



UAM No. (MSME)
WB12E0004183

INDICATIVE CONSULTANT INDIA



FORMAT NO.: ICI/FM/52

(CONSULTANT, SURVEYOR & REGD. TEST HOUSE)
HPL Link Road, Basudevapur, Khanjanchak,
Haldia, Purba Medinipur, PIN-721602

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/H/19-20/1117
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, PaschimMedinipur.
Sample Description : Stack Air
Location : Edge Runner Mill BOD & Slurry Mixing
Sample Condition : In Glass Microfibre Thimble
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 11255 (Part -I), 1985, Reaffirmed 2003, IS: 11255 (Part -3) 2008, ORSAT Method

Sample Ref. No. : A/H/1117
Report Date : 31.12.19
Date of Sampling : 27.12.19
Analysis Started on : 30.12.19
Analysis completed on : 30.12.19
Time of Sampling : 10:10 AM

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant			
Stack attached to	: Edge runner Mill BOD & Slurry Mixing	Shape of Stack	: Circular
Emission due to	: Process Activities	Material of Construction	: M.S.
Fuel Used	: -	Stack ID at sampling point (M)	: 0.30
Rated Fuel Consumption	: -	At Bottom (M)	: -
Working Fuel Consumption	: -	At Top (M)	: 0.30
Calorific Value(Kcal/kg)	: -	Height Details :	
Sulphur Content (% by Wt)	: -	a) Total Ht. Of stack from GL(M)	: 15.0
Ash Content (% by Wt.)	: -	b) Total Ht. Of stack from RL(M)	: -
Pollution Control Device	: Bag Filter & Wet Scrubber	c) Ht. of sampling port from GL(M)	: 8.4
Whether Stack is provided with permanent Platform/Ladder	: Yes	d) Ht. of port from disturbance zone (M)	: -

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	: 28	Steam Generation Capacity :	
Barometric Pressure,(mm Hg)	: 756	a) Rated	: -
Velocity of Gas flow (m/s)	: 7.74	b) Running	: -
Quantity of Gas flow (Nm ³ /hr)	: 1941.49	Load : a) Rated	: -
Pressure	: -	b) Running	: 1 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	: 1.6
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	: -
03.	Sulphur di-oxide (mg/ Nm ³)	: -
04.	NOx (mg/m ³)	: -
05.	CO % (V/V)	: <0.2
06.	CO ₂ % (V/V)	: <0.2

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

Checked By: Nitu Sarddar

For, Indicative Consultant India

Parbati Golui
(Manager Laboratory)
Signatory Authority
Indicative Consultant India

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2. This test report shall not be reproduce anywhere except in full and in same format without the approval of the laboratory.
3. Retention period of tested samples (Thimble) is 6 months from the date of issue of test report unless otherwise specified.
4. All general informations of stack are provided by the party.



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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/H/19-20/1118
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, PaschimMedinipur.

Sample Ref. No. : A/H/1118
Report Date : 31.12.19
Date of Sampling : 27.12.19
Analysis Started on : 30.12.19
Analysis completed on : 30.12.19
Time of Sampling : 11:10 AM

Sample Description : Stack Air
Location : Cement & Fly Ash Feeding Section
Sample Condition : In Glass Microfibre Thimble
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3) 2008, ORSAT Method

A. GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant

Stack attached to : Cement & Fly ash feeding Section
Emission due to : Feeding of Raw Material
Fuel Used : -
Rated Fuel Consumption : -
Working Fuel Consumption : -
Calorific Value(Kcal/kg) : -
Sulphur Content (% by Wt) : -
Ash Content (% by Wt.) : -

Shape of Stack : Circular
Material of Construction : M.S.
Stack ID at sampling point (M) : 0.40
At Bottom (M) : -
At Top (M) : 0.40

Height Details :

a) Total Ht. Of stack from GL(M) : 15.0
b) Total Ht. Of stack from RL(M) : -
c) Ht. of sampling port from GL(M) : 8.4
d) Ht. of port from disturbance zone (M) : -

Pollution Control Device : Bag Filter

Whether Stack is provided with permanent Platform/Ladder : Yes

B. PHYSICAL DATA:

Flue Gas Temperature (°C) : 29
Barometric Pressure,(mm Hg) : 756
Velocity of Gas flow (m/s) : 8.00
Quantity of Gas flow (Nm³/hr) : 3799.59
Pressure : -

Steam Generation Capacity :

a) Rated : -
b) Running : -
Load : a) Rated : -
b) Running : 10 Ton/Hr.

C. RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	8.0
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	-
03.	Sulphur di-oxide (mg/ Nm ³)	-
04.	NOx (mg/m ³)	-
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	<0.2

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

Checked By: Nitu Sarddar

For, Indicative Consultant India

Parbati Golui
(Manager Laboratory)
Signatory Authority

Parbati Golui

Manager Laboratory
Indicative Consultant India

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/H/19-20/1119
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, PaschimMedinipur.

Sample Ref. No. : A/H/1119
Report Date : 31.12.19
Date of Sampling : 27.12.19
Analysis Started on : 30.12.19
Analysis completed on : 30.12.19
Time of Sampling : 01:10 PM

Sample Description : Stack Air
Location : Pulverizer Section
Sample Condition : In Glass Microfibre Thimble
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3) 2008, ORSAT Method

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant

Stack attached to : Pulverizer Section
Emission due to : Process Activity
Fuel Used : -
Rated Fuel Consumption : -
Working Fuel Consumption : -
Calorific Value(Kcal/kg) : -

Shape of Stack : Circular
Material of Construction : M.S.
Stack ID at sampling point (M) : 0.2541
At Bottom (M) : -
At Top (M) : -

Height Details :

a) Total Ht. Of stack from GL(M) : 15.0
b) Total Ht. Of stack from RL(M) : -
c) Ht. of sampling port from GL(M) : 6.7
d) Ht. of port from disturbance zone (M) : -

Sulphur Content (% by Wt) : -
Ash Content (% by Wt.) : -

Pollution Control Device : Bag Filter

Whether Stack is provided with permanent Platform/Ladder : Yes

B.] PHYSICAL DATA:

Flue Gas Temperature (°C) : 30
Barometric Pressure,(mm Hg) : 756
Velocity of Gas flow (m/s) : 7.77
Quantity of Gas flow (Nm³/hr) : 1389.07
Pressure : -

Steam Generation Capacity :

a) Rated : -
b) Running : -
Load : a) Rated : -
b) Running : 1Ton/Hr.

C.] RESULT OF SAMPLING:

No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	20.0
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	-
03.	Sulphur di-oxide (mg/ Nm ³)	-
04.	NOx (mg/m ³)	-
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	<0.2

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

Checked By: Nitu Sarddar

For, Indicative Consultant India

Parbati Golui
(Manager Laboratory)
Signatory Authority

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Parbati Golui
Manager Laboratory
Indicative Consultant India



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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/H/19-20/1120
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, PaschimMedinipur.

Sample Ref. No. : A/H/1120
Report Date : 31.12.19
Date of Sampling : 27.12.19
Analysis Started on : 30.12.19
Analysis completed on : 30.12.19
Time of Sampling : 12:10 PM

Sample Description : Stack Air
Location : D.G. Set (725 KVA)
Sample Condition : In Glass Microfibre Thimble & Plastic Bottle
Sampling Method : CPCB, Emission Regulation (Part III)
Test Method : CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3), 2008, IS: 11255 (Part -2), 1985, Reaffirmed 2003, ORSAT Method, EPA Method No. - 7.

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant		Shape of Stack	: Circular
Stack attached to	: D.G. Set (725 KVA)	Material of Construction	: M.S.
Emission due to	: Combustion of H.S.D	Stack ID at sampling point (M)	: 0.20
Fuel Used	: H.S.D	At Bottom (M)	: -
Rated Fuel Consumption	: 145 Lit/Hr.	At Top (M)	: 0.20
Working Fuel Consumption	: 145 Lit/Hr.	Height Details :	
Calorific Value(Kcal/kg)	: -	a) Total Ht. Of stack from GL(M)	: 16.0
Sulphur Content (% by Wt)	: -	b) Total Ht. Of stack from RL(M)	: -
Ash Content (% by Wt.)	: -	c) Ht. of sampling port from GL(M)	: 8.4
Pollution Control Device	: Nil	d) Ht. of port from disturbance zone (M)	: -
Whether Stack is provided with permanent Platform/Ladder : Yes			

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	: 161	Steam Generation Capacity:	
Barometric Pressure,(mm Hg)	: 754	a) Rated	: -
Velocity of Gas flow (m/s)	: 12.97	b) Running	: -
Quantity of Gas flow (Nm ³ /hr)	: 1003.14	Load :	
Pressure	: -	a) Rated	: 725 KVA
		b) Running	: 725 KVA

C.] RESULT OF SAMPLING:

No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	70.0
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	-
03.	Sulphur di-oxide (mg/ Nm ³)	250.79
04.	NO _x (mg/m ³)	187.15
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	6.8

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

Checked By: Nitu Sarddar

For, Indicative Consultant India

Parbati Golui
(Manager Laboratory)
Signatory Authority

Parbati Golui
Manager Laboratory
Indicative Consultant India

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/19-20/RIL/432
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/432
Report Date : 03.01.20
Date of Sampling : 27.12.19
To : 28.12.19

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 : 21.0
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	82.08	21.01	17.87	36.14	BDL	BDL	BDL	0.2512	BDL	BDL	BDL
06:45 PM to 02:45 AM	91.99	34.13	21.84	42.46	BDL	BDL	BDL	0.2917	BDL	BDL	BDL
03:00 AM to 11:00 AM	84.23	27.50	18.86	37.94	BDL	BDL	BDL	0.3305	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: Nitu Sarddar

Debashis 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/432A
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/432A
Report Date : 03.01.20
Date of Sampling : 27.12.19
Analysis Started on : 30.12.19
Analysis Completed on : 30.12.19

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	36.5

----- 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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Checked By: Nitu Sarddar

For, Indicative Consultant India

Debashis Halder
(Sr. Chemist)
Signatory Authority



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FORMAT NO: ICI/FM/5

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/19-20/RIL/433
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/433

Report Date : 03.01.20

Date of Sampling : 27.12.19

To

28.12.19

Analysis Started on : 30.12.19

Analysis Completed on : 02.01.20

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 : 20.0
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	86.39	23.49	16.94	39.75	BDL	BDL	BDL	0.2311	BDL	BDL	BDL
06:30 PM to 02:30 AM	91.74	32.06	19.94	43.36	BDL	BDL	BDL	0.2915	BDL	BDL	BDL
02:45 AM to 10:45 AM	83.51	28.21	17.94	41.56	BDL	BDL	BDL	0.3407	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: Nitu Sarddar

Debashis Halder
(Sr. Chemist)
Signatory Authority



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TEST REPORT

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Report No. : ICI/A/19-20/RIL/433A
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/433A
Report Date : 03.01.20
Date of Sampling : 27.12.19
Analysis Started on : 30.12.19
Analysis Completed on : 30.12.19

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	37.10

----- 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: Nitu Sarddar

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FORMAT NO: ICI/EM/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/434
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/434
Report Date : 03.01.20
Date of Sampling : 27.12.19
To : 28.12.19

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 : 20.0
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	81.37	27.81	16.94	39.75	BDL	BDL	BDL	0.2712	BDL	BDL	BDL
06:15 PM to 02:15 AM	96.62	37.85	21.93	45.17	BDL	BDL	BDL	0.3115	BDL	BDL	BDL
02:30 AM to 10:30 AM	84.59	32.91	18.94	41.56	BDL	BDL	BDL	0.3739	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: Nitu Sarddar

Debashis 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/434A	Sample Ref. No.	: RIL/434A
Issued To	: M/s. Ramco Industries Ltd.	Report Date	: 03.01.20
Address	: Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur.	Date of Sampling	: 27.12.19
Sample Description	: Ambient Air	Analysis Started on	: 30.12.19
Location	: NEAR MAIN GATE	Analysis Completed on	: 30.12.19
Sample Condition	: Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle		
Sampling Method	: UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. – 1)		
Test Method	: Using O ₃ Analyser/ Titrimetric Method		

Time	Concentration ($\mu\text{g}/\text{m}^3$)
	Ozone as O ₃
10:00 AM to 06:00 PM	36.70

----- 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: Nitu Sarddar

For, Indicative Consultant India

Debashis Haider
(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/A/19-20/RIL/435
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/435

Report Date : 03.01.20

Date of Sampling : 27.12.19

To

28.12.19

Analysis Started on : 30.12.19

Analysis Completed on : 02.01.20

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 : 20.0
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	83.87	29.67	11.96	38.84	BDL	BDL	BDL	0.2475	BDL	BDL	BDL
07:00 PM to 03:00 AM	92.67	36.25	16.94	43.36	BDL	BDL	BDL	0.2917	BDL	BDL	BDL
03:15 AM to 11:15 AM	80.63	32.01	13.95	37.94	BDL	BDL	BDL	0.3308	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: Nitu Sarddar

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/A/19-20/RIL/435A
Issued To : M/s. Ramco Industries Ltd.
Address : Dewanmaro, Ayma, P.O.-Hariatara,
P.S.-Kharagpur, Paschim Medinipur.

Sample Ref. No. : RIL/435A
Report Date : 03.01.20
Date of Sampling : 27.12.19
Analysis Started on : 30.12.19
Analysis Completed on : 30.12.19

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)
Test 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	38.7

----- 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

[Signature]

Checked By: Nitu Sarddar

For, Indicative Consultant India

[Signature]
Debashis Haider
(Sr. Chemist)
Signatory Authority



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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/19-20/973

Issued To : M/s. Ramco Industries Ltd

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

Sample Description : Ambient Noise

Sampling Method : By Digital Noise Meter

Test Method : IS 9989:1981 (RA 2014)

Location : Near Main Gate

Limit : Industrial Area Day Time : 75 dB (A)

: Commercial Area Day Time : 65 dB (A)

: Residential Area Day Time : 55 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor : 1.5 M

Distance of Source : 3.0 M

Starting Time : 10:00 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	50.5	0.1111111	11220.185	130011.732
2	52.1		16218.101	
3	50.6		11481.536	
4	51.8		15135.612	
5	51.1		12882.496	
6	49.2		8317.638	
7	50.8		12022.644	
8	52.0		15848.932	
9	51.8		15135.612	
10	50.7		11748.976	

* The equivalent Noise Level Leq. **51.14** dB(A)

Maximum dB(A): 52.1

Minimum dB (A): 49.2

..... End of Report

Checked By: Asis Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
(Manager Laboratory)
Signatory Authority

Parbati Golui
Manager Laboratory
Indicative Consultant India

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FORMAT NO.: ICI/FM/59

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/19-20/974

Issued To : M/s. Ramco Industries Ltd

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

Sample Description : Ambient Noise

Sampling Method : By Digital Noise Meter

Test Method : IS 9989:1981 (RA 2014)

Location : Near Main Gate

Limit : Industrial Area Night Time : 70 dB (A)

: Commercial Area Night Time : 55 dB (A)

: Residential Area Night Time : 45 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor : 1.5 M

Distance of Source : 3.0 M

Starting Time : 10:00 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	46.5	0.11111111	4466.836	43365.967
2	47.2		5248.075	
3	46.6		4570.882	
4	45.1		3235.937	
5	46.2		4168.694	
6	45.8		3801.894	
7	47.0		5011.872	
8	46.3		4265.795	
9	45.4		3467.369	
10	47.1		5128.614	

* The equivalent Noise Level Leq.

46.37

dB(A)

Maximum dB(A): 47.2

Minimum dB (A): 45.1

..... End of Report

Checked By: Asis Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
(Manager Laboratory)

Parbati Golui
Manager Laboratory
Signatory Authority Indicative Consultant India

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Kolkata Lab

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/19-20/975

Issued To : M/s. Ramco Industries Ltd

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

Sample Description : Ambient Noise

Sampling Method : By Digital Noise Meter

Test Method : IS 9989:1981 (RA 2014)

Location : Near Stock Yard

Limit : Industrial Area Day Time : 75 dB (A)

: Commercial Area Day Time : 65 dB (A)

: Residential Area Day Time : 55 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor : 1.5 M

Distance of Source : 3.0 M

Starting Time : 10:30 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	60.2	0.1111111	104712.855	1253266.674
2	61.7		147910.839	
3	60.3		107151.931	
4	59.9		97723.722	
5	60.1		102329.299	
6	62.5		177827.941	
7	60.8		120226.443	
8	61.2		131825.674	
9	61.8		151356.125	
10	60.5		112201.845	

* The equivalent Noise Level Leq.

60.98

dB(A)

Maximum dB(A): 62.5

Minimum dB (A): 59.9

..... End of Report

Checked By: Asis Patra

For, INDICATIVE CONSULTANT INDIA

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Signatory Authority

Parbati Golui

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/19-20/976
Issued To : M/s. Ramco Industries Ltd
Address : Dewanmara Ayma, P.O. - Hariatara,
Kharagpur, Dist. - Paschim Medinipur.
Sample Description : Ambient Noise
Sampling Method : By Digital Noise Meter
Test Method : IS 9989:1981 (RA 2014)
Location : Near Stock Yard
Limit : Industrial Area Night Time : 70 dB (A)
Commercial Area Night Time : 55 dB (A)
Residential Area Night Time : 45 dB (A)

Sample Ref. No. : SL/976
Report Date : 31.12.19
Date of Monitoring : 27.12.19

The Noise Pollution (Regulation & Control) Rules, 2000
Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor : 1.5 M
Distance of Source : 3.0 M
Starting Time : 10:25 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	54.7	0.11111111	29512.092	303022.938
2	56.1		40738.028	
3	55.8		38018.940	
4	53.7		23442.288	
5	54.5		28183.829	
6	53.9		24547.089	
7	54.8		30199.517	
8	55.1		32359.366	
9	53.6		22908.677	
10	55.2		33113.112	

* The equivalent Noise Level Leq. 54.81 dB(A)

Maximum dB(A): 56.1

Minimum dB (A): 53.6

..... End of Report

Checked By: Asis Patra

For, INDICATIVE CONSULTANT INDIA

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Signatory Authority

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Manager Laboratory
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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/19-20/977

Issued To : M/s. Ramco Industries Ltd

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

Sample Description : Ambient Noise

Sampling Method : By Digital Noise Meter

Test Method : IS 9989:1981 (RA 2014)

Location : Back Side of the Plant

Limit : Industrial Area Day Time : 75 dB (A)
Commercial Area Day Time : 65 dB (A)
Residential Area Day Time : 55 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

Height from the floor : 1.5 M

Distance of Source : 3.0 M

Starting Time : 11:00 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	62.5	0.1111111	177827.941	2144122.021
2	64.2		263026.799	
3	63.9		245470.892	
4	61.9		154881.662	
5	62.7		186208.714	
6	64.8		301995.172	
7	64.1		257039.578	
8	62.8		190546.072	
9	61.4		138038.426	
10	63.6		229086.765	

* The equivalent Noise Level Leq.

63.31

dB(A)

Maximum dB(A): 64.8

Minimum dB(A): 61.4

..... End of Report

Checked By: Asis Patra

For, INDICATIVE CONSULTANT INDIA

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Signatory Authority
Parbati Golui
Manager Laboratory
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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/19-20/978

Issued To : M/s. Ramco Industries Ltd

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

Sample Description : Ambient Noise

Sampling Method : By Digital Noise Meter

Test Method : IS 9989:1981 (RA 2014)

Location : Back Side of the Plant

Limit : Industrial Area Night Time : 70 dB (A)

: Commercial Area Night Time : 55 dB (A)

: Residential Area Night Time : 45 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Sample Ref. No. : SL/978

Report Date : 31.12.19

Date of Monitoring : 27.12.19

Monitoring Details :

Height from the floor : 1.5 M

Distance of Source : 3.0 M

Starting Time : 10:50 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	54.2	0.11111111	26302.680	312755.643
2	56.3		42657.952	
3	55.8		38018.940	
4	54.7		29512.092	
5	56.1		40738.028	
6	53.1		20417.379	
7	54.5		28183.829	
8	53.6		22908.677	
9	55.2		33113.112	
10	54.9		30902.954	

* The equivalent Noise Level Leq. 54.95 dB(A)

Maximum dB(A): 56.3

Minimum dB (A): 53.1

..... End of Report

Checked By: Asis Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
(Manager Laboratory)
Signatory Authority

Parbati Golui
Manager Laboratory
Indicative Consultant India

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/19-20/979
Issued To : M/s. Ramco Industries Ltd
Address : Dewanmara Ayma, P.O. - Hariatara,
Kharagpur, Dist. - Paschim Medinipur.

Sample Ref. No. : SL/979
Report Date : 31.12.19
Date of Monitoring : 27.12.19

Sample Description : Ambient Noise
Sampling Method : By Digital Noise Meter
Test Method : IS 9989:1981 (RA 2014)
Location : Near Scrap Yard
Limit : Industrial Area Day Time : 75 dB (A)
Commercial Area Day Time : 65 dB (A)
Residential Area Day Time : 55 dB (A)
The Noise Pollution (Regulation & Control) Rules, 2000
Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

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 ⁴ (Li/10)	Sum of ft X 10 ⁴ (Li/10)
1	65.2	0.1111111	331131.121	2607108.896
2	63.8		239883.292	
3	62.3		169824.365	
4	64.6		288403.150	
5	63.7		234422.882	
6	64.5		281838.293	
7	65.1		323593.657	
8	63.9		245470.892	
9	62.8		190546.072	
10	64.8		301995.172	

* The equivalent Noise Level Leq. 64.16 dB(A)

Maximum dB(A): 65.2

Minimum dB (A): 62.3

..... End of Report
Checked By: Asis Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
(Manager Laboratory) Manager Laboratory
Signatory Authority Indicative Consultant India

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TEST REPORT

Sample is drawn by M/s. Indicative Consultant India

Report No. : ICI/SL/19-20/980
Issued To : M/s. Ramco Industries Ltd
Address : Dewanmara Ayma, P.O. - Hariatara,
Kharagpur, Dist. - Paschim Medinipur.

Sample Ref. No. : SL/980
Report Date : 31.12.19
Date of Monitoring : 27.12.19

Sample Description : Ambient Noise
Sampling Method : By Digital Noise Meter
Test Method : IS 9989:1981 (RA 2014)
Location : Near Scrap Yard
Limit : Industrial Area Night Time : 70 dB (A)
Commercial Area Night Time : 55 dB (A)
Residential Area Night Time : 45 dB (A)

The Noise Pollution (Regulation & Control) Rules, 2000

Gazette of India, vide S.O. 50 (E) dated 11.01.2010 under the EPA Act, 1986

Monitoring Details :

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

Starting Time : 11:15 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	50.5	0.1111111	11220.185	140791.324
2	52.6		18197.009	
3	51.7		14791.084	
4	50.8		12022.644	
5	51.9		15488.166	
6	51.2		13182.567	
7	50.7		11748.976	
8	52.3		16982.437	
9	51.8		15135.612	
10	50.8		12022.644	

* The equivalent Noise Level Leq. 51.49 dB(A)

Maximum dB(A): 52.6

Minimum dB (A): 50.5

End of Report

Checked By: Asis Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
(Manager Laboratory)
Signatory Authority

Parbati Golui
Manager Laboratory
Indicative Consultant India

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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/19-20/1247

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/1247

Report Date : 07.01.20

Date of Sampling : 27.12.19

Analysis Started on : 28.12.19

Analysis Completed on : 06.01.20

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 19°C)	-	6.52	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
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	85.0	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	67.8	200 (Max)	600 (Max)	IS:3025(Part-16):1984: RA 2017 APHA 23 rd Edition 2540 C
	Ca Hardness as CaCO ₃	mg/L	36.5	-	-	IS:3025(Part-21):2009: RA 2019 APHA 23 rd Edition 2340 C
10.	Mg Hardness as CaCO ₃	mg/L	31.3	-	-	APHA 23 rd Edition 2340 C
11.	Calcium as Ca	mg/L	14.6	75 (Max)	200 (Max)	APHA 23 rd Edition 2340 C
12.	Magnesium as Mg	mg/L	7.6	30 (Max)	100 (Max)	IS:3025(Part-40):1991: RA 2014 APHA 23 rd Edition 3500Ca B
13.	Chloride as Cl	mg/L	13.1	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	47.3	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	47.3	-	-	APHA 23 rd Edition 2320B





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

Report No : ICI/W/19-20/1247

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	0.12	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	2.8	200 (Max)	400 (Max)	IS:3025(Part-24):1986: RA 2019 APHA 23 rd Edition 4500 SO ₄ 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	19.6	-	-	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

Debasmita Haldar
(Sr. Chemist)
Signatory Authority



Note:

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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/19-20/1248
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/1248
Report Date : 07.01.20
Date of Sampling : 27.12.19
Analysis Started on : 28.12.19
Analysis Completed on : 06.01.20
Time of Sampling : 01:30 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 19°C)	-	6.53	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	112.0	-	-	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	82.0	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	57.4	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	36.5	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness as CaCO ₃	mg/L	20.9	-	-	APHA 23 rd Edition 2340 C
11.	Calcium as Ca	mg/L	14.6	75 (Max)	200 (Max)	IS:3025(Part-40):1991: RA 2014 APHA 23 rd Edition 3500Ca B
12.	Magnesium as Mg	mg/L	5.1	30 (Max)	100 (Max)	IS:3025(Part-46):1994: RA 2019 APHA 23 rd Edition 3500Mg B
13.	Chloride as Cl	mg/L	13.1	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	52.5	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	46.2	-	-	APHA 23 rd Edition 2320B





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Report No : ICI/W/19-20/1248

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	0.10	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	2.8	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	15.6	-	-	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 -----

[Signature]

Checked By: Nitu Sarddar

For, Indicative Consultant India

Debashis Halder
(Sr. Chemist)
Signatory Authority



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