA 23 rd Edition 2540 C
9.	Ca Hardness as CaCO ₃	mg/L	31.4	-	-	IS:3025(Part-21):2009: RA 2019 APHA 23 rd Edition 2340 C
10.	Mg Hardness as CaCO ₃	mg/L	12.1	-	-	APHA 23 rd Edition 2340 C
11.	Calcium as Ca	mg/L	12.6	75 (Max)	200 (Max)	IS:3025(Part-40):1991: RA 2014 APHA 23 rd Edition 3500Ca B
12.	Magnesium as Mg	mg/L	2.9	30 (Max)	100 (Max)	IS:3025(Part-46):1994: RA 2019 APHA 23 rd Edition 3500Mg B
13.	Chloride as Cl	mg/L	11.5	250 (Max)	1000 (Max)	IS:3025(Part-32):1988: RA 2019 APHA 23 rd Edition 4500Cl° B
14.	Total Alkalinity as CaCO ₃	mg/L	47.8	200 (Max)	600 (Max)	IS:3025(Part-23):1986: RA 2019 APHA 23 rd Edition 2320 B
15.	P-Alkalinity as CaCO ₃	mg/L	Nil	-	-	APHA 23 rd Edition 2320B
16.	M-Alkalinity as CaCO ₃	mg/L	47.8	-	-	APHA 23 rd Edition 2320B





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Report No : ICI/W/19-20/1064

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
17.	Iron as Fe	mg/L	0.09	0.3 (Max)	No Relaxation	IS:3025(Part-53):2003: RA 2019 APHA 23 rd Edition 3500-Fe B
18.	Sulfate as SO ₄	mg/L	<1.5	200 (Max)	400 (Max)	IS:3025(Part-24):1986: RA 2019 APHA 23 rd Edition 4500 SO ₄ ²⁻ E
19.	Phosphate as P	mg/L	<0.02	-	-	APHA 23 rd Edition 4500P D
20.	Arsenic as As	mg/L	<0.01	0.01 (Max)	0.05 (Max)	APHA 23 rd Edition 3500As B
21.	Manganese as Mn	mg/L	<0.1	0.1 (Max)	0.3 (Max)	APHA 23 rd Edition 3111 B
22.	Silica as SiO ₂	mg/L	22.2	-	-	IS:3025(Part-35):1988, RA 2019 APHA 23 rd Edition 4500 SiO ₂ C
23.	Fluoride as F	mg/L	<0.04	1 (Max)	1.5 (Max)	IS:3025(Part-60):2008 : RA 2019 APHA 23 rd Edition 4500 FD
Bacteriological Characteristics						
24.	Total Coliform	MPN/100 ml	<2.0	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)
25.	Fecal Coliform	MPN/100 ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)

Remarks: 1) Chemical test parameters: Compliance – The above mentioned test parameters are within the desirable limit as per specification IS 10500:2012

2) Bacteriological test parameters: Compliance – The above mentioned test parameters are within desirable limit as per Specification IS 10500:2012

----- End of Report -----

Nitu Sarddar

Checked By: Nitu Sarddar

For, Indicative Consultant India

Debasish Halder
(Sr. Chemist)
Signatory Authority



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E-mail : jayantasarkar67@gmail.com, indicativeconsultantindia@gmail.com, Website : www.indicativeconsultantindia.com

TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/19-20/799
Issued To : M/s. Ramco Industries Ltd
Address : Dewanmara Ayma, P.O. - Hariatara,
Kharagpur, Dist. - Paschim Medinipur.
Sample Description : Workzone Noise
Sampling Method : By Digital Noise Meter
Test Method : IS 4758:1968 (RA 2017)
Location : Near BOD
Limit : 90 dB (A) (8 hrs. per day exposure)
[Source: CPCB standard (Annexure - III)]

Sample Ref. No. : SL/799
Report Date : 25.11.19
Date of Monitoring : 19.11.19

Monitoring Details :

Height from the floor : 1.5 M
Distance of Source : 3.0 M

Starting Time : 11:10 AM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 ^{^(Li/10)}	Sum of ft X 10 ^{^(Li/10)}
1	84.9	0.11111111	30902954.325	356164554.111
2	86.1		40738027.780	
3	85.8		38018939.632	
4	84.3		26915348.039	
5	86.7		46773514.129	
6	85.6		36307805.477	
7	84.6		28840315.031	
8	85.2		33113112.148	
9	86.4		43651583.224	
10	84.9		30902954.325	

* The equivalent Noise Level Leq. 85.52 dB(A)

Maximum dB(A): 86.7

Minimum dB (A): 84.3

..... End of Report

Checked By: Nitu Sarddar

For, INDICATIVE CONSULTANT INDIA

Debashis Haldar
(Sr. Chemist)
Signatory Authority



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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/19-20/800
Issued To : M/s. Ramco Industries Ltd
Address : Dewanmara Ayma, P.O. - Hariatara,
Kharagpur, Dist. - Paschim Medinipur.
Sample Description : Workzone Noise
Sampling Method : By Digital Noise Meter
Test Method : IS 4758:1968 (RA 2017)
Location : Near SF Drum
Limit : 90 dB (A) (8 hrs. per day exposure)
[Source: CPCB standard (Annexure - III)]

Sample Ref. No. : SL/800
Report Date : 25.11.19
Date of Monitoring : 19.11.19

Monitoring Details :

Height from the floor : 1.5 M
Distance of Source : 3.0 M

Starting Time : 11:30 AM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 ^{^(Li/10)}	Sum of ft X 10 ^{^(Li/10)}
1	86.8	0.11111111	47863009.232	553567117.236
2	88.1		64565422.903	
3	87.5		56234132.519	
4	86.4		43651583.224	
5	87.3		53703179.637	
6	88.2		66069344.801	
7	86.5		44668359.215	
8	87.3		53703179.637	
9	88.7		74131024.130	
10	86.9		48977881.937	

* The equivalent Noise Level Leq. 87.43 dB(A)

Maximum dB(A): 88.7

Minimum dB (A): 86.4

..... End of Report

Checked By: Nitu Sarddar

For, INDICATIVE CONSULTANT INDIA

Debashis Halder
(Sr. Chemist)

Signatory Authority



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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/19-20/801

Issued To : M/s. Ramco Industries Ltd

Address : Dewanmara Ayma, P.O. - Hariatara,
Kharagpur, Dist. - Paschim Medinipur.

Sample Description : Workzone Noise

Sampling Method : By Digital Noise Meter

Test Method : IS 4758:1968 (RA 2017)

Location : Near Corrugation Box

Limit : 90 dB (A) (8 hrs. per day exposure)

[Source: CPCB standard (Annexure - III)]

Monitoring Details :

Height from the floor : 1.5 M

Distance of Source : 3.0 M

Starting Time : 11:50 AM

Total Time (T) : 18 Min

Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 ^{^(Li/10)}	Sum of ft X 10 ^{^(Li/10)}
1	87.4	0.11111111	54954087.386	524616094.732
2	88.1		64565422.903	
3	86.5		44668359.215	
4	87.1		51286138.399	
5	88.0		63095734.448	
6	86.3		42657951.880	
7	87.7		58884365.536	
8	86.8		47863009.232	
9	86.2		41686938.347	
10	87.4		54954087.386	

* The equivalent Noise Level Leq. 87.20 dB(A)

Maximum dB(A): 88.1

Minimum dB (A): 86.2

..... End of Report

Checked By: Nitu Sarddar

For, INDICATIVE CONSULTANT INDIA

Debashis Halder
(Sr. Chemist)

Signatory Authority



Note : 1. Test results shown in this test report relate only to the item tested.

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Durgapur Office : C/o - Manisri Das, 34 Maulana Azad Sarani, City Centre, Durgapur, Dist. West Burdwan, Pin 713216, Mob. : 9232395890, 7797506970



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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/19-20/802
Issued To : M/s. Ramco Industries Ltd
Address : Dewanmara Ayma, P.O. - Hariatara,
Kharagpur, Dist. - Paschim Medinipur.
Sample Description : Workzone Noise
Sampling Method : By Digital Noise Meter
Test Method : IS 4758:1968 (RA 2017)
Location : Stripping Section
Limit : 90 dB (A) (8 hrs. per day exposure)
[Source: CPCB standard (Annexure - III)]

Sample Ref. No. : SL/802
Report Date : 25.11.19
Date of Monitoring : 19.11.19

Monitoring Details :

Height from the floor : 1.5 M
Distance of Source : 3.0 M

Starting Time : 12:10 PM
Total Time (T) : 18 Min
Difference (dt) : 2 Min

Sl. No.	Noise Level (Li)	ft = dt/T	ft X 10 ^{^(Li/10)}	Sum of ft X 10 ^{^(Li/10)}
1	87.7	0.11111111	58884365.536	685725056.497
2	88.6		72443596.007	
3	87.5		56234132.519	
4	89.4		87096358.996	
5	87.3		53703179.637	
6	89.1		81283051.616	
7	88.1		64565422.903	
8	87.6		57543993.734	
9	89.2		83176377.110	
10	88.5		70794578.438	

* The equivalent Noise Level Leq. 88.36 dB(A)

Maximum dB(A): 89.4

Minimum dB (A): 87.3

[Signature]

Checked By: Nitu Sarddar

..... End of Report

For, INDICATIVE CONSULTANT INDIA

[Signature]
Debashis Halder
(Sr. Chemist)

Signatory Authority



Note : 1. Test results shown in this test report relate only to the item tested.

2. This test report shall not be reproduce anywhere except in full and in same format without the approval of the laboratory.