



SHIVA TEST HOUSE

(Serving since 1988)



TC-10582

RECOGNISED AS ENVIRONMENTAL LABORATORY BY MoEFCC, GOVT. OF INDIA, UNDER ENVIRONMENT (PROTECTION) ACT 1986, DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

TEST REPORT

Ref. No. STH/TR/23-24/10082	Dt : 21.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152		
[b] Details of Sample	Borewell Water Sample		
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24		
[d] Sampling Location	Collected from Borewell Near Godown		
[e] Method of Sampling	IS: 3025, APHA		
[f] Sampling Environmental Condition	Temp (°C)	26	Humidity (%) 58
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)		
[h] Sample Quantity	2 Liters		
[i] Sample Code	BW-10082		
[j] Sample Condition on Receipt	Fit for analysis		
[k] Items required to be tested	As per contract.		
[l] Whether any specific Method of Test has been suggested by the customer	No		
[m] Date of receiving the sample in Laboratory	06.03.24		
[n] Analysis Start Date / Analysis Completion Date	06.03.24 / 11.03.24		

S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results
				Limit (mg/l.) Acceptable	Permissible Limit in the absence of alternative source	
1	Colour	Hazen	IS 3025 (Part-4)	5	15	< 5.00
2	Odour	-----	IS 3025 (Part-5)	Agreeable	Agreeable	Agreeable
3	Taste	-----	IS 3025 (Part-7)	Agreeable	Agreeable	Agreeable
4	pH at 25°C	-----	IS 3025 (Part-11)	6.5	8.5	7.45
5	Turbidity on NTU	NTU	IS 3025 (Part-10)	1.0	5.0	0.84
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-16)	500.0	2000.0	248.0
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	140.0
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	32.8
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	14.1
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.19
11	Residual Free Chlorine	mg/l.	IS 3025 (Part-26)	0.2	1	<0.1
12	Total Alkalinity as CaCO ₃	mg/l.	IS 3025 (Part-23)	200.0	600.00	212.0
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.00	23.0
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.00	24.5
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	2.11
16	Fluoride as F	mg/l.	APHA 4500 (F-D)	1.0	1.5	0.30

SHIBESHWAR PRASAD
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SHIBESHWAR PRASAD
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
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Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

-- END OF TEST REPORT --

1. This report applies only to sample tested as above.
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Website: www.shivatest.com; www.shivatesthouse.com





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TEST REPORT

Ref. No. <i>STH/TR/23-24/10082(Mcb)</i> Dt : <i>21.03.2024</i>		Your Work Order No. <i>MANUAL/RIL/BIH</i>		Dt: <i>11.06.2023</i>	
[a] Name and address of the Customer			RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152		
[b] Details of Sample			<i>Borewell Water Sample</i>		
[c] Sample Collected by			<i>By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24</i>		
[d] Sampling Location			<i>Collected from Borewell Near Godown</i>		
[e] Method of Sampling			IS 1622		
[f] Sampling Environmental Condition			Temp (⁰ c)	26	Humidity (%) 58
[g] No. & Type of Container			One Sterilized Glass Bottle		
[h] Sample Quantity			250 ml		
[i] Sample Code			<i>BW-10082</i>		
[j] Sample Condition on Receipt			Fit for analysis		
[k] Items required to be tested			As per contract		
[l] Whether any specific Method of Test has been suggested by the customer			No		
[m] Date of receiving the sample in Laboratory			<i>06.03.24</i>		
[n] Analysis Start Date / Analysis Completion Date			<i>06.03.24 / 07.03.24</i>		
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012	Results
1	Total Coliform	/ 100 ml	IS 1622:1981	Shall not be detectable in 100 ml.	Not Detected / 100 ml
2	E coli	/ 100 ml	IS 1622:1981	Shall not be detectable in 100 ml.	Not Detected / 100 ml



Vishal Sharma
 Authorized Signatory
 Mr. Vishal Sharma
 Deputy Quality Manager (DQM)

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TEST REPORT

Ref. No. <i>STH/TR/23-24/10083</i>		Dt : <i>21.03.2024</i>		Your Work Order No. <i>MANUAL/RIL/BIH</i>		Dt: <i>11.06.2023</i>	
[a] Name and address of the Customer				RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample				Drinking Water Sample			
[c] Sample Collected by				By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24			
[d] Sampling Location				Collected from Canteen Aquaguard			
[e] Method of Sampling				IS: 3025, APHA			
[f] Sampling Environmental Condition				Temp (°C)	26	Humidity (%)	58
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Liters			
[i] Sample Code				DW-10083			
[j] Sample Condition on Receipt				Fit for analysis			
[k] Items required to be tested				As per contract.			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				06.03.24			
[n] Analysis Start Date / Analysis Completion Date				06.03.24 / 11.03.24			
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results	
				Limit (mg/l.) Acceptable	Permissible Limit in the absence of alternative source		
1	Colour	Hazen	IS 3025 (Part-4)	5	15	< 5.00	
2	Odour	-----	IS 3025 (Part-5)	Agreeable	Agreeable	Agreeable	
3	Taste	-----	IS 3025 (Part-7))	Agreeable	Agreeable	Agreeable	
4	pH at 25°C	-----	IS 3025 (Part-11)	6.5	8.5	7.06	
5	Turbidity on NTU	NTU	IS 3025 (Part-10)	1.0	5.0	0.58	
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-16)	500.0	2000.0	54.0	
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	26.0	
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	8.0	
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	1.46	
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.06	
11	Residual Free Chlorine	mg/l.	IS 3025 (Part-26)	0.2	1	<0.1	
12	Total Alkalinity as CaCO ₃	mg/l.	IS 3025 (Part-23)	200.0	600.00	18.0	
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.00	9.0	
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.00	3.86	
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	0.59	
16	Fluoride as F	mg/l.	APHA 4500 (F-D)	1.0	1.5	0.17	

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. <i>STH/TR/23-24/10083(Mcb)</i> Dt : <i>21.03.2024</i>		Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt: <i>11.06.2023</i>			
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample		<i>Drinking Water Sample</i>			
[c] Sample Collected by		<i>By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24</i>			
[d] Sampling Location		<i>Collected from Canteen Aquaguard</i>			
[e] Method of Sampling		IS 1622			
[f] Sampling Environmental Condition		Temp (⁰ c)	26 Humidity (%) 58		
[g] No. & Type of Container		One Sterilized Glass Bottle			
[h] Sample Quantity		250 ml			
[i] Sample Code		<i>DW-10083</i>			
[j] Sample Condition on Receipt		Fit for analysis			
[k] Items required to be tested		As per contract			
[l] Whether any specific Method of Test has been suggested by the customer		No			
[m] Date of receiving the sample in Laboratory		<i>06.03.24</i>			
[n] Analysis Start Date / Analysis Completion Date		<i>06.03.24 / 07.03.24</i>			
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012	Results
1	Total Coliform	/ 100 ml	IS 15185: 2016*	Shall not be detectable in 100 ml.	Not Detected / 100 ml
2	E. coli	/ 100 ml	IS 15185: 2016*	Shall not be detectable in 100 ml.	Not Detected / 100 ml
N.B.*	(Water Quality – Detection and Enumeration of Escherichia coli and Coliform Bacteria – Membrane Filtration Method for Water with Low Bacterial Background Flora				



Vishal Sharma

Authorized Signatory

Mr. Vishal Sharma

Deputy Quality Manager (DQM)

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TEST REPORT

Ref. No. STH/TR/23-24/10084	Dt : 21.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023		
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152				
[b] Details of Sample	Effluent Sample				
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24				
[d] Sampling Location	Collected from Final Discharge Point				
[e] Method of Sampling	IS 3025, APHA				
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 58		
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)				
[h] Sample Quantity	2 Litres				
[i] Sample Code	E-10084				
[j] Sample Condition on Receipt	Fit for analysis				
[k] Items required to be tested	As per contract.				
[l] Whether any specific Method of Test has been suggested by the customer	No				
[m] Date of receiving the sample in Laboratory	06.03.24				
[n] Analysis Start Date / Analysis Completion Date	06.03.24 / 11.03.24				
S. N.	Parameters	Unit	Method of Test	Limit as per E (P) Rules Schedule VI	Result
1	pH at 25°C	--	IS 3025 (Part-11)	5.5 to 9.0	7.11
2	Suspended Solids	mg/l.	IS 3025(Part-17)	100.0	55.0
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	10.0	1.3
4	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	30.0	20.0
5	C.O.D.	mg/l.	APHA 5220 B	250.0	136.0
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	5.0	1.2
7	Fluoride as F	mg/l.	APHA 4500 (F-D)	5.0	0.59
8	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	50.0	12.9
9	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	100.0	19.6

SHIBESHWAR PRASAD

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10085-10089	Dt : 21.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023		
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample		Monitoring of Respirable Dust in Work Zone Area			
[c] Sample Collected by		By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24			
[d] Sampling Location		Premises of Ramco Bihiya			
[e] Method of Sampling		IS 5182 (Part - 14)			
[f] Sampling Environmental Condition		Temp. (°C)	26 Humidity (%) 58		
[g] Details of Sample Container (No. & Type of Container)		Filter Paper ; Glass Impinger			
[h] Sample Quantity		05			
[i] Items required to be tested		As per contract			
[j] Whether any specific Method of Test has been suggested by the customer		No			
[k] Date of receiving the sample in Laboratory		06.03.24			
[l] Analysis Start Date / Analysis Completion Date		06.03.24 / 11.03.24			
S. N.	Sampling Point	Sample Code	Limit as NAAQS Nov. '2009 ($\mu\text{g}/\text{M}^3$)	Unit	Concentration of Respirable Dust (PM_{10}) [08 hrs.] ($\mu\text{g}/\text{M}^3$)
1	Fibre Mill Area	SC_FE-10085	100.0	$\mu\text{g}/\text{M}^3$	87.14
2	Hats check Mahine	SC_FE-10086		$\mu\text{g}/\text{M}^3$	78.42
3	Stripping Machine	SC_FE-10087		$\mu\text{g}/\text{M}^3$	81.36
4	Pulverizer Area	SC_FE-10088		$\mu\text{g}/\text{M}^3$	73.65
5	Near DG Room Area	SC_FE-10089		$\mu\text{g}/\text{M}^3$	76.46

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Dr. Shibeshwar Prasad
Technical Manager

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Date: 2024.03.21 14:40:13 +05'30'
Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10090-10093	Dt: 21.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023					
[a] Name and address of the Customer		Sr. General Manager (Works) RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152						
[b] Details of Sample		Monitoring of Ambient Air Quality						
[c] Sample Collected by		By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24						
[d] Sampling Location		Premises of Ramco Bihiya						
[e] Method of Sampling		IS 5182 (Part - 14)						
[f] Sampling Environmental Condition		Temp. (°C)	26 Humidity (%) 58					
[g] Details of Sample Container (No. & Type of Container)		Filter Paper; Glass Impinger						
[h] Instrument ID		STH/Equip/97, 73, 83, 70, 84, 71, 85, 72						
[i] Sample Quantity		30 ml x 24 (for each NO ₂ , SO ₂)						
[j] Sample Condition on Receipt		Fit for Analysis						
[k] Items required to be tested		As per contract						
[l] Whether any specific Method of Test has been suggested by the customer		No						
[m] Date of receiving the sample in Laboratory		06.03.24						
[n] Analysis Start Date / Analysis Completion Date		06.03.24 / 11.03.24						
Parameters	Unit	Method of Test	Limit as NAAQS Nov.'2009	Sampling Station / Results				
				Near Main Gate (SC-A-10090)	Near Office (SC-A-10091)	Near Stripping Area (SC-A-10092)	Near Laboratory (SC-A-10093)	
1. Particulate Matter (PM ₁₀)	µg / m ³	IS 5182 (Part-23)	100	73.8 64.8 70.9	68.8 68.3 65.8	73.8 65.8 69.0	75.1 62.7 64.6	
2. Particulate Matter (PM _{2.5})	µg / m ³	USEPA	60	40.1 33.8 42.6	38.8 33.8 37.6	44.3 35.4 41.8	37.5 31.3 38.8	
3. Sulphur Dioxide as SO ₂	µg / m ³	IS 5182 (Part-2)	80	14.8 13.1 9.9 8.9 11.9 17.8	15.8 14.1 10.9 9.9 11.9 14.8	15.1 13.4 10.1 11.1 14.1 16.1	17.6 15.0 11.7 12.7 13.7 18.6	
4. Nitrogen Dioxide as NO ₂	µg / m ³	IS 5182 (Part-6)	80	37.6 35.7 26.2 32.2 36.3 39.6	45.7 40.5 28.9 26.2 38.9 43.0	43.1 37.7 24.6 28.7 38.3 39.7	39.8 38.6 23.2 26.5 35.8 39.2	
Average Value								
PM ₁₀					69.8	67.6	69.5	67.5
PM _{2.5}					38.8	36.7	40.5	35.8
SO ₂					12.7	12.9	13.3	14.9
NO ₂					34.6	37.2	35.4	33.9

SHIBESHWAR PRASAD
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Date: 2024.03.21 14:37:21 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



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Date: 2024.03.21 14:40:26 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10090-10093(A)	Dt : 21.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023				
[a] Name and address of the Customer	Sr. General Manager (Works) RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152						
[b] Details of Sample	Monitoring of Ambient Air Quality						
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24						
[d] Sampling Location	Premises of Ramco Bihiya						
[e] Method of Sampling	IS 5182 (Part - 14)						
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 58				
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger						
[h] Instrument ID	STH/Equip/97, 73, 83, 70, 84, 71, 85, 72						
[i] Sample Quantity	30 ml x 24 (for each NO ₂ , SO ₂)						
[j] Sample Condition on Receipt	Fit for Analysis						
[k] Items required to be tested	As per contract						
[l] Whether any specific Method of Test has been suggested by the customer	No						
[m] Date of receiving the sample in Laboratory	06.03.24						
[n] Analysis Start Date / Analysis Completion Date	06.03.24 / 11.03.24						
Parameters	Method of Test	Unit	Limit as per EPA Notification	Sampling Station / Results			
				Near Main Gate (SC-A-10090)	Near Office (SC-A-10091)	Near Stripping Area (SC-A-10092)	Near Laboratory (SC-A-10093)
1. Lead (Pb)	IS 5182 (Part-22)	µg / m ³	1	0.06	0.06	0.04	0.08
2. Ammonia as NH ₃	IS 5182 (Part-5)	µg / m ³	400	13.1	13.2	13.6	14.0
3. Ozone (O ₃)	IS 5182 (Part-9)	µg / m ³	180	41.7	42.9	39.0	44.2



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Date: 2024.03.21 14:37:32 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2024.03.21 14:40:40 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10090-10093(B)	Dt : 21.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023				
[a] Name and address of the Customer	Sr. General Manager (Works) RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152						
[b] Details of Sample	Monitoring of Ambient Air Quality						
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24						
[d] Sampling Location	Premises of Ramco Bihiya						
[e] Method of Sampling	IS 5182 (Part - 14)						
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 58				
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger						
[h] Instrument ID	STH/Equip/97, 73, 83, 70, 84, 71, 85, 72						
[i] Sample Quantity	30 ml x 24 (for each NO₂, SO₂)						
[j] Sample Condition on Receipt	Fit for Analysis						
[k] Items required to be tested	As per contract						
[l] Whether any specific Method of Test has been suggested by the customer	No						
[m] Date of receiving the sample in Laboratory	06.03.24						
[n] Analysis Start Date / Analysis Completion Date	06.03.24 / 11.03.24						
Parameters	Method of Test	Unit	Limit as per EPA Notification	Sampling Station / Results			
				Near Main Gate (SC-A-10090)	Near Office (SC-A-10091)	Near Stripping Area (SC-A-10092)	Near Laboratory (SC-A-10093)
1. Carbon Monoxide (CO)	IS 5182 (Part-10)	mg / m ³	4	0.45	0.28	0.57	0.47
2. Benzene (C ₆ H ₆)	IS 5182 (Part-11)	µg / m ³	5	0.15	0.16	0.17	0.18
3. Benzo (a) Pyrene, (Particulate Phase only)	IS 5182 (Part-12)	ng / m ³	1.0	0.16	0.17	0.18	0.19
4. Arsenic (As)	AAS Method	ng / m ³	6	0.16	0.11	0.19	0.12
5. Nickel as Ni	AAS Method	ng / m ³	20	<20.0	<20.0	<20.0	<20.0

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad

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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10094		Dt: 21.03.2024		Your Work Order No. MANUAL/RIL/BIH		Dt: 11.06.2023	
[a] Name and address of the Customer				RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24			
[d] Sampling Location				Premises of Ramco Bihiya			
[e] Method of Sampling				IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	58
[g] Details of Sample Container (No. & Type of Container)				Thimble & Glass Impinger			
[h] Instrument ID				STH/Equip/52			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-10094			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the customer				No			
[n] Date of receiving the sample in Laboratory				06.03.24			
[o] Analysis Start Date / Analysis Completion Date				06.03.24 / 11.03.24			
Parameters		Unit	Method of Test		Results		
1. Stack Connected to					DG Set 1010 KVA		
2. Stack No.					V		
3. Height of Stack (as reported)		9.0 m.					
4. Dia. of Stack at Top (as reported)		0.15 m.					
5. Draft		Natural					
6. Material of Construction		M.S.					
7. Ambient Temperature		26.0					
8. Flue Gas Temperature		136.0					
9. Velocity		m/sec.	IS 11255 (Part-3)		7.6		
10. Volumetric Flow Rate		NM³/hr.			349.9		
11. Sampling Point		Meter			3.5 m.		
					Limit as per EPA Notification		Concentration
12. Particulate Matter (P.M.)		mg / NM³	IS 11255 (Part-1)		75.00 mg / NM³		27.4
13. Sulphur Dioxide (SO₂)		mg / NM³	IS 11255 (Part-2)		Not Specified		12.3
14. Oxides of Nitrogen (NOx)		mg / NM³	IS 11255 (Part-7)		710.00 mg / NM³		154.2

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10094(A)		Dt: 21.03.2024		Your Work Order No. MANUAI/RIL/BIH		Dt: 11.06.2023	
[a] Name and address of the Customer				RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24			
[d] Sampling Location				Premises of Ramco Bihiya			
[e] Method of Sampling				IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition				Temp. (°C)	26	Humidity (%)	58
[g] Details of Sample Container (No. & Type of Container)				Thimble & Glass Impinger			
[h] Instrument ID				STH/Equip/52			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-10094			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the customer				No			
[n] Date of receiving the sample in Laboratory				06.03.24			
[o] Analysis Start Date / Analysis Completion Date				06.03.24 / 11.03.24			
Parameters		Unit	Method of Test		Results		
1. Stack Connected to		Meter	IS 11255 (Part-3)		DG Set 1010 KVA		
2. Stack No.					V		
3. Height of Stack (as reported)					9.0 m.		
4. Dia. of Stack at Top (as reported)					0.15 m.		
5. Draft					Natural		
6. Material of Construction					MS		
7. Ambient Temperature					26.0		
8. Flue Gas Temperature					136.0		
9. Velocity		m/sec.			7.6		
10. Volumetric Flow Rate		NM³/hr.			349.9		
11. Sampling Point		Meter			3.5 m.		
					Limit as per EPA Notification		Concentration
12. NMHC (as C) (at 15% O₂)		mg / NM³	CPCB		100.00 mg / NM³		25.3
13. Carbon Monoxide as CO (at 15% O₂)		mg / NM³	IS 13270 – 2003		150.00 mg / NM³		25.0

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10095	Dt: 21.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 58	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Instrument ID	STH/Equip/52			
[i] Sample Quantity	60 ml			
[j] Sample Code	ST-10095			
[k] Sample Condition on Receipt	Fit for Analysis			
[l] Items required to be tested	As per contract			
[m] Whether any specific Method of Test has been suggested by the customer	No			
[n] Date of receiving the sample in Laboratory	06.03.24			
[o] Analysis Start Date / Analysis Completion Date	06.03.24 / 11.03.24			
Parameters	Unit	Method of Test	Results	
1. Stack Connected to			DG Set 750 KVA	
2. Stack No.			1	
3. Height of Stack (as reported)	Meter		12.9	
4. Dia. of Stack at Top (as reported)	Meter		0.2	
5. Draft			Natural	
6. Material of Construction	---		M.S.	
7. Ambient Temperature	°C		26.0	
8. Flue Gas Temperature	°C		132.0	
9. Velocity	m/sec.	IS 11255 (Part-3)	7.6	
10. Volumetric Flow Rate	NM ³ /hr.		635.7	
11. Sampling Point	Meter		3.5 M	
			Limit as per EPA Notification	Concentration
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	75.0	29.1
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified	11.3
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	710.0	146.6

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10095(A)	Dr: 21.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dr: 11.06.2023	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 58	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Instrument ID	STH/Equip/52			
[i] Sample Quantity	60 ml			
[j] Sample Code	ST-10095			
[k] Sample Condition on Receipt	Fit for Analysis			
[l] Items required to be tested	As per contract			
[m] Whether any specific Method of Test has been suggested by the customer	No			
[n] Date of receiving the sample in Laboratory	06.03.24			
[o] Analysis Start Date / Analysis Completion Date	06.03.24 / 11.03.24			
Parameters	Unit	Method of Test	Results	
1. Stack Connected to			DG Set 750 KVA	
2. Stack No.			I	
3. Height of Stack (as reported)	Meter		12.9	
4. Dia. of Stack at Top (as reported)	Meter		0.2	
5. Draft			Natural	
6. Material of Construction	---		M.S.	
7. Ambient Temperature	°C		26.0	
8. Flue Gas Temperature	°C		132.0	
9. Velocity	m/sec.	IS 11255 (Part-3)	7.6	
10. Volumetric Flow Rate	NM ³ /hr.		635.7	
11. Sampling Point	Meter		3.5 M	
			Limit as per EPA Notification	Concentration
12. NMHC (as C) (at 15% O ₂)	mg / NM ³	CPCB	100.00 mg / NM ³	26.4
13. Carbon Monoxide as CO (at 15% O ₂)	mg / NM ³	IS 13270 – 2003	150.00 mg / NM ³	24.0

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Date: 2024.03.21
14:38:30 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager

Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10096	Dt: 21.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	26 Humidity (%) 58
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/52	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-10096	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		06.03.24	
[o] Analysis Start Date / Analysis Completion Date		06.03.24 / 11.03.24	
Parameters		Unit	Method of Test
1. Stack Connected to			Pulveriser
2. Stack No.			III
3. Height of Stack (as reported)	Meter		14.2 m.
4. Dia. of Stack at Top (as reported)	Meter		0.2 m.
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		26.0
8. Flue Gas Temperature	°C		56.0
9. Velocity	m/sec.	IS 11255 (Part-3)	6.8
10. Volumetric Flow Rate	NM ³ /hr.		699.0
11. Sampling Point	Meter		5.0 M.
			Limit as per EPA Notification
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	2.0
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	---
			Concentration
			1.8
			Not detectable
			Not detectable

SHIBESHWAR PRASAD

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10097	Dt: 21.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 58	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Instrument ID	STH/Equip/52			
[i] Sample Quantity	60 ml			
[j] Sample Code	ST-10097			
[k] Sample Condition on Receipt	Fit for Analysis			
[l] Items required to be tested	As per contract			
[m] Whether any specific Method of Test has been suggested by the customer	No			
[n] Date of receiving the sample in Laboratory	06.03.24			
[o] Analysis Start Date / Analysis Completion Date	06.03.24 / 11.03.24			
Parameters	Unit	Method of Test	Results	
1. Stack Connected to			Cement / Fly Ash Circuit	
2. Stack No.			IV	
3. Height of Stack (as reported)	Meter		26.2	
4. Dia. of Stack at Top (as reported)	Meter		0.45	
5. Draft			Natural	
6. Material of Construction	---		M.S.	
7. Ambient Temperature	°C		26.0	
8. Flue Gas Temperature	°C		36.0	
9. Velocity	m/sec.	IS 11255 (Part-3)	6.6	
10. Volumetric Flow Rate	NM ³ /hr.		3644.1	
11. Sampling Point	Meter		10.0 M.	
			Limit as per EPA Notification	Concentration
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	100	12.1
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---	Not detectable
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	---	Not detectable

SHIBESHW
AR PRASAD

Digitally signed by
SHIBESHWAR PRASAD
Date: 2024.03.21
14:38:51 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad

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Shreyasee Prasad
Date: 2024.03.21
14:42:54 +05'30'
Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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SHIVA TEST HOUSE

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TC-10582

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TEST REPORT

Ref. No. STH/TR/23-24/10098	Dt: 21.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Vinay Kumar (Lab Representative) of Shiva Test House on 05.03.24	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	26 Humidity (%) 58
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/52	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-10098	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		06.03.24	
[o] Analysis Start Date / Analysis Completion Date		06.03.24 / 11.03.24	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			Fibre Dust Collector
2. Stack No.			II
3. Height of Stack (as reported)	Meter		26.2
4. Dia. of Stack at Top (as reported)	Meter		0.53
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		26.0
8. Flue Gas Temperature	°C		32.0
9. Velocity	m/sec.	IS 11255 (Part-3)	6.5
10. Volumetric Flow Rate	NM ³ /hr.		5033.0
11. Sampling Point	Meter		5.0 m.
			Limit as per EPA Notification
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	2.0
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	---
			Concentration
			1.7
			Not Detectable
			Not Detectable

SHIBESHWAR PRASAD

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Date: 2024.03.21
14:39:03 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/10099	Dt: 21.03.2024	Your Work Order No. MANUAL/RII/BIH	Dt: 11.06.2023
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152		
[b] Sampling Environmental Condition	Temp. (°C)	26	Humidity (%) 58
[c] Details of Sample	Monitoring of Ambient Noise Level at Ramco Bihiya		
[d] Monitored by	By Vinay Kumar (Lab Representative) of Shiva Test House on 05/06.03.24		
[e] Whether any specific Method of Test has been suggested by the party	No		
Sampling Location	Unit	Time Weighted Average (TWA) of Noise Level	
1. Near Main Gate	dB(A)	67.1	
2. Near Office	dB(A)	54.6	
3. Near Stripping Area	dB(A)	66.8	
4. Near Fibre Mill	dB(A)	61.0	
5. Near DG Room	dB(A)	70.5	
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceeds the ambient noise standards by 10 dB(A) or more against any area/zone.		

SHIBESHWAR PRASAD

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Dr. Shibeshwar Prasad
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Dr. (Mrs.) Shreyasee Prasad
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TEST REPORT

Ref. No. STH/TR/23-24/9535	Dt: 05.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 19.02.24			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	22	Humidity (%)	67
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Instrument ID	STH/Equip/52			
[i] Sample Quantity	60 ml			
[j] Sample Code	ST-9535			
[k] Sample Condition on Receipt	Fit for Analysis			
[l] Items required to be tested	As per contract			
[m] Whether any specific Method of Test has been suggested by the customer	No			
[n] Date of receiving the sample in Laboratory	20.02.24			
[o] Analysis Start Date / Analysis Completion Date	20.02.24 / 25.02.24			
Parameters	Unit	Method of Test	Results	
1. Stack Connected to			DG Set 750 KVA	
2. Stack No.			1	
3. Height of Stack (as reported)	Meter		12.9	
4. Dia. of Stack at Top (as reported)	Meter		0.2	
5. Draft			Natural	
6. Material of Construction			M.S.	
7. Ambient Temperature	°C		25.0	
8. Flue Gas Temperature	°C		134.0	
9. Velocity	m/sec.	IS 11255 (Part-3)	7.8	
10. Volumetric Flow Rate	NM ³ /hr.		645.1	
11. Sampling Point	Meter		3.5 M	
			Limit as per EPA Notification	Concentration
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	75.0	31.2
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified	14.8
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	710.0	147.4

Shibeswar
Prasad

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Verified by :

Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9535(A)		Dt: 05.03.2024		Your Work Order No. MANUAL/RIL/BIH		Dt: 11.06.2023	
[a] Name and address of the Customer				RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur – 802 152			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				By Vinay Kumar (Lab Representative) of Shiva Test House on 19.02.24			
[d] Sampling Location				Premises of Ramco Bihya			
[e] Method of Sampling				IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition				Temp. (°C)	22	Humidity (%)	67
[g] Details of Sample Container (No. & Type of Container)				Thimble & Glass Impinger			
[h] Instrument ID				STH/Equip/52			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-9535			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the customer				No			
[n] Date of receiving the sample in Laboratory				20.02.24			
[o] Analysis Start Date / Analysis Completion Date				20.02.24 / 25.02.24			
Parameters		Unit	Method of Test		Results		
1. Stack Connected to					DG Set 750 KVA		
2. Stack No.					I		
3. Height of Stack (as reported)		Meter			12.9		
4. Dia. of Stack at Top (as reported)		Meter			0.2		
5. Draft					Natural		
6. Material of Construction		---			M.S.		
7. Ambient Temperature		°C			25.0		
8. Flue Gas Temperature		°C			134.0		
9. Velocity		m/sec.	IS 11255 (Part-3)		7.8		
10. Volumetric Flow Rate		NM ³ /hr.			645.1		
11. Sampling Point		Meter			3.5 M		
					Limit as per EPA Notification	Concentration	
12. NMHC (as C) (at 15% O ₂)		mg / NM ³	CPCB		100.00 mg / NM ³	24.8	
13. Carbon Monoxide as CO (at 15% O ₂)		mg / NM ³	IS 13270 – 2003		150.00 mg / NM ³	24.0	

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Prasad

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Verified by :

Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad

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Authorized Signatory

Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9536

Dt: 05.03.2024

Your Work Order No. MANUAL/RIL/BIH

Dt: 11.06.2023

[a] Name and address of the Customer

RAMCO INDUSTRIES LTD.
Plot No. A 1, BIADA Industrial Area
Bihiya
Bhojpur – 802 152

[b] Details of Sample

Monitoring of Stack Emission

[c] Sample Collected by

By Vinay Kumar (Lab Representative) of Shiva Test House
on 19.02.24

[d] Sampling Location

Premises of Ramco Bihiya

[e] Method of Sampling

IS 11255 (Part-1,2,3 & 7)

[f] Sampling Environmental Condition

Temp. (°C) 22 Humidity (%) 67

[g] Details of Sample Container (No. & Type of Container)

Thimble & Glass Impinger

[h] Instrument ID

STH/Equip/52

[i] Sample Quantity

60 ml

[j] Sample Code

ST-9536

[k] Sample Condition on Receipt

Fit for Analysis

[l] Items required to be tested

As per contract

[m] Whether any specific Method of Test has been suggested by the customer

No

[n] Date of receiving the sample in Laboratory

20.02.24

[o] Analysis Start Date / Analysis Completion Date

20.02.24 / 25.02.24

Parameters	Unit	Method of Test	Results	
1. Stack Connected to			Fibre Dust Collector	
2. Stack No.			II	
3. Height of Stack (as reported)	Meter		26.2	
4. Dia. of Stack at Top (as reported)	Meter		0.53	
5. Draft			Natural	
6. Material of Construction	---		M.S.	
7. Ambient Temperature	°C		25.0	
8. Flue Gas Temperature	°C		28.0	
9. Velocity	m/sec.	IS 11255 (Part-3)	6.3	
10. Volumetric Flow Rate	NM ³ /hr.		4955.0	
11. Sampling Point	Meter		5.0 m.	
			Limit as per EPA Notification	Concentration
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	2.0	1.4
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---	Not Detectable
14. Oxides of Nitrogen (NO _x)	mg / NM ³	IS 11255 (Part-7)	---	Not Detectable

Shibeswar Prasad

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Shibeswar Prasad
Date: 2024.03.05
14:04:40 +05'30'

Verified by :

Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory

Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9537	Di: 05.03.2024	Your Work Order No. MANUAL/RIL/BIH	Di: 11.06.2023	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 19.02.24			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	22	Humidity (%)	67
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Instrument ID	STH/Equip/52			
[i] Sample Quantity	60 ml			
[j] Sample Code	ST-9537			
[k] Sample Condition on Receipt	Fit for Analysis			
[l] Items required to be tested	As per contract			
[m] Whether any specific Method of Test has been suggested by the customer	No			
[n] Date of receiving the sample in Laboratory	20.02.24			
[o] Analysis Start Date / Analysis Completion Date	20.02.24 / 25.02.24			
Parameters	Unit	Method of Test	Results	
1. Stack Connected to			Pulveriser	
2. Stack No.			III	
3. Height of Stack (as reported)	Meter		14.2 m.	
4. Dia. of Stack at Top (as reported)	Meter		0.2 m.	
5. Draft			Natural	
6. Material of Construction	---		M.S.	
7. Ambient Temperature	°C		25.0	
8. Flue Gas Temperature	°C		30.0	
9. Velocity	m/sec.	IS 11255 (Part-3)	6.8	
10. Volumetric Flow Rate	NM ³ /hr.		758.5	
11. Sampling Point	Meter		5.0 M.	
			Limit as per EPA Notification	Concentration
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	2.0	1.8
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---	Not detectable
14. Oxides of Nitrogen (NO _x)	mg / NM ³	IS 11255 (Part-7)	---	Not detectable

Shibeswar Prasad
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9538	Dt: 05.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Vinay Kumar (Lab Representative) of Shiva Test House on 19.02.24	
[d] Sampling Location		Premises of Ramco Bihya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	22 Humidity (%) 67
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/52	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-9538	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		20.02.24	
[o] Analysis Start Date / Analysis Completion Date		20.02.24 / 25.02.24	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			Cement / Fly Ash Circuit
2. Stack No.			IV
3. Height of Stack (as reported)	Meter		26.2
4. Dia. of Stack at Top (as reported)	Meter		0.45
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		25.0
8. Flue Gas Temperature	°C		33.0
9. Velocity	m/sec.	IS 11255 (Part-3)	6.4
10. Volumetric Flow Rate	NM ³ /hr.		3591.0
11. Sampling Point	Meter		10.0 M.
			Limit as per EPA Notification
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	100
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---
14. Oxides of Nitrogen (NO _x)	mg / NM ³	IS 11255 (Part-7)	---
			Concentration
			14.1
			Not detectable
			Not detectable

Shibeswar Prasad
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Date: 2024.03.05
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Verified by :
Dr. Shibeswar Prasad
Technical Manager



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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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SHIVA TEST HOUSE

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TC-10582

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TEST REPORT

Ref. No. STH/TR/23-24/9539	Dt: 05.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 19.02.24			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	22	Humidity (%) 67	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Instrument ID	STH/Equip/52			
[i] Sample Quantity	60 ml			
[j] Sample Code	ST-9539			
[k] Sample Condition on Receipt	Fit for Analysis			
[l] Items required to be tested	As per contract			
[m] Whether any specific Method of Test has been suggested by the customer	No			
[n] Date of receiving the sample in Laboratory	20.02.24			
[o] Analysis Start Date / Analysis Completion Date	20.02.24 / 25.02.24			
Parameters	Unit	Method of Test	Results	
1. Stack Connected to			DG Set 1010 KVA	
2. Stack No.			V	
3. Height of Stack (as reported)	Meter		9.0 m.	
4. Dia. of Stack at Top (as reported)	Meter		0.15 m.	
5. Draft			Natural	
6. Material of Construction	---		M.S.	
7. Ambient Temperature	°C		25.0	
8. Flue Gas Temperature	°C		142.0	
9. Velocity	m/sec.	IS 11255 (Part-3)	8.4	
10. Volumetric Flow Rate	NM ³ /hr.		381.8	
11. Sampling Point	Meter		3.5 m.	
			Limit as per EPA Notification	Concentration
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	75.00 mg / NM ³	23.1
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified	16.6
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	710.00 mg / NM ³	161.1

Shibeswar Prasad
Digitally signed by Shibeswar Prasad
Date: 2024.03.05
14:05:28 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2024.03.05
14:07:53 +05'30'
Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/9539(A)	Dt: 05.03.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur – 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 19.02.24			
[d] Sampling Location	Premises of Ramco Bihya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	22	Humidity (%) 67	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Instrument ID	STH/Equip/52			
[i] Sample Quantity	60 ml			
[j] Sample Code	ST-9539			
[k] Sample Condition on Receipt	Fit for Analysis			
[l] Items required to be tested	As per contract			
[m] Whether any specific Method of Test has been suggested by the customer	No			
[n] Date of receiving the sample in Laboratory	20.02.24			
[o] Analysis Start Date / Analysis Completion Date	20.02.24 / 25.02.24			
Parameters	Unit	Method of Test	Results	
1. Stack Connected to			DG Set 1010 KVA	
2. Stack No.			V	
3. Height of Stack (as reported)	Meter		9.0 m.	
4. Dia. of Stack at Top (as reported)	Meter		0.15 m.	
5. Draft			Natural	
6. Material of Construction	---		MS	
7. Ambient Temperature	°C		25.0	
8. Flue Gas Temperature	°C		142.0	
9. Velocity	m/sec.	IS 11255 (Part-3)	8.4	
10. Volumetric Flow Rate	NM ³ /hr.		381.8	
11. Sampling Point	Meter		3.5 m.	
			Limit as per EPA Notification	Concentration
12. NMHC (as C) (at 15% O ₂)	mg / NM ³	CPCB	100.00 mg / NM ³	27.6
13. Carbon Monoxide as CO (at 15% O ₂)	mg / NM ³	IS 13270 – 2003	150.00 mg / NM ³	25.0

Shibeswar
Prasad
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Shibeswar Prasad
Date: 2024.03.05
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad
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Shreyasee Prasad
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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8883	Dt: 10.02.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 24.01.24			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	21	Humidity (%)	73
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Instrument ID	STH/Equip/52			
[i] Sample Quantity	60 ml			
[j] Sample Code	ST-8883			
[k] Sample Condition on Receipt	Fit for Analysis			
[l] Items required to be tested	As per contract			
[m] Whether any specific Method of Test has been suggested by the customer	No			
[n] Date of receiving the sample in Laboratory	25.01.24			
[o] Analysis Start Date / Analysis Completion Date	25.01.24 / 30.01.24			
Parameters	Unit	Method of Test	Results	
1. Stack Connected to			DG Set 750 KVA	
2. Stack No.			I	
3. Height of Stack (as reported)	Meter		12.9	
4. Dia. of Stack at Top (as reported)	Meter		0.2	
5. Draft			Natural	
6. Material of Construction	---		M.S.	
7. Ambient Temperature	°C		21.0	
8. Flue Gas Temperature	°C		131.0	
9. Velocity	m/sec.	IS 11255 (Part-3)	7.5	
10. Volumetric Flow Rate	NM ³ /hr.		626.2	
11. Sampling Point	Meter		3.5 M	
			Limit as per EPA Notification	Concentration
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	75.0	28.8
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified	22.0
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	710.0	152.2

SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2024.02.10
11:31:57 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2024.02.10
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8883(A)	Dt: 10.02.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 24.01.24			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	21	Humidity (%) 73	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Instrument ID	STH/Equip/52			
[i] Sample Quantity	60 ml			
[j] Sample Code	ST-8883			
[k] Sample Condition on Receipt	Fit for Analysis			
[l] Items required to be tested	As per contract			
[m] Whether any specific Method of Test has been suggested by the customer	No			
[n] Date of receiving the sample in Laboratory	25.01.24			
[o] Analysis Start Date / Analysis Completion Date	25.01.24 / 30.01.24			
Parameters	Unit	Method of Test	Results	
1. Stack Connected to			DG Set 750 KVA	
2. Stack No.			I	
3. Height of Stack (as reported)	Meter		12.9	
4. Dia. of Stack at Top (as reported)	Meter		0.2	
5. Draft			Natural	
6. Material of Construction	---		M.S.	
7. Ambient Temperature	°C		21.0	
8. Flue Gas Temperature	°C		131.0	
9. Velocity	m/sec.	IS 11255 (Part-3)	7.5	
10. Volumetric Flow Rate	NM ³ /hr.		626.2	
11. Sampling Point	Meter		3.5 M	
			Limit as per EPA Notification	Concentration
12. NMHC (as C) (at 15% O ₂)	mg / NM ³	CPCB	100.00 mg / NM ³	22.4
13. Carbon Monoxide as CO (at 15% O ₂)	mg / NM ³	IS 13270 – 2003	150.00 mg / NM ³	<150

SHIBESHWA
R PRASAD

Digitally signed by
SHIBESHWA PRASAD
Date: 2024.02.10
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee
Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8884	Dt: 10.02.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Vinay Kumar (Lab Representative) of Shiva Test House on 24.01.24	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	21 Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/52	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-8884	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		25.01.24	
[o] Analysis Start Date / Analysis Completion Date		25.01.24 / 30.01.24	

Parameters	Unit	Method of Test	Results
1. Stack Connected to			Fibre Dust Collector
2. Stack No.			II
3. Height of Stack (as reported)	Meter		26.2
4. Dia. of Stack at Top (as reported)	Meter		0.53
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		21.0
8. Flue Gas Temperature	°C		34.0
9. Velocity	m/sec.	IS 11255 (Part-3)	6.8
10. Volumetric Flow Rate	NM ³ /hr.		5257.1
11. Sampling Point	Meter		5.0 m.
			Limit as per EPA Notification
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	2.0
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---
14. Oxides of Nitrogen (NO _x)	mg / NM ³	IS 11255 (Part-7)	---

SHIBESHWAR PRASAD

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Date: 2024.02.10
11:34:38 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
Date: 2024.02.10
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8885		Dt: 10.02.2024		Your Work Order No. MANUAL/RIL/BIH		Dt: 11.06.2023	
[a] Name and address of the Customer				RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				By Vinay Kumar (Lab Representative) of Shiva Test House on 24.01.24			
[d] Sampling Location				Premises of Ramco Bihiya			
[e] Method of Sampling				IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition				Temp. (°C)	21	Humidity (%)	73
[g] Details of Sample Container (No. & Type of Container)				Thimble & Glass Impinger			
[h] Instrument ID				STH/Equip/52			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-8885			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the customer				No			
[n] Date of receiving the sample in Laboratory				25.01.24			
[o] Analysis Start Date / Analysis Completion Date				25.01.24 / 30.01.24			
Parameters		Unit	Method of Test		Results		
1. Stack Connected to		Meter	IS 11255 (Part-3)		Pulveriser		
2. Stack No.					III		
3. Height of Stack (as reported)					14.2 m.		
4. Dia. of Stack at Top (as reported)					0.2 m.		
5. Draft					Natural		
6. Material of Construction					M.S.		
7. Ambient Temperature					21.0		
8. Flue Gas Temperature					36.0		
9. Velocity		m/sec.			6.8		
10. Volumetric Flow Rate		NM³/hr.			739.3		
11. Sampling Point		Meter			5.0 M.		
					Limit as per EPA Notification		Concentration
12. Particulate Matter (P.M.)		mg / NM³	IS 11255 (Part-1)		2.0		2.0
13. Sulphur Dioxide (SO₂)		mg / NM³	IS 11255 (Part-2)		---		Not detectable
14. Oxides of Nitrogen (NOx)		mg / NM³	IS 11255 (Part-7)		---		Not detectable

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Digitally signed by SHIBESHWAR PRASAD
Date: 2024.02.10 11:34:49 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8886	Dr: 10.02.2024	Your Work Order No. MANUAL/RII/BIH	Dr: 11.06.2023
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152		
[b] Details of Sample	Monitoring of Stack Emission		
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 24.01.24		
[d] Sampling Location	Premises of Ramco Bihiya		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C)	21	Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Instrument ID	STH/Equip/52		
[i] Sample Quantity	60 ml		
[j] Sample Code	ST-8886		
[k] Sample Condition on Receipt	Fit for Analysis		
[l] Items required to be tested	As per contract		
[m] Whether any specific Method of Test has been suggested by the customer	No		
[n] Date of receiving the sample in Laboratory	25.01.24		
[o] Analysis Start Date / Analysis Completion Date	25.01.24 / 30.01.24		

Parameters	Unit	Method of Test	Results
1. Stack Connected to			Cement / Fly Ash Circuit
2. Stack No.			IV
3. Height of Stack (as reported)	Meter		26.2
4. Dia. of Stack at Top (as reported)	Meter		0.45
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		21.0
8. Flue Gas Temperature	°C		37.0
9. Velocity	m/sec.	IS 11255 (Part-3)	7.0
10. Volumetric Flow Rate	NM³/hr.		3873.2
11. Sampling Point	Meter		10.0 M.
			Limit as per EPA Notification
12. Particulate Matter (P.M.)	mg / NM³	IS 11255 (Part-1)	100
13. Sulphur Dioxide (SO₂)	mg / NM³	IS 11255 (Part-2)	---
14. Oxides of Nitrogen (NOx)	mg / NM³	IS 11255 (Part-7)	---

SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2024.02.10 11:35:01 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
Date: 2024.02.10 11:38:37 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/8887	Dt: 10.02.2024	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya, Bhojpur – 802 152		
[b] Details of Sample	Monitoring of Stack Emission		
[c] Sample Collected by	By Vinay Kumar (Lab Representative) of Shiva Test House on 24.01.24		
[d] Sampling Location	Premises of Ramco Bihiya		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C)	21	Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Instrument ID	STH/Equip/52		
[i] Sample Quantity	60 ml		
[j] Sample Code	ST-8887		
[k] Sample Condition on Receipt	Fit for Analysis		
[l] Items required to be tested	As per contract		
[m] Whether any specific Method of Test has been suggested by the customer	No		
[n] Date of receiving the sample in Laboratory	25.01.24		
[o] Analysis Start Date / Analysis Completion Date	25.01.24 / 30.01.24		

Parameters	Unit	Method of Test	Results
1. Stack Connected to			DG Set 1010 KVA
2. Stack No.			V
3. Height of Stack (as reported)	Meter		9.0 m.
4. Dia. of Stack at Top (as reported)	Meter		0.15 m.
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		21.0
8. Flue Gas Temperature	°C		151.0
9. Velocity	m/sec.	IS 11255 (Part-3)	8.3
10. Volumetric Flow Rate	NM ³ /hr.		372.3
11. Sampling Point	Meter		3.5 m.
			Limit as per EPA Notification
			Concentration
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	75.00 mg / NM ³
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified
14. Oxides of Nitrogen (NO _x)	mg / NM ³	IS 11255 (Part-7)	710.00 mg / NM ³

SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2024.02.10 11:35:13 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2024.02.10 11:38:49 +05'30'
Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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Website : www.shivatest.com ; www.shivastarthana.com



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(Serving since 1988)



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TEST REPORT

Ref. No. STH/TR/23-24/7495	Dt: 20.12.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur – 802 152		
[b] Details of Sample	Borewell Water Sample		
[c] Sample Collected by	By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23		
[d] Sampling Location	Collected from Borewell Near Godown		
[e] Method of Sampling	IS: 3025, APHA		
[f] Sampling Environmental Condition	Temp (°C)	25	Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)		
[h] Sample Quantity	2 Liters		
[i] Sample Code	BW-7495		
[j] Sample Condition on Receipt	Fit for analysis		
[k] Items required to be tested	As per contract.		
[l] Whether any specific Method of Test has been suggested by the customer	No		
[m] Date of receiving the sample in Laboratory	13.12.23		
[n] Analysis Start Date / Analysis Completion Date	13.12.23 / 18.12.23		

S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results
				Limit (mg/l.) Acceptable	Permissible Limit in the absence of alternative source	
1	Colour	Hazen	IS 3025 (Part-4)	5	15	< 5.00
2	Odour	-----	IS 3025 (Part-5)	Agreeable	Agreeable	Agreeable
3	Taste	-----	IS 3025 (Part-7)	Agreeable	Agreeable	Agreeable
4	pH at 25° C	-----	IS 3025 (Part-11)	6.5	8.5	7.39
5	Turbidity on NTU	NTU	IS 3025 (Part-10)	1.0	5.0	0.85
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-16)	500.0	2000.0	210.0
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	126.0
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	29.60
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	12.60
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.17
11	Residual Free Chlorine	mg/l.	IS 3025 (Part-26)	0.2	1.0	<0.1
12	Total Alkalinity as CaCO ₃	mg/l.	IS 3025 (Part-23)	200.0	600.00	178.0
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.00	16.0
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.00	19.8
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	2.07
16	Fluoride as F	mg/l.	APHA 4500 (F-D)	1.0	1.5	0.27

SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2023.12.20
14:15:28 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
Date: 2023.12.20
14:19:32 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7495(Mcb)	Dt: 20.12.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023		
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152				
[b] Details of Sample	Drinking Water Sample				
[c] Sample Collected by	By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23				
[d] Sampling Location	Collected from Borewell Near Godown				
[e] Method of Sampling	IS 1622				
[f] Sampling Environmental Condition	Temp (⁰ c)	25	Humidity (%) 73		
[g] No. & Type of Container	One Sterilized Glass Bottle				
[h] Sample Quantity	250 ml				
[i] Sample Code	DW-7495				
[j] Sample Condition on Receipt	Fit for analysis				
[k] Items required to be tested	As per contract				
[l] Whether any specific Method of Test has been suggested by the customer	No				
[m] Date of receiving the sample in Laboratory	13.12.23				
[n] Analysis Start Date / Analysis Completion Date	13.12.23 / 14.12.23				
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012	Results
1	Total Coliform	/ 100 ml	IS 15185: 2016*	Shall not be detectable in 100 ml.	Not Detected / 100 ml
2	E. coli	/ 100 ml	IS 15185: 2016*	Shall not be detectable in 100 ml.	Not Detected / 100 ml
N.B.*	(Water Quality – Detection and Enumeration of Escherichia coli and Coliform Bacteria – Membrane Filtration Method for Water with Low Bacterial Background Flora				



Vishal Sharma
Authorized Signatory
Mr. Vishal Sharma
Deputy Quality Manager (DQM)

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TEST REPORT

Ref. No. STH/TR/23-24/7496	Dt: 20.12.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Drinking Water Sample	
[c] Sample Collected by		By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23	
[d] Sampling Location		Collected from Canteen Aquaguard	
[e] Method of Sampling		IS: 3025, APHA	
[f] Sampling Environmental Condition		Temp (°C) 25 Humidity (%) 73	
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)	
[h] Sample Quantity		2 Liters	
[i] Sample Code		DW-7496	
[j] Sample Condition on Receipt		Fit for analysis	
[k] Items required to be tested		As per contract.	
[l] Whether any specific Method of Test has been suggested by the customer		No	
[m] Date of receiving the sample in Laboratory		13.12.23	
[n] Analysis Start Date / Analysis Completion Date		13.12.23 / 18.12.23	

S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results
				Limit (mg/l.) Acceptable	Permissible Limit in the absence of alternative source	
1	Colour	Hazen	IS 3025 (Part-4)	5	15	< 5.00
2	Odour	-----	IS 3025 (Part-5)	Agreeable	Agreeable	Agreeable
3	Taste	-----	IS 3025 (Part-7)	Agreeable	Agreeable	Agreeable
4	pH at 25° C	-----	IS 3025 (Part-11)	6.5	8.5	7.16
5	Turbidity on NTU	NTU	IS 3025 (Part-10)	1.0	5.0	0.64
6	Total Dissolved Solids (TDS)	mg/l.	IS 3025 (Part-16)	500.0	2000.0	52.0
7	Total Hardness as CaCO ₃	mg/l.	IS 3025 (Part-21)	200.0	600.0	28.0
8	Calcium as Ca	mg/l.	IS 3025 (Part-40)	75.0	200.0	8.0
9	Magnesium as Mg	mg/l.	IS 3025 (Part-46)	30.0	100.0	1.9
10	Iron as Fe	mg/l.	IS 3025 (Part-53)	1.0	No relaxation	0.08
11	Residual Free Chlorine	mg/l.	IS 3025 (Part-26)	0.2	1	<0.1
12	Total Alkalinity as CaCO ₃	mg/l.	IS 3025 (Part-23)	200.0	600.00	22.0
13	Chloride as Cl	mg/l.	IS 3025 (Part-32)	250.0	1000.00	9.0
14	Sulphate as SO ₄	mg/l.	IS 3025 (Part-24)	200.0	400.00	5.20
15	Nitrate as NO ₃	mg/l.	IS 3025 (Part-34)	45.0	No relaxation	0.87
16	Fluoride as F	mg/l.	APHA 4500 (F-D)	1.0	1.5	0.17

SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2023.12.20 14:15:57 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2023.12.20 14:19:54 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7496(Mcb) Dt: 20.12.2023				Your Work Order No. MANUAL/RIL/BIH Dt: 11.06.2023			
[a] Name and address of the Customer				RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample				Drinking Water Sample			
[c] Sample Collected by				By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23			
[d] Sampling Location				Collected from Canteen Aquaguard			
[e] Method of Sampling				IS 1622			
[f] Sampling Environmental Condition				Temp (°c)	25	Humidity (%)	73
[g] No. & Type of Container				One Sterilized Glass Bottle			
[h] Sample Quantity				250 ml			
[i] Sample Code				DW-7496			
[j] Sample Condition on Receipt				Fit for analysis			
[k] Items required to be tested				As per contract			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				13.12.23			
[n] Analysis Start Date / Analysis Completion Date				13.12.23 / 14.12.23			
S.N.	Parameters	Unit	Method of Test	Limit as per IS 10500: 2012		Results	
1	Total Coliform	/ 100 ml	IS 15185: 2016*	Shall not be detectable in 100 ml.		Not Detected / 100 ml	
2	E. coli	/ 100 ml	IS 15185: 2016*	Shall not be detectable in 100 ml.		Not Detected / 100 ml	
N.B.*	(Water Quality – Detection and Enumeration of Escherichia coli and Coliform Bacteria – Membrane Filtration Method for Water with Low Bacterial Background Flora						



Vishal Sharma

Authorized Signatory

Mr. Vishal Sharma

Deputy Quality Manager (DQM)

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TEST REPORT

Ref. No. STH/TR/23-24/7497		Dt: 20.12.2023		Your Work Order No. MANUAL/RIL/BIH		Dt: 11.06.2023	
[a] Name and address of the Customer				RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample				Effluent Sample			
[c] Sample Collected by				By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23			
[d] Sampling Location				Collected from Final Discharge Point			
[e] Method of Sampling				IS 3025, APHA			
[f] Sampling Environmental Condition				Temp (°C)		25	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)				Plastic Bottle (02)			
[h] Sample Quantity				2 Litres			
[i] Sample Code				E-7497			
[j] Sample Condition on Receipt				Fit for analysis			
[k] Items required to be tested				As per contract.			
[l] Whether any specific Method of Test has been suggested by the customer				No			
[m] Date of receiving the sample in Laboratory				13.12.23			
[n] Analysis Start Date / Analysis Completion Date				13.12.23 / 18.12.23			
S. N.	Parameters	Unit	Method of Test	Limit as per E (P) Rules Schedule VI	Result		
1	pH at 25°C	--	IS 3025 (Part-11)	5.5 to 9.0	8.23		
2	Suspended Solids	mg/l.	IS 3025(Part-17)	100.0	47.0		
3	Oil & Grease	mg/l.	IS 3025 (Part-39)	10.0	1.20		
4	B.O.D. (3 days at 27°C)	mg/l.	IS 3025 (Part-44)	30.0	23.0		
5	C.O.D.	mg/l.	APHA 5220 B	250.0	128.0		
6	Dissolved Phosphate as P	mg/l.	APHA (4500-P-D)	5.0	1.10		
7	Fluoride as F	mg/l.	APHA 4500 (F-D)	5.0	0.48		
8	Ammonical Nitrogen as N	mg/l.	IS 3025 (Part-34)	50.0	12.3		
9	Total Kjeldahl Nitrogen as N	mg/l.	APHA (4500 N org)	100.0	18.5		

SHIBESHWAR PRASAD

Digitally signed by SHIBESHWAR PRASAD
Date: 2023.12.20
14:16:08 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
Date: 2023.12.20
14:20:06 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7498-7501		Dt: 20.12.2023		Your Work Order No. MANUAL/RIL/BIH		Dt: 11.06.2023	
[a] Name and address of the Customer				RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample				Monitoring of Ambient Air Quality			
[c] Sample Collected by				By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23			
[d] Sampling Location				Premises of Ramco Bihiya			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C)		25	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)				Filter Paper; Glass Impinger			
[e] Instrument ID				STH/Equip/26, STH/Equip/113, STH/Equip/27, STH/Equip/114, STH/Equip/54, STH/Equip/115, STH/Equip/55, STH/Equip/116			
[h] Sample Quantity				30 ml x 24 (for each NO ₂ , SO ₂)			
[f] Sample Condition on Receipt				Fit for Analysis			
[i] Items required to be tested				As per contract			
[j] Whether any specific Method of Test has been suggested by the customer				No			
[k] Date of receiving the sample in Laboratory				13.12.23			
[l] Analysis Start Date / Analysis Completion Date				13.12.23 / 18.12.23			
Parameters	Unit	Method of Test	Limit as NAAQS Nov.'2009	Sampling Station / Results			
				Near Office (SC-A-7498)	Near Rear Gate (SC-A-7499)	Near Stripping Area (SC-A-7500)	Near Laboratory (SC-A-7501)
1. Particulate Matter (PM ₁₀)	µg / m ³	IS 5182 (Part-23)	100	88.7 69.3 76.4	70.3 65.4 64.5	71.4 68.7 66.5	74.7 63.7 69.4
2. Particulate Matter (PM _{2.5})	µg / m ³	IS 5182 (Part-24)	60	47.7 35.1 45.2	44.3 32.9 39.2	48.2 32.9 43.1	45.0 31.3 41.3
3. Sulphur Dioxide as SO ₂	µg / m ³	IS 5182 (Part-2)	80	27.7 24.2 9.9 11.9 10.9 24.7	22.1 20.6 16.1 17.1 19.1 21.1	26.4 22.9 11.7 9.8 15.6 28.3	27.3 19.9 11.7 10.7 17.6 30.3
4. Nitrogen Dioxide as NO ₂	µg / m ³	IS 5182 (Part-6)	80	39.6 37.0 26.2 23.5 38.3 40.3	40.4 38.4 24.6 26.0 30.8 39.0	40.5 40.0 29.9 25.2 37.2 41.8	41.8 37.3 31.9 26.5 31.9 43.1
Average Value							
PM ₁₀				78.1	66.7	68.9	69.3
PM _{2.5}				42.7	38.8	41.4	39.2
SO ₂				18.2	19.4	19.1	19.6
NO ₂				34.1	33.2	35.8	35.4

SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2023.12.20 14:16:19 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2023.12.20 14:20:17 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7498-7501(A)		Dt: 20.12.2023		Your Work Order No. MANUAL/RIL/BIH		Dt: 11.06.2023	
[a] Name and address of the Customer				RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample				Monitoring of Ambient Air Quality			
[c] Sample Collected by				By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23			
[d] Sampling Location				Premises of Ramco Bihiya			
[e] Method of Sampling				IS 5182 (Part - 14)			
[f] Sampling Environmental Condition				Temp. (°C) 25 Humidity (%) 73			
[g] Details of Sample Container (No. & Type of Container)				Filter Paper ; Glass Impinger			
[h] Sample Quantity				30 ml x 24 (for each NO ₂ , SO ₂)			
[i] Items required to be tested				As per contract			
[j] Whether any specific Method of Test has been suggested by the customer				No			
[k] Date of receiving the sample in Laboratory				13.12.23			
[l] Analysis Start Date / Analysis Completion Date				13.12.23 / 18.12.23			
Parameters	Method of Test	Unit	Limit as per EPA Notification	Sampling Station			
				Near Office (SC-A-7498)	Near Rear Gate (SC-A-7499)	Near Stripping Area (SC-A-7500)	Near Laboratory (SC-A-7501)
1. Lead (Pb)	IS 5182 (Part-22)	µg / m ³	1	0.07	0.08	0.08	0.07
2. Ammonia as NH ₃	IS 5182 (Part-25)	µg / m ³	400	11.1	15.4	10.7	13.0
3. Ozone (O ₃)	IS 5182 (Part-9)	µg / m ³	180	43.5	50.2	47.8	50.5

SHIBESHWAR PRASAD

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7498-7501(B)	Dt: 20.12.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152		
[b] Details of Sample	Monitoring of Ambient Air Quality		
[c] Sample Collected by	By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23		
[d] Sampling Location	Premises of Ramco Bihiya		
[e] Method of Sampling	IS 5182 (Part - 14)		
[f] Sampling Environmental Condition	Temp. (°C)	25	Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger		
[h] Sample Quantity	30 ml x 24 (for each NO ₂ , SO ₂)		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	13.12.23		
[l] Analysis Start Date / Analysis Completion Date	13.12.23 / 18.12.23		

Parameters	Method of Test	Unit	Limit as per EPA Notification	Sampling Station			
				Near Office (SC-A-7498)	Near Rear Gate (SC-A-7499)	Near Stripping Area (SC-A-7500)	Near Laboratory (SC-A-7501)
1. Carbon Monoxide (CO)	IS 5182 (Part-10)	mg / m ³	4	0.37	0.34	0.28	0.19
2. Benzene (C ₆ H ₆)	IS 5182 (Part-11)	µg / m ³	5	0.16	0.15	0.13	0.14
3. Arsenic (As)	USEPA Method-108	ng / m ³	6	0.26	0.15	0.14	0.13
4. Nickel as Ni	IS 5182 (Part-26)	ng / m ³	20	<20.0	<20.0	<20.0	<20.0
5. Benzo (a) Pyrene, (Particulate Phase only)	IS 5182 (Part-12)	ng / m ³	1.0	0.15	0.14	0.15	0.15

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7502	Dt: 20.12.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	25 Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/52	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-7502	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		13.12.23	
[o] Analysis Start Date / Analysis Completion Date		13.12.23 / 18.12.23	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			DG Set 750 KVA
2. Stack No.			I
3. Height of Stack (as reported)	Meter		12.9
4. Dia. of Stack at Top (as reported)	Meter		0.2
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		25.0
8. Flue Gas Temperature	°C		139.0
9. Velocity	m/sec.	IS 11255 (Part-3)	7.70
10. Volumetric Flow Rate	NM³/hr.		630.70
11. Sampling Point	Meter		3.5 M
			Limit as per EPA Notification
			Concentration
12. Particulate Matter (P.M.)	mg / NM³	IS 11255 (Part-1)	75.0
13. Sulphur Dioxide (SO₂)	mg / NM³	IS 11255 (Part-2)	Not Specified
14. Oxides of Nitrogen (NOx)	mg / NM³	IS 11255 (Part-7)	710.0

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7502(A)	Dt: 20.12.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	25 Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/52	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-7502	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		13.12.23	
[o] Analysis Start Date / Analysis Completion Date		13.12.23 / 18.12.23	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			DG Set 750 KVA
2. Stack No.			I
3. Height of Stack (as reported)	Meter		12.9
4. Dia. of Stack at Top (as reported)	Meter		0.2
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		25.0
8. Flue Gas Temperature	°C		139.0
9. Velocity	m/sec.	IS 11255 (Part-3)	7.70
10. Volumetric Flow Rate	NM ³ /hr.		630.7
11. Sampling Point	Meter		3.5 M
			Limit as per EPA Notification
			Concentration
12. NMHC (as C) (at 15% O ₂)	mg / NM ³	CPCB	100.00 mg / NM ³ 25.6
13. Carbon Monoxide as CO (at 15% O ₂)	mg / NM ³	IS 13270 – 2003	150.00 mg / NM ³ <150

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SHIBESHWAR PRASAD
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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7503	Dt: 20.12.2023		Your Work Order No. MANUAL/RIL/BIH		Dt: 11.06.2023	
[a] Name and address of the Customer			RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample			Monitoring of Stack Emission			
[c] Sample Collected by			By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23			
[d] Sampling Location			Premises of Ramco Bihiya			
[e] Method of Sampling			IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition			Temp. (°C)	25	Humidity (%)	73
[g] Details of Sample Container (No. & Type of Container)			Thimble & Glass Impinger			
[h] Instrument ID			STH/Equip/52			
[i] Sample Quantity			60 ml			
[j] Sample Code			ST-7503			
[k] Sample Condition on Receipt			Fit for Analysis			
[l] Items required to be tested			As per contract			
[m] Whether any specific Method of Test has been suggested by the customer			No			
[n] Date of receiving the sample in Laboratory			13.12.23			
[o] Analysis Start Date / Analysis Completion Date			13.12.23 / 18.12.23			
Parameters		Unit	Method of Test		Results	
1. Stack Connected to					Fibre Dust Collector	
2. Stack No.					II	
3. Height of Stack (as reported)		Meter			26.2	
4. Dia. of Stack at Top (as reported)		Meter			0.53	
5. Draft					Natural	
6. Material of Construction		---			M.S.	
7. Ambient Temperature		°C			25.0	
8. Flue Gas Temperature		°C			32.0	
9. Velocity		m/sec.	IS 11255 (Part-3)		6.60	
10. Volumetric Flow Rate		NM³/hr.			5101.5	
11. Sampling Point		Meter			5 m.	
					Limit as per EPA Notification	Concentration
12. Particulate Matter (P.M.)		mg / NM³	IS 11255 (Part-1)		2.0	2.0
13. Sulphur Dioxide (SO₂)		mg / NM³	IS 11255 (Part-2)		---	Not Detectable
14. Oxides of Nitrogen (NOx)		mg / NM³	IS 11255 (Part-7)		---	Not Detectable

SHIBESHWAR PRASAD

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7504	Dt: 20.12.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	25 Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/52	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-7504	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		13.12.23	
[o] Analysis Start Date / Analysis Completion Date		13.12.23 / 18.12.23	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			Pulveriser
2. Stack No.			III
3. Height of Stack (as reported)	Meter		14.2 m.
4. Dia. of Stack at Top (as reported)	Meter		0.2 m.
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		25.0
8. Flue Gas Temperature	°C		30.0
9. Velocity	m/sec.	IS 11255 (Part-3)	6.8
10. Volumetric Flow Rate	NM ³ /hr.		758.5
11. Sampling Point	Meter		5.0 M.
			Limit as per EPA Notification
			Concentration
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	2.0
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	---

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Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7505	Dt: 20.12.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	25 Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/52	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-7505	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		13.12.23	
[o] Analysis Start Date / Analysis Completion Date		13.12.23 / 18.12.23	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			Cement / Fly Ash Circuit
2. Stack No.			IV
3. Height of Stack (as reported)	Meter		26.2
4. Dia. of Stack at Top (as reported)	Meter		0.45
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		25.0
8. Flue Gas Temperature	°C		32.0
9. Velocity	m/sec.	IS 11255 (Part-3)	6.4
10. Volumetric Flow Rate	NM ³ /hr.		3596.9
11. Sampling Point	Meter		10.0 M.
			Limit as per EPA Notification
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	100
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---
14. Oxides of Nitrogen (NO _x)	mg / NM ³	IS 11255 (Part-7)	---
			Concentration
			14.0
			Not detectable
			Not detectable

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Verified by:
Dr. Shibeshwar Prasad
Technical Manager



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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7506	Dt: 20.12.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1, 2, 3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	25 Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/52	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-7506	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		13.12.23	
[o] Analysis Start Date / Analysis Completion Date		13.12.23 / 18.12.23	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			DG Set 1010 KVA
2. Stack No.			V
3. Height of Stack (as reported)	Meter		9.0 m.
4. Dia. of Stack at Top (as reported)	Meter		0.15 m.
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		25.0
8. Flue Gas Temperature	°C		158.0
9. Velocity	m/sec.	IS 11255 (Part-3)	7.9
10. Volumetric Flow Rate	NM ³ /hr.		346.9
11. Sampling Point	Meter		3.5 m.
			Limit as per EPA Notification
			Concentration
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	75.00 mg / NM ³
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	710.00 mg / NM ³

SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2023.12.20 14:18:31 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
Digitally signed by Shreyasee Prasad
Date: 2023.12.20 14:29:30 +05'30'
Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7506(A)		Dt: 20.12.2023		Your Work Order No. MANUAL/RIL/BIH		Dt: 11.06.2023	
[a] Name and address of the Customer				RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23			
[d] Sampling Location				Premises of Ramco Bihiya			
[e] Method of Sampling				IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition				Temp. (°C)	25	Humidity (%)	73
[g] Details of Sample Container (No. & Type of Container)				Thimble & Glass Impinger			
[h] Instrument ID				STH/Equip/52			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-7506			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the customer				No			
[n] Date of receiving the sample in Laboratory				13.12.23			
[o] Analysis Start Date / Analysis Completion Date				13.12.23 / 18.12.23			
Parameters		Unit	Method of Test		Results		
1. Stack Connected to		Meter			DG Set 1010 KVA		
2. Stack No.					V		
3. Height of Stack (as reported)					9.0 m.		
4. Dia. of Stack at Top (as reported)					0.15 m.		
5. Draft					Natural		
6. Material of Construction					M.S.		
7. Ambient Temperature					25.0		
8. Flue Gas Temperature					158.0		
9. Velocity		m/sec.	IS 11255 (Part-3)		7.9		
10. Volumetric Flow Rate		NM³/hr.			346.9		
11. Sampling Point		Meter			3.5 m.		
					Limit as per EPA Notification		Concentration
12. NMHC (as C) (at 15% O₂)		mg / NM³	CPCB		100.00 mg / NM³		27.3
13. Carbon Monoxide as CO (at 15% O₂)		mg / NM³	IS 13270 – 2003		150.00 mg / NM³		<150

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Verified by :
Dr. Shibeshwar Prasad
 Technical Manager



Shreyasee Prasad
 Digitally signed by Shreyasee Prasad
 Date: 2023.12.20 14:29:45 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
 Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/7507		Dt: 20.12.2023		Your Work Order No. MANUAL/RIL/BIH		Dt: 11.06.2023	
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152					
[b] Details of Sample		Monitoring of Ambient Noise Level					
[c] Sample Collected By		By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23					
[d] Sampling Location		Monitoring of Ambient Noise Level at Ramco Bihiya					
[e] Sampling Environmental Condition		Temp. (°C)	25	Humidity (%)	73		
[f] Sample Code		N-7507					
[g] Items required to be tested		Day time Noise Level					
[h] Whether any specific Method of Test has been suggested by the customer		No					
[i] Date of receiving the sample in Laboratory		13.12.23					
Sampling Location		Unit	Time Weighted Average (TWA) of Noise Level				
			Day time				
1. Near Main Gate		db(A)	65.9				
2. Near Office		db(A)	60.8				
3. Near Stripping Area		db(A)	64.9				
4. Near Fibre Mill		db(A)	66.2				
5. Near DG Room		db(A)	68.1				
N.B.: 1. The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.							

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/281-284		Dt: 20.12.2023		Your Work Order No. MANUAL/RIL/BIH		Dt: 11.06.2023		
[a] Name and address of the Customer				RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152				
[b] Details of Sample				Monitoring of Respirable Dust in Work Zone Area				
[c] Sample Collected by				By Ashish Kumar (Lab Representative) of Shiva Test House on 12.12.23				
[d] Sampling Location				Premises of Ramco Bihiya				
[e] Method of Sampling				IS 5182 (Part - 14)				
[f] Sampling Environmental Condition				Temp (°C)		25	Humidity (%)	73
[g] Details of Sample Container (No. & Type of Container)				Filter Paper ; Glass Impinger				
[h] Sample Quantity				04				
[i] Items required to be tested				As per contract				
[j] Whether any specific Method of Test has been suggested by the customer				No				
[k] Date of receiving the sample in Laboratory				13.12.23				
[l] Analysis Start Date / Analysis Completion Date				13.12.23 / 18.12.23				
S. N.	Sampling Point	Sample Code	Limit as NAAQS Nov. '2009 ($\mu\text{g}/\text{M}^3$)	Unit	Concentration of Respirable Dust (PM_{10}) [08 hrs.] ($\mu\text{g}/\text{M}^3$)			
1	Fibre Mill Area	SC_FE-281	100.0	$\mu\text{g}/\text{M}^3$	95.3			
2	Hats check Mahine	SC_FE-282		$\mu\text{g}/\text{M}^3$	87.2			
3	Stripping Machine	SC_FE-283		$\mu\text{g}/\text{M}^3$	86.1			
4	Pulverizer Area	SC_FE-284		$\mu\text{g}/\text{M}^3$	88.6			

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/6388	Dt: 16.11.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 04.03.2022
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur – 802 152		
[b] Details of Sample	Monitoring of Stack Emission		
[c] Sample Collected by	By Pradeep Kumar (Lab Representative) of Shiva Test House on 06.11.23		
[d] Sampling Location	Premises of Ramco Bihya		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C)	30	Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Instrument ID	STH/Equip/52		
[i] Sample Quantity	60 ml		
[j] Sample Code	ST-6388		
[k] Sample Condition on Receipt	Fit for Analysis		
[l] Items required to be tested	As per contract		
[m] Whether any specific Method of Test has been suggested by the customer	No		
[n] Date of receiving the sample in Laboratory	07.11.23		
[o] Analysis Start Date / Analysis Completion Date	07.11.23 / 12.11.23		
Parameters	Unit	Method of Test	Results
1. Stack Connected to			DG Set 750 KVA
2. Stack No.			I
3. Height of Stack (as reported)	Meter		12.9
4. Dia. of Stack at Top (as reported)	Meter		0.2
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		30.0
8. Flue Gas Temperature	°C		141.0
9. Velocity	m/sec.	IS 11255 (Part-3)	7.7
10. Volumetric Flow Rate	NM ³ /hr.		629.3
11. Sampling Point	Meter		3.5 M
			Limit as per EPA Notification
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	75.0
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified
14. Oxides of Nitrogen (NO _x)	mg / NM ³	IS 11255 (Part-7)	710.0
			Concentration
			25.0
			13.4
			141.1

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Date: 2023.11.16 10:49:56 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/6388(A)	Dt: 16.11.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 04.03.2022
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Pradeep Kumar (Lab Representative) of Shiva Test House on 06.11.23	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	30 Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		STH/Equip/52	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-6388	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		07.11.23	
[o] Analysis Start Date / Analysis Completion Date		07.11.23 / 12.11.23	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			DG Set 750 KVA
2. Stack No.			I
3. Height of Stack (as reported)	Meter		12.9
4. Dia. of Stack at Top (as reported)	Meter		0.2
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		30.0
8. Flue Gas Temperature	°C		141.0
9. Velocity	m/sec.	IS 11255 (Part-3)	7.7
10. Volumetric Flow Rate	NM ³ /hr.		629.3
11. Sampling Point	Meter		3.5 M
			Limit as per EPA Notification
12. NMHC (as C) (at 15% O ₂)	mg / NM ³	CPCB	100.00 mg / NM ³
13. Carbon Monoxide as CO (at 15% O ₂)	mg / NM ³	IS 13270 – 2003	150.00 mg / NM ³
			Concentration
			24.0
			<150

SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2023.11.16
10:50:15 +05'30'

Verified by:
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/6389	Dt: 16.11.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 04.03.2022
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152		
[b] Details of Sample	Monitoring of Stack Emission		
[c] Sample Collected by	By Pradeep Kumar (Lab Representative) of Shiva Test House on 06.11.23		
[d] Sampling Location	Premises of Ramco Bihiya		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C)	30	Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Instrument ID	STH/Equip/52		
[i] Sample Quantity	60 ml		
[j] Sample Code	ST-6389		
[k] Sample Condition on Receipt	Fit for Analysis		
[l] Items required to be tested	As per contract		
[m] Whether any specific Method of Test has been suggested by the customer	No		
[n] Date of receiving the sample in Laboratory	07.11.23		
[o] Analysis Start Date / Analysis Completion Date	07.11.23 / 12.11.23		
Parameters	Unit	Method of Test	Results
1. Stack Connected to			Fibre Dust Collector
2. Stack No.			II
3. Height of Stack (as reported)	Meter		26.2
4. Dia. of Stack at Top (as reported)	Meter		0.53
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		30.0
8. Flue Gas Temperature	°C		38.0
9. Velocity	m/sec.	IS 11255 (Part-3)	6.7
10. Volumetric Flow Rate	NM ³ /hr.		5065.8
11. Sampling Point	Meter		5 m.
			Limit as per EPA Notification
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	2.0
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---
14. Oxides of Nitrogen (NO _x)	mg / NM ³	IS 11255 (Part-7)	---
			Concentration
			1.8
			Not Detectable
			Not Detectable

SHIBESHWAR PRASAD
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Date: 2023.11.16 10:50:26 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/6390	Dt: 16.11.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 04.03.2022
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152		
[b] Details of Sample	Monitoring of Stack Emission		
[c] Sample Collected by	By Pradeep Kumar (Lab Representative) of Shiva Test House on 06.11.23		
[d] Sampling Location	Premises of Ramco Bihiya		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C)	30	Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Instrument ID	STH/Equip/52		
[i] Sample Quantity	60 ml		
[j] Sample Code	ST-6390		
[k] Sample Condition on Receipt	Fit for Analysis		
[l] Items required to be tested	As per contract		
[m] Whether any specific Method of Test has been suggested by the customer	No		
[n] Date of receiving the sample in Laboratory	07.11.23		
[o] Analysis Start Date / Analysis Completion Date	07.11.23 / 12.11.23		
Parameters	Unit	Method of Test	Results
1. Stack Connected to			Pulveriser
2. Stack No.			III
3. Height of Stack (as reported)	Meter		14.2 m.
4. Dia. of Stack at Top (as reported)	Meter		0.2 m.
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		30.0
8. Flue Gas Temperature	°C		35.0
9. Velocity	m/sec.	IS 11255 (Part-3)	6.8
10. Volumetric Flow Rate	NM³/hr.		740.5
11. Sampling Point	Meter		5.0 M.
			Limit as per EPA Notification
			Concentration
12. Particulate Matter (P.M.)	mg / NM³	IS 11255 (Part-1)	2.0
13. Sulphur Dioxide (SO₂)	mg / NM³	IS 11255 (Part-2)	---
14. Oxides of Nitrogen (NOx)	mg / NM³	IS 11255 (Part-7)	---

SHIBESHWAR PRASAD

Digitally signed by
SHIBESHWAR PRASAD
Date: 2023.11.16
10:50:36 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by
Shreyasee Prasad
Date: 2023.11.16
10:57:57 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/6391	Dt: 16.11.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 04.03.2022
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152		
[b] Details of Sample	Monitoring of Stack Emission		
[c] Sample Collected by	By Pradeep Kumar (Lab Representative) of Shiva Test House on 06.11.23		
[d] Sampling Location	Premises of Ramco Bihiya		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C)	30	Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Instrument ID	STH/Equip/52		
[i] Sample Quantity	60 ml		
[j] Sample Code	ST-6391		
[k] Sample Condition on Receipt	Fit for Analysis		
[l] Items required to be tested	As per contract		
[m] Whether any specific Method of Test has been suggested by the customer	No		
[n] Date of receiving the sample in Laboratory	07.11.23		
[o] Analysis Start Date / Analysis Completion Date	07.11.23 / 12.11.23		
Parameters	Unit	Method of Test	Results
1. Stack Connected to			Cement / Fly Ash Circuit
2. Stack No.			IV
3. Height of Stack (as reported)	Meter		26.2
4. Dia. of Stack at Top (as reported)	Meter		0.45
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		30.0
8. Flue Gas Temperature	°C		37.0
9. Velocity	m/sec.	IS 11255 (Part-3)	6.6
10. Volumetric Flow Rate	NM ³ /hr.		3650.5
11. Sampling Point	Meter		10.0 M.
			Limit as per EPA Notification
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	100
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---
14. Oxides of Nitrogen (NO _x)	mg / NM ³	IS 11255 (Part-7)	---
			Concentration
			14.4
			Not detectable
			Not detectable

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/6392	Dt: 16.11.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 04.03.2022
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152		
[b] Details of Sample	Monitoring of Stack Emission		
[c] Sample Collected by	By Pradeep Kumar (Lab Representative) of Shiva Test House on 06.11.23		
[d] Sampling Location	Premises of Ramco Bihiya		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C)	30	Humidity (%) 73
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Instrument ID	STH/Equip/52		
[i] Sample Quantity	60 ml		
[j] Sample Code	ST-6392		
[k] Sample Condition on Receipt	Fit for Analysis		
[l] Items required to be tested	As per contract		
[m] Whether any specific Method of Test has been suggested by the customer	No		
[n] Date of receiving the sample in Laboratory	07.11.23		
[o] Analysis Start Date / Analysis Completion Date	07.11.23 / 12.11.23		

Parameters	Unit	Method of Test	Results	
1. Stack Connected to			DG Set 1010 KVA	
2. Stack No.			V	
3. Height of Stack (as reported)	Meter		9.0 m.	
4. Dia. of Stack at Top (as reported)	Meter		0.15 m.	
5. Draft			Natural	
6. Material of Construction	---		M.S.	
7. Ambient Temperature	°C		30.0	
8. Flue Gas Temperature	°C		157.0	
9. Velocity	m/sec.	IS 11255 (Part-3)	7.7	
10. Volumetric Flow Rate	NM ³ /hr.		341.5	
11. Sampling Point	Meter		3.5 m.	
			Limit as per EPA Notification	Concentration
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	75.00 mg / NM ³	25.4
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified	12.3
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	710.00 mg / NM ³	153.2

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Dr. Shibeshwar Prasad
Technical Manager



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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/6392(A)	Dt: 16.11.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 04.03.2022	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	By Pradeep Kumar (Lab Representative) of Shiva Test House on 06.11.23			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	30	Humidity (%) 73	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Instrument ID	STH/Equip/52			
[i] Sample Quantity	60 ml			
[j] Sample Code	ST-6392			
[k] Sample Condition on Receipt	Fit for Analysis			
[l] Items required to be tested	As per contract			
[m] Whether any specific Method of Test has been suggested by the customer	No			
[n] Date of receiving the sample in Laboratory	07.11.23			
[o] Analysis Start Date / Analysis Completion Date	07.11.23 / 12.11.23			
Parameters	Unit	Method of Test	Results	
1. Stack Connected to			DG Set 1010 KVA	
2. Stack No.			V	
3. Height of Stack (as reported)	Meter		9.0 m.	
4. Dia. of Stack at Top (as reported)	Meter		0.15 m.	
5. Draft			Natural	
6. Material of Construction	---		M.S.	
7. Ambient Temperature	°C		30.0	
8. Flue Gas Temperature	°C		157.0	
9. Velocity	m/sec.	IS 11255 (Part-3)	7.7	
10. Volumetric Flow Rate	NM ³ /hr.		341.5	
11. Sampling Point	Meter		3.5 m.	
			Limit as per EPA Notification	Concentration
12. NMHC (as C) (at 15% O ₂)	mg / NM ³	CPCB	100.00 mg / NM ³	25.0
13. Carbon Monoxide as CO (at 15% O ₂)	mg / NM ³	IS 13270 – 2003	150.00 mg / NM ³	<150

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/5506	Dt: 19.10.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Pradeep Kumar (Lab Representative) of Shiva Test House on 12.10.23	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	33 Humidity (%) 72
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		VSS-1 PLS	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-5506	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		13.10.23	
[o] Analysis Start Date / Analysis Completion Date		13.10.23 / 18.10.23	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			DG Set 750 KVA
2. Stack No.			I
3. Height of Stack (as reported)	Meter		12.9
4. Dia. of Stack at Top (as reported)	Meter		0.2
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		32.0
8. Flue Gas Temperature	°C		144.0
9. Velocity	m/sec.	IS 11255 (Part-3)	8.0
10. Volumetric Flow Rate	NM ³ /hr.		647.1
11. Sampling Point	Meter		3.5 M
			Limit as per EPA Notification
			Concentration
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	75.0
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	710.0

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

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[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Pradeep Kumar (Lab Representative) of Shiva Test House on 12.10.23	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	33 Humidity (%) 72
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		VSS-1 PLS	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-5506	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		13.10.23	
[o] Analysis Start Date / Analysis Completion Date		13.10.23 / 18.10.23	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			DG Set 750 KVA
2. Stack No.			I
3. Height of Stack (as reported)	Meter		12.9
4. Dia. of Stack at Top (as reported)	Meter		0.2
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		32.0
8. Flue Gas Temperature	°C		144.0
9. Velocity	m/sec.	IS 11255 (Part-3)	8.0
10. Volumetric Flow Rate	NM ³ /hr.		647.1
11. Sampling Point	Meter		3.5 M
			Limit as per EPA Notification
12. NMHC (as C) (at 15% O ₂)	mg / NM ³	CPCB	100.00 mg / NM ³
13. Carbon Monoxide as CO (at 15% O ₂)	mg / NM ³	IS 13270 – 2003	150.00 mg / NM ³
			Concentration
			24.0
			<150

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/5507		Dt : 19.10.2023		Your Work Order No. MANUAL/RIL/BIH		Dt: 11.06.2023	
[a] Name and address of the Customer				RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample				Monitoring of Stack Emission			
[c] Sample Collected by				By Pradeep Kumar (Lab Representative) of Shiva Test House on 12.10.23			
[d] Sampling Location				Premises of Ramco Bihiya			
[e] Method of Sampling				IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition				Temp. (°C)	33	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)				Thimble & Glass Impinger			
[h] Instrument ID				VSS-1 PLS			
[i] Sample Quantity				60 ml			
[j] Sample Code				ST-5507			
[k] Sample Condition on Receipt				Fit for Analysis			
[l] Items required to be tested				As per contract			
[m] Whether any specific Method of Test has been suggested by the customer				No			
[n] Date of receiving the sample in Laboratory				13.10.23			
[o] Analysis Start Date / Analysis Completion Date				13.10.23 / 18.10.23			
Parameters		Unit	Method of Test		Results		
1. Stack Connected to		Meter			Fibre Dust Collector		
2. Stack No.					II		
3. Height of Stack (as reported)					26.2		
4. Dia. of Stack at Top (as reported)					0.53		
5. Draft					Natural		
6. Material of Construction					M.S.		
7. Ambient Temperature					32.0		
8. Flue Gas Temperature					41.0		
9. Velocity		m/sec.	IS 11255 (Part-3)		6.8		
10. Volumetric Flow Rate		NM³/hr.			5124.4		
11. Sampling Point		Meter			5 m.		
					Limit as per EPA Notification		Concentration
12. Particulate Matter (P.M.)		mg / NM³	IS 11255 (Part-1)		2.0		1.5
13. Sulphur Dioxide (SO₂)		mg / NM³	IS 11255 (Part-2)		---		Not Detectable
14. Oxides of Nitrogen (NOx)		mg / NM³	IS 11255 (Part-7)		---		Not Detectable

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Dr. Shibeshwar Prasad
Technical Manager



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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/5508	Di: 19.10.2023	Your Work Order No. MANUAL/RIL/BIH	Di: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Pradeep Kumar (Lab Representative) of Shiva Test House on 12.10.23	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	33 Humidity (%) 72
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		VSS-1 PLS	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-5508	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		13.10.23	
[o] Analysis Start Date / Analysis Completion Date		13.10.23 / 18.10.23	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			Pulveriser
2. Stack No.			III
3. Height of Stack (as reported)	Meter		14.2 m.
4. Dia. of Stack at Top (as reported)	Meter		0.2 m.
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		32.0
8. Flue Gas Temperature	°C		39.0
9. Velocity	m/sec.	IS 11255 (Part-3)	7.0
10. Volumetric Flow Rate	NM ³ /hr.		759.2
11. Sampling Point	Meter		5.0 M.
			Limit as per EPA Notification
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	2.0
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	---
			Concentration
			1.2
			Not detectable
			Not detectable

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16:39:13 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

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Dr. (Mrs.) Shreyasee Prasad
Quality Manager

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TEST REPORT

Ref. No. STH/TR/23-24/5509	Dt : 19.10.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Pradeep Kumar (Lab Representative) of Shiva Test House on 12.10.23	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	33 Humidity (%) 72
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		VSS-1-PLS	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-5509	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		13.10.23	
[o] Analysis Start Date / Analysis Completion Date		13.10.23 / 18.10.23	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			Cement / Fly Ash Circuit
2. Stack No.			IV
3. Height of Stack (as reported)	Meter		26.2
4. Dia. of Stack at Top (as reported)	Meter		0.45
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		32.0
8. Flue Gas Temperature	°C		40.0
9. Velocity	m/sec.	IS 11255 (Part-3)	6.7
10. Volumetric Flow Rate	NM ³ /hr.		3630.6
11. Sampling Point	Meter		10.0 M.
			Limit as per EPA Notification
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	100
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	---
14. Oxides of Nitrogen (NO _x)	mg / NM ³	IS 11255 (Part-7)	---
			Concentration
			13.1
			Not detectable
			Not detectable

SHIBESHWAR PRASAD
Digitally signed by SHIBESHWAR PRASAD
Date: 2023.10.19
16:39:24 +05'30'

Verified by :
Dr. Shibeshwar Prasad
Technical Manager



Shreyasee Prasad

Digitally signed by Shreyasee Prasad
Date: 2023.10.19
16:41:09 +05'30'

Authorized Signatory
Dr. (Mrs.) Shreyasee Prasad
Quality Manager

– END OF TEST REPORT –

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Contact us : 122-C, Aastha, Road No. 5A, Patliputra Colony, Patna – 800 013 (Bihar)
Mob: +918676886249 ; +919431047908 Email : sthpatna1@yahoo.co.in ; info@shivatest.com
Website : www.shivatest.com ; www.shivatesthouse.com



SHIVA TEST HOUSE

(Serving since 1988)



TC-10582

RECOGNISED AS ENVIRONMENTAL LABORATORY BY MoEFCC, GOVT. OF INDIA, UNDER ENVIRONMENT (PROTECTION) ACT 1986, DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

TEST REPORT

Ref. No. STH/TR/23-24/5510	Dt: 19.10.2023	Your Work Order No. MANUAL/RIL/BIH	Dt: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Pradeep Kumar (Lab Representative) of Shiva Test House on 12.10.23	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	33 Humidity (%) 72
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		VSS-1 PLS	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-5510	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		13.10.23	
[o] Analysis Start Date / Analysis Completion Date		13.10.23 / 18.10.23	

Parameters	Unit	Method of Test	Results
1. Stack Connected to			DG Set 1010 KVA
2. Stack No.			V
3. Height of Stack (as reported)	Meter		9.0 m.
4. Dia. of Stack at Top (as reported)	Meter		0.15 m.
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		32.0
8. Flue Gas Temperature	°C		154.0
9. Velocity	m/sec.	IS 11255 (Part-3)	7.8
10. Volumetric Flow Rate	NM ³ /hr.		348.3
11. Sampling Point	Meter		3.5 m.
			Limit as per EPA Notification
12. Particulate Matter (P.M.)	mg / NM ³	IS 11255 (Part-1)	75.00 mg / NM ³
13. Sulphur Dioxide (SO ₂)	mg / NM ³	IS 11255 (Part-2)	Not Specified
14. Oxides of Nitrogen (NOx)	mg / NM ³	IS 11255 (Part-7)	710.00 mg / NM ³

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Verified by :
Dr. Shibeshwar Prasad
Technical Manager



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TEST REPORT

Ref. No. STH/TR/23-24/5510(A)	Dr: 19.10.2023	Your Work Order No. MANUAL/RIL/BIH	Dr: 11.06.2023
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[b] Details of Sample		Monitoring of Stack Emission	
[c] Sample Collected by		By Pradeep Kumar (Lab Representative) of Shiva Test House on 12.10.23	
[d] Sampling Location		Premises of Ramco Bihiya	
[e] Method of Sampling		IS 11255 (Part-1,2,3 & 7)	
[f] Sampling Environmental Condition		Temp. (°C)	33 Humidity (%) 72
[g] Details of Sample Container (No. & Type of Container)		Thimble & Glass Impinger	
[h] Instrument ID		VSS-1 PLS	
[i] Sample Quantity		60 ml	
[j] Sample Code		ST-5510	
[k] Sample Condition on Receipt		Fit for Analysis	
[l] Items required to be tested		As per contract	
[m] Whether any specific Method of Test has been suggested by the customer		No	
[n] Date of receiving the sample in Laboratory		13.10.23	
[o] Analysis Start Date / Analysis Completion Date		13.10.23 / 18.10.23	
Parameters	Unit	Method of Test	Results
1. Stack Connected to			DG Set 1010 KVA
2. Stack No.			V
3. Height of Stack (as reported)	Meter		9.0 m.
4. Dia. of Stack at Top (as reported)	Meter		0.15 m.
5. Draft			Natural
6. Material of Construction	---		M.S.
7. Ambient Temperature	°C		32.0
8. Flue Gas Temperature	°C		154.0
9. Velocity	m/sec.	IS 11255 (Part-3)	7.8
10. Volumetric Flow Rate	NM ³ /hr.		348.3
11. Sampling Point	Meter		3.5 m.
			Limit as per EPA Notification
12. NMHC (as C) (at 15% O ₂)	mg / NM ³	CPCB	100.00 mg / NM ³
13. Carbon Monoxide as CO (at 15% O ₂)	mg / NM ³	IS 13270 – 2003	150.00 mg / NM ³
			Concentration
			25.0
			<150

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Verified by :
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Technical Manager



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