# Ramco Industries Limited

Ref.:RIL/660/16-17/BSPCB

Date: 27/4/17

To

The Member Secretary, Bihar State Pollution Control Board (BSPCB) Parivesh Bhavan NSB-02, Patliputra Industrial Area, Patna - 800 010



Plot No. A1, BIADA Industrial Area, Opp. Mahathin Mai Temple Bihiya - 802152

Dist: Bhojpur (BIHAR)

Ph. - 06181 - 241016, 241070

Sub.: Yearly environmental statement of Form - V for the period of April 2016 to March 2017.

Sir,

With reference to above we are submitting here with the environmental statement Form – V for the period of April 2016 to March 2017, for your kind information and record please.

पाटलीपुत्रा औद्योगिक क्षेत्र, पप्टना-13

Receipt of the same may kindly be acknowledged. बिहार राज्य प्रदूषण नियंत्रण पार्षद

Thanks and Regards.

For, Ramco Industries Ltd.,

Pankaj Kumar

Encl.: 1. Form - V

Works Manager

2. Stack monitorning, water and ambinent air analysis.

3. Work zone noise level & fibre counting report.

CC: MoEF, Ranchi.

File copy.

Counter No:1,07-Code:001 TO: THE DIRECUIEK, From: THE RAYCO, BIHIA

Taxes:Rs.5.00KEDD(If not a ####### :00:40:00

HATTEMVALVE GALLY VY AVAIL GATTAN

Regd. Office: 47, P.S.K. Nagar, Rajapalayam - 626 108.

Head Office: "Auras Corporate Centre", VI Floor, 98-A, Dr. Radhakrishnan Road, Mylapore, Chennai - 600 004.

# FORM V Environmental Statement for the financial year ending 31st March 2017.

		Part A		
i) Name and address of the owner/occupier of the industions of the industry category: Primary - (STC Code) / Secondary iii) Production capacity – Units iv) Year of establishment. v) Date of the last environmental statement submitted	stry ope	RED MEDIUM 120000 MT / Year 2011 2.5.2016	P.R.VENKATRAMA RAJA RAMAMANDIRAM Tenkasi Road Rajapalayam – 626 1.17 TAMILNADU	
	20	Part B		

# Water and Raw Material Consumption

i) Water consumption m3/d

Process

Cooling

65.2 m3/day

Domestic

	Process water consumption per unit of product output (MT)				
Name of products	During the previous financial year 15-16	During the current financial year 16-13			
	(1)	(2)			
(1) Asbestos Cement Roofing Sheets & Accessories (KL/MT)	0.18	0.19			



Environmental Statement for the financial year ending 31st March 2017.

# **Raw Material Consumption**

		Consumption of raw materials per unit of output (MT)		
Name of Raw Materials	Name of Products	During the previous financial year 2015-16	During the current financial year 2016-17	
1) CEMENT		0.42	0.414	
2) FIBER	Asbestos Cement Roofing Sheets	0.082	0.082	
3) FLYASH	& Accessories	0.267	0.27	
4) PULP		0.009	0.013	

<sup>\*</sup> Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

	Part C		
C-1, WATER POLLUTION	Pollution discharged to en (Parameter as specified		
(1) Pollutants	Quantity of pollutants discharged (Kg/day)	Concentrations of pollutants in discharges (mg/lit)	Percentage of variation from prescribed standards with reasons
Water	NIL	NIL	NIL

FORM V
Environmental Statement for the financial year ending 31st March 2017.

#### C-2, AIR POLLUTION

(1) Stack Attached to	Quantity of pollutants discharged	Concentration	ns of pollutants in dis	charges (mg/m3)	Percentage of variation from prescribed standards with reasons
	(Kg/day)	PM	SO <sub>2</sub>	NO <sub>X</sub>	presentate standards with reasons
<ol> <li>Asbestos Dust Collector</li> <li>Cement Dust Collector</li> <li>Pulverizer Dust collector</li> <li>DG set 1010 KVA</li> </ol>		1.7 51.3 1.57 41.4	Not detectable Not detectable Not detectable 52.7	Not detectable 20.4 17.9 212.1	- within spec limits -
5. DG set 750 KVA		35.6	48.7	208.9	

# Part D

# Hazardous Wastes as specified under Hazardous Wastes (Management and Handling) Rules, 1989

Hazardous Waste	Total Quantity (KL)			
	During the previous financial year	During the current financial year		
Discarded asbestos containing product	NIL	NIL		
2) Used Oil	NIL	NIL		
3) Residue containing oil	3.12 (KL)	3.08 (KL)		

# FORM V Environmental Statement for the financial year ending 31st March 2017.

# Part E

### **SOLID WASTES**

	Total Quantity (MT)			
	During the previous financial year	During the current financial year		
a) From process	1046.92	987.84		
b) From pollution control facilities	Negligible	Negligible		
c) (1)Quantity recycled or re-utilized within the unit	1046.92	987.84		
(2) Sold	NA	NIL		
(3) Disposed	NA	NIL		

# Part F

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

Description	Quantity (kg)	Constituent parameter with concentrations	Method of disposal
) Broken sheets *	196.42 MT		Fully recycled
l) Used Oil	3.08 KL		Fully recycled
) Residue containing oil	NA		Fully recycled



# Part G

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

Description	Expenditur	re in lacs
	2015-16	2016-17
1) Water pollution	1,57,621.23	1,05,705
2) Air pollution	1,67,496.58	6,02,500
3) Hazardous / Solid waste management		
4) Green belt development	97312	1,82,212
5) Others	4,22,438.46	3,26,440

# Part H

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

Description	Investment Projections	Estimated cost (lacs)	Year of Installation
1) Water pollution			
2) Air pollution	Dust Collector	4.60	2016-17
3) Green belt development	Landscaping, Trees plantation		
4) Others			

# RAMCO INDUSTRIES LIMITED

### FORM V

Environmental Statement for the financial year ending 31st March 2017.

### Part I

Any other particulars for improving the quality of the environment.

- 1. We are collecting pulverized powder in jumbo bag with green color marking & recycled. It used in every batch of RM in auto mode.
- 2. We are using pulverized powder in auto feeding continuously in RM batch.
- 3. Environment cell meet with specified date (15<sup>th</sup> to 20<sup>th</sup>) on monthly basis and headed by unit head.

El Dride: Exm. (Chatterjee Lane) wan bagh





E mail sthpatna1@yahoo.co.in



Laboratory Address :-01" Floor, Rajhans Niketan, Near Canal, Rukunpura,

Bailey Road,

COMSED AS ENVIRONMENTAL LABORATORY BY CENTRAL GOVT, UNDER ENVIRONMENT (PROTECTION ) ACT 1986 (VALID UPTO MAR. 2018), DESTE OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

# TEST REPORT

	Report to be submitted to Details of Sample Sample Collected by		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152		
Ь				neral Manager (W	orks)
[c]				ing of Stack Emissi	
[d]			SHIVA	TEST HOUSE on	31.03.17
			Thimble	e & Glass Impinge	#
	Items required to be tested		As per	contract	
	Whether any specific Method of Jest has been suggested by the party		No		
[h]	Date of receiving the sample	01.04.17			
	Parameters	Method	of Test		Results
1.	Stack Connected to			F.	bre Circuit
2.	Stack No.				
	Height of Stack (as reported)				30.0 m.
	Dia of Stack at Top (as reported)				0.4 m.
	Draft				Natural
6	Material of Construction				M.S.
7.	Ambient Temperature, <sup>©</sup> C				26.0
8	Flue Gas Temperature, <sup>9</sup> C				59.0
	Velocity, m/sec.	IS 11255	(Part-3)	5.1	
	Volumetric Flow Rate ( NM3/hr.)				2069 8
	Sampling Point				10 m.
				Concentration ( mg / NM <sup>3</sup> )	Limit as per E (P. Rules Schedule I
12.	Particulate Matter (P.M.)	IS 11255	(Part-1)	1.7	2.0 mg / NM <sup>9</sup>
13	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255	(Part-2)	Not Detectable	-1141
14.	Oxides of Nitrogen (NO <sub>2</sub> )	IS 11255	(Part-7)	Not Detectable	NAME OF TAXABLE PARTY.



Authorized Signatory Quality Manager / Dy. Quality Manager



Laboratory Address:-01" Floor, Rajhans Niketan, Near Canal, Rukunpura, Bailey Road, Patna - 800 014 (Bihar)





: 0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705 E.mail.. sthpatna1@yahoo.co.in

DESTR. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT, OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

#### TEST REPORT

	ef No. RH./TR/16-17/543(g) Dt: 05.04	<i>6.2017</i> Your	Work Order	No. MANUAL/RI	L/BIH/12 Dt : 28.12.201	
a	C.		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[6]			Sr. Ge	neral Manager (V	Vorks)	
	Details of Sample			ring of Stack Emiss		
	Sample Collected by			TEST HOUSE o		
	No. & Type of Container		Thimb	le & Glass Imping	er	
[f]	Items required to be tested		As per	contract		
(B)	Whether any specific Method of Test has been suggested by the party		No			
[h]	Date of receiving the sample	01.04.17		17		
	Parameters	Method of Test		Results		
1.	Stack Connected to			Cement / Fly Ash Circuit		
2.	Stack No.				11	
3.	Height of Stack (as reported)				15.0 m.	
4.	Dia of Stack at Top (as reported)				0.4 m	
5.	Draft				Natural	
6	Material of Construction				M.S.	
	Ambient Temperature, °C	5		26.0		
	Flue Gas Temperature, °C			53.0		
9	Velocity, m/sec.	IS 11255	5 (Part-3)	5.8		
10.	Volumetric Flow Rate ( NM3/hr )			2397.2		
11.	Sampling Point			111111111111111111111111111111111111111	5 m	
				Concentration (mg/NM³)	Limit as per E () Rules Schedule t	
12	Particulate Matter (P.M.)	IS 11255	(Part-1)	51.3	100.00 mg / NM <sup>3</sup>	
	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255	(Part-2)	Not Detectable		
14.	Oxides of Nitrogen (NO <sub>2</sub> )	IS 11255	(Part-7)	20.4	700	



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#### TEST REPORT

la [	Name and address of the Customer		Plot N Bihiya	O INDUSTRIES L o. A 1, BIADA Ind I ur – 802 152	
[b]	Report to be submitted to		Sr. Ge	neral Manager (W	(orks)
[0]	Details of Sample			ring of Stack Emiss	
[d]	Sample Collected by			TEST HOUSE or	
[e]	No. & Type of Container		Thimb	le & Glass Impinge	er
			As per	contract	
	Whether any specific Method of To been suggested by the party	est has	No		
h	Date of receiving the sample		01.04.	17	
	Parameters	Metho	d of Test		Results
1.	Stack Connected to			Pul	veriser Plant
2	Stack No.				111
	Height of Stack (as reported)				15 0 m.
4	Dia of Stack at Top (as reported)				0.15 m.
	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 1125	5 (Part-3)		5.3
10.	Volumetric Flow Rate ( NM3/hr.)				305.2
11	Sampling Point				5 m.
			- 10 W 10 W	Concentration ( mg / NM³)	Limit as per E(P) Rules Schedule I
12.	Particulate Matter (P.M.)	IS 1125	5 (Part-1)	1.57	2.0 mg/NM <sup>3</sup>
13.	Sulphur Dioxide (SO <sub>2</sub> )	IS 1125	5 (Part-2)	Not Detectable -	
14.	Oxides of Nitrogen (NOx)	IS 1125	5 (Part-7)	17.9	***



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# SHIVA TEST HOUSE

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# TEST REPORT

Ref. No. RIL/TR/16-17/543(i) Dt : 05.04.2017 Your Work O			RAMCO INDUSTRIES LTD.		
Name and address of the Customer		Plot No. A 1, BIADA Industrial Area			
		Bihiya Bhojpur – 802 152			
[c] Details of Sample	***************************************	Monit.	eneral Manager (\ oring of Stack Emis	Norks)	
[d] Sample Collected by		SHIV	A TEST HOUSE of	sion	
[e] . No. & Type of Container		Thim	ole & Glass Imping	on 31,03,17	
[f] Items required to be tested			r contract	[0]	
whether any specific Method of Test has		No	Contract		
[h] Dota of south at the second of the secon		01.04	01.04.17		
Parameters	Method o	The second secon	17		
Stack Connected to	method (	n rest	50	Results	
2. Stack No.			DG	Set 1010 KVA	
<ol> <li>Height of Stack (as reported)</li> </ol>				IV .	
4. Dia of Stack at Top (as reported)				9.0 m.	
5. Draft				0.15 m.	
6. Material of Construction				Natural	
7. Ambient Temperature, °C				M.S.	
B. Flue Gas Temperature, <sup>0</sup> C	1		26.0		
Velocity, m/sec.	IS 11255 (I	Part-3)	176.0		
Volumetric Flow Rate ( NM³/hr.)			8.1 341.8		
Sampling Point				3.5 m.	
			Concentration	Limit as per E (P.	
2 D-12 1			( mg / NM³ )	Rules Schedule I	
2. Particulate Matter (P.M.)	IS 11255 (F		41.1	75.00 mg / NM <sup>3</sup>	
3. Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (F		52.7	Not Specified	
4. Oxides of Nitrogen (NOx)	IS 11255 (F	Part-7)	212.1	710.00 mg / NM <sup>3</sup>	
5. NMHC (as C) (at 15% O <sub>2</sub> )	CPCB		21.0	100.00 mg/NM	
<ol> <li>Carbon Monoxide as CO (at 15% O<sub>2</sub>)</li> </ol>	IS 13270 -	2003	38.0 -	150.00 mg / NM <sup>3</sup>	



Authorized Signatory
Quality Manager / Dy. Quality Manager

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NAME OF THE OWNER, OWNE



0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705 E.mail.: sthpatna1@yahoo.co.in

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BY DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

## TEST REPORT

[a] <sub>4</sub>	] - Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[6]	Report to be submitted to	Report to be submitted to		neral Manager (W	orks)	
0	Details of Sample		Monitor	ing of Stack Emissi	on	
[d]-	Sample Collected by		SHIVA	TEST HOUSE on	31.03.17	
e)	No. & Type of Container		Thimble	e & Glass Impinge	er	
1	Items required to be tested		As per	contract		
[g]	Whether any specific Method of Tes been suggested by the party					
h	Date of receiving the sample		01.04.1	7		
	Parameters	Method of Test		Results		
1.	Stack Connected to			DG S	Set 750 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	
5	Material of Construction				M.S.	
7.	Ambient Temperature, °C				26.0	
8.	Flue Gas Temperature, <sup>0</sup> C			169.0		
9.	Velocity, m/sec.	IS 11255	(Part-3)	7.9		
10.	Volumetric Flow Rate (NM3/hr.)				338.6	
11.	Sampling Point				3.5 m.	
Ж				Concentration (mg/NM³)	Limit as per E (P. Rules Schedule 1	
12.	Particulate Matter (P.M.)	IS 11255	(Part-1)	35.6	75.00 mg / NM <sup>3</sup>	
13.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255	(Part-2)	48.7	Not Specified	
14.		IS 11255	(Part-7)	208.9	710.00 mg / NM <sup>3</sup>	
15.	NMHC (as C) (at 15% O <sub>2</sub> )	CP	CB	15.0	100.00 mg / NM <sup>3</sup>	
16.	Carbon Monoxide as CO (at 15% O <sub>2</sub> )	IS 13270	- 2003	33.0	150.00 mg/NM3	



Authorized Signatory Quality Memager (Dv. Quality Manager

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# TEST REPORT

Re	f. No. RIL/TR/16-17/543(k)	Dt: 05.04.2017 Y	our Work C	Order No. A	IANUAL/RI	I /BTH/to the	20 12 2012
[a]	Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152				
[6]	Report to be submitted to						
	Details of Sample		or. Gerre	rai Wanag	ier (Works)		
[d]	Sample Collected by		Worlton	ing of Am	bient Air Q	uality	
[e]	No. & Type of Container		SHIVA	ESTHOU	SE on 31.0	3.17	
[f]	Items required to be teste	4		per ; Glass	Impinger		1111111
[g]			As per co	ontract			
	Whether any specific Met Test has been suggested	by the party	No		***************************************		
[h]	Date of receiving the sam	ple	01.04.17				
		8.0 - 11 - 1		S	ampling Sta	tion	T-111-111-1
	Parameters	Method of Test	Near Office	Near Rear Gate	Near Stripping Area	Near Laboratory	Limit as NAAQS
1. Par	1. Particulate Matter (PM <sub>10</sub> ), µg / m³ IS 5182 (Part		56.1 52.9	70.0 60.2	73.1 69.8	65.1 57.4	Nov. 2009
	and the second s		45.7 32.0	54.7	65.5	56.4	and the second second
2 Part	iculate Matter (PM <sub>2.5</sub> ), µg / m <sup>3</sup>	USEPA	26.2	40.4 35.2	38.1	36.5	
			24.7	28.6	35.6 32.1	30.0	60 μg / m <sup>3</sup>
			17.9	24.0	26.8	27.4	
			19.6	28.1	29.3	20.0	
. Sulp	hur Dioxide as SO <sub>2, µg / m³</sub>	IS 5182 (Part-2)	21.3	21.5	31.9	18.3	80 μg / m³
		1 2 2 1 2 2 2	15.3	17.4	24.2	15.7	
			13.6	13.2	21.5	13.9	
			17.1	19.9	19.8	17.4	
			24.9 29.0	37.7	43.7	37.4	
Mitro	gen Dioxido es NO		31.5	36,2	45.6	39.4	
- INIU O	gen Dioxide as NO <sub>2</sub> , μg / m³	IS 5182 (Part-6)	23.9	32.4 29.3	47.6	31.5	80 jig / m³
			22.1	27.7	41.7	28.9	av lig rill
		T. D. HILLSON	24.6	30.6	39.1 37.8	27.2 30.8	
verage	Value	100			77.0	50,8	
	PM <sub>10</sub>		Edic	04.0			
	PM <sub>2.5</sub>		51.6 27.6	61.6	69.5	59.6	
	SO <sub>2</sub>	+	17.5	34.7 20.7	35.3 25.6	31.3	
	007					18.7	

Authorized Signatory

Quality Manager / Dy. Quality Manager

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#### TEST REPORT

[a]	1.			RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152				
[6]	The state of the s			Sr. Genera	l Manager	(Works)		
[c]					of Ambient 2	tir Omolite		
[d]	Sample Collected by	SHIVA TES	ST HOUSE	on: 31.03.17	7			
	No. & Type of Container							
	Items required to be tested			Filter Paper : Glass Impinger As per contract				
[g] Whether any specific Method of Test has been suggested by the party				No				
[h]	Date of receiving the sample	9	(	01.04.17				
		Method of		Sampling Station Lim				
	Parameters	Test	Near Office	Near	Near Stripping Area	Near Laboratory	EPA Notification	
1: (	Carbon Monoxide (CO) , µg / m <sup>3</sup>	IS 5182 (Part-10)	56.0	81.0	BDL	BDL	(μg/m³) 4000 μg/m³	
2. L	ead (Pb) , μg / m <sup>3</sup>	IS 5182 (Part-22)	BDL	BDL	BDL	BDL		
3. A	mmonia as NH <sub>3</sub> , µg / m <sup>3</sup>	IS 5182 (Part-5)	NIL	NIL	NIL	NIL	1 μg / m <sup>3</sup>	
1. 0	zone (O <sub>3</sub> ) , μg / m <sup>3</sup>	IS 5182 (Part-9)	19.6	39.2	BDL	JI OL	400 μg / m <sup>3</sup>	
В	enzene (C <sub>6</sub> H <sub>6</sub> ) , µg / m <sup>3</sup>	IS 5182 (Part-22)	BDL	BDL	BDL	BDL BDL	180 μg / m <sup>3</sup>	
	rsenic (As), ng / m3	AAS Method	BDL	BDL	BDL		5 µg / m <sup>2</sup>	
	ickel as Ni, ng / m <sup>3</sup>	AAS Method	BDL	BDL	BDL	BDL	6 ng / m <sup>3</sup>	
				1.31.77	Tent 3 . 5.1	4-24 17	THE AMERICAN ASSESSMENT OF THE PARTY OF THE	



Authorized Signatory Quality Manager / Dy. Quality Manager

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Tel: 0512 - 2247538/ 2240752 ; TeleFax: 0612 - 2590705 E.mail: sthpatna1@yahoo.co.in Laboratory Address:-01" Floor, Rajhans Niketan, Near Canal, Rukunpura, Bailey Road, Patna – 800 014 (Bihar)



ISO 18001:2007 OHSAS Certified

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LEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

# TEST REPORT

[u]	Name and address of the Customer		Plo Bih	nt No. A niya	DUSTRIES 1, BIADA I 802 152	LTD. ndustrial A	rea	
[b]	Report to be submitted to			Sr.	Genera	Manager (	Works)	
	Details of Sample					of Ambient A		
	Sample Collected by			SHIVA TEST HOUSE on 31.03.17				
	No. & Type of Container			Filter Paper ; Glass Impinger				
	Items required to be tested			As per contract				
[g]	Whether any specific Metho been suggested by the party	od of Test has		No				
	Date of receiving the sample			01.0	04.17			
					S	ampling Sta	ation	Limit as per
Parameters Method of Test			Near Office	70	Near Rear Gate	Near Stripping Area	Near Laboratory	EPA Notification ( µg / m³ )
	Benzo (a) Pyrene, (Particulate Phase only) ng / m <sup>3</sup> IS 5182 (Part-10)				<0.1	< 0.1	< 0.1	1.0 ng / m <sup>3</sup>



Authorized Signatory Quality Manager Dr. Quality Manager

In report applies only to sample tested as above

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COLUMN STREET





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# TEST REPORT

[a]	Name and address of the		Plot No Bihiya	Order No. MANUAL/RIL/BIH/12 Dt : 28.12.2012  RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b]	Report to be submitted to			neral Manager (Work	(5)		
[c]	Details of Sample			ell Water (Near Gode			
[d]	Sample Collected by			TEST HOUSE on 3			
[e]	No. & Type of Container			bly Jar & Glass Bottle			
[f]	Items required to be teste	d		contract			
[g]	Whether any specific Methoden suggested by the pa	ned of Test ha					
[h]	Date of receiving the same	ple	01.04.1	17			
		Limit as per IS 10500 : 2012			Results in mg/l.		
S.N.	Parameters	Limit (mg/l.) Desirable	Permissible Limit in the absence of alternative source	Method of Test	except colour, Odour, Taste, Turbidity, & pH		
1 "	Colour	5 0 Hazen Limit	25	IS 3025 (Part-4)	<5.00		
	Odour	Unobjectionable		IS 3025 (Part-5)	Odourless		
	Taste	Agreeable		IS 3025 (Part-7))	Agreeable		
4	pH	6.5 to 8.5	**	IS 3025 (Part-11)	7.2		
5	Turbidity on NTU	1.00	5.00	IS 3025 (Part-10)	<1.		
6	Total Dissolved Solids (TDS)	500.00	2000.00	IS 3025 (Part-15)	417.		
7	Total Hardness as CaCO <sub>3</sub>	200.00	600.00	IS 3025 (Part-21)	284		
8	Calcium as Ca	75.00	200.00	IS 3025 (Part-40)	52		
	Magnesium as Mg	30.00	100.00	IS 3025 (Part-40)	36.		
10	Iron as Fe	0.30	No relaxation	IS 3025 (Part-53)	0.1		
11	Residual Free Chlorine	0.20	1.00	IS 3025 (Part-26)	<0.		
12	Total Alkalinity as CaCO <sub>3</sub>	200.00	600.00	IS 3025 (Part-23)	304.0		
13	Chloride as Cl	250.00	1000.00	IS 3025 (Part-32)	24.0		
4	Sulphate as SO <sub>4</sub>	200.00	400.00	IS 3025 (Part-24)	18		
	Nitrate as NO <sub>3</sub>	45.00	No relaxation	IS 3025 (Part-34)	4.8		
	Fluoride as F	1.00	1.50	APHA (4500 F D)	0.18		



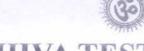
Quality Manager / Dy. Quality Manager

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Laboratory Address:-01" Floor, Rajhans Niketan, Near Canal, Rukunpura, Bailey Road, Patna - 800 014 (Bihar)



Tel: 0612 - 2247538/ 2240752 ; TeleFax: 0612 - 2590705 E.mail.: sthpatna1@yahoo.co.in

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#### TEST REPORT

	Nar	me and address of t	the Customer	RAMCO INDUS Plot No. A 1, BI Bihiya Bhojpur – 802	ADA Industrial Area		
[b]	Rep	ort to be submitted	to	Sr. General Mar	nager (Works)		
[c]	Details of Sample			Borewell Water			
[d]	Sample Collected by			SHIVA TEST HO	SHIVA TEST HOUSE on 31.03.17		
	No. & Type of Container			One sterilized gl	ass bottle		
	Iten	ns required to be te	sted	As per contract			
[9]		Whether any specific Method of Test has been suggested by the party		No			
[h]	Dat	e of receiving the s	ample	01.04.17			
		BACTER	OLOGICAL EXAMIN	ATION OF WATER AS PER IS 1	622 - 1981		
Colification of 50	orm ( ) ) ml., 5	Most Probable Num 5 tubes of 10 ml. an	ber of Organisms d 5 tubes of 1 ml.	per 100 ml. of sample and c	onfidence limit using 1 tube		
	nla	Media Strength	No. of Tubes	Observation for Acid / Ga	as formation at 37 °C after		
	mple   Media Strength   No. of Tubes		24 Hr.	. 48 Hr.			
50 m	l.	Double Strength	1	-	-		
0 m	do 5		943	-			
ml		Single Strength	5	_			



Result - MPN Organisms Values - Not Detected in 100 ml. ( Limit . Shall not be Detectable in 100 ml. )

Quality Manager Dy. Quality Manager

This report applies only to sample tested as above

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SHIVA TEST HOUSE

Near Canal, Rukunpura, Bailey Road, Patna – 800 014 (Bihar)





Tel.: 0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705 E.mail.: sthpatna1@yahoo.co.in

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### TEST REPORT

	*				RAMCO INDUSTRIES LTD.			
[a]	Name and address of the		Plot No. Bihiya	A 1, BIADA Industr - 802 152	rial Area			
[b]	Report to be submitted to		Sr. Gene	ral Manager (Works				
[6]	Details of Sample				Water from Canteer			
[d]	Stimple Collected by				EST HOUSE on 31.			
[e]	No. & Type of Container				Jar & Glass Bottle			
H	Items required to be tested	d		As per co	ontract			
[9]	Whether any specific Methoden suggested by the pa	nod of Test ha	S	No				
[h]	Date of receiving the samp	ple		01.04.17				
		Limit as per IS 10500		00:2012		Results in mg/l.		
S.N.	Parameters	Limit (mg/l.) Desirable	in the at	sible Limit bsence of live source	Method of Test	except colour, Odour, Taste, Turbidity & pH		
3	Colour	5 0 Hazen Limit	25		IS 3025 (Part-4)	<5.00		
2	Odour	Unobjectionable			IS 3025 (Part-5)	Odourles		
3	Taste	Agreeable			IS 3025 (Part-7))	Agreeable		
d	pH	6.5 to 8.5	**		IS 3025 (Part-11)	7.1		
	Turbidity on NTU	1.00	5.00		IS 3025 (Part-10)	<1.0		
	Total Dissolved Solids (TDS)	500.00	2000.	00	IS 3025 (Part-15)	268.		
	Total Hardness as CaCO <sub>3</sub>	200.00	600.0	0	IS 3025 (Part-21)	168.		
8	Calcium as Ca	75.00	200.0	0	IS 3025 (Part-40)	36.		
9.	Magnesium as Mg	30.00	100.00	0	IS 3025 (Part-40)	18.		
10	Iron as Fe	0.30	No rela	xation	IS 3025 (Part-53)	0.1		
1	Residual Free Chlorine	0.20	1.00		IS 3025 (Part-26)	<0.		
2	Total Alkalinity as CaCO <sub>3</sub>	200.00	600.00	0	IS 3025 (Part-23)	200.0		
	Chloride as CI	250.00	1000.0	00	IS 3025 (Part-32)	14 (		
4	Sulphate as SO <sub>4</sub>	200.00	400.00	)	IS 3025 (Part-24)	12.0		
15	Nitrate as NO <sub>3</sub>	45.00	No relax	cation	IS 3025 (Part-34)	3.0		
6	Fluoride as F	1.00	1.50		APHA (4500 F D)	0.13		



Authorized Signatory
ality Manager Dy Quality Manager

This report applies only to sample tested as above

<sup>2</sup> Total Liability of our Laboratory is limited to invoiced amount

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SHIVA TEST HOUSE

Bailey Road Patna - 800 014 (Bihar)



Tel.: 0612 - 2247538/ 2240752 : TeleFax : 0612 - 2590705 E.mail.: sthpatha1@yahoo.co.in

C NISED AS ENVIRONMENTAL LABORATORY BY CENTRAL GOVT. UNDER ENVIRONMENT (PROTECTION) ACT 1986 (VALID UPTO MAR. 2018), DEPT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

#### TEST REPORT

Kel No. RIL/TR/16-17/543(c) Dt: 05.04.2017 Your Work Order No. MANUAL/RIL/BIH/12 Dt: 28.12.2012

Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152
Report to be submitted to	Sr. General Manager (Works)
Details of Sample	Drinking Water from Canteen Aquaguard
Sample Collected by	SHIVA TEST HOUSE on 31.03.17
No. & Type of Container	One sterilized glass bottle
Items required to be tested	As per contract
Whether any specific Method of Test has been suggested by the party	No
Date of receiving the sample	01.04.17
	Report to be submitted to Details of Sample Sample Collected by No. & Type of Container Items required to be tested Whether any specific Method of Test has been suggested by the party

BACTERIOLOGICAL EXAMINATION OF WATER AS PER IS 1622 - 1981

Coliform ( Most Probable Number of Organisms per 100 ml. of sample and confidence limit using 1 tube of 50 ml., 5 tubes of 10 ml. and 5 tubes of 1 ml.)

Sample	Media Strength	No. of Tubes	Observation for Acid / Gas formation at 37 °C after			
30.00000	30.23000 S.0.403(6)		24 Hr.	48 Hr		
	Double Strength	1	-	3.90.1.00		
	do	5				
	Single Strength	5				

Result - MPN Organisms Values -- Not Detected in 100 ml. ( Limit : Shall not be Detectable in 100 ml.)

Onality Manager Dr. Onality Manager

les enort applies only to sample tested as above.

hetal Liability of our Laboratory is limited to invoiced amount

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MISELLAS ENVIRONMENTAL LABORATORY BY CENTRAL GOVT, UNDER ENVIRONMENT (PROTECTION) ACT 1986 (VALID UPTO MAR. 2018), OF INDUSTRY, FORESTS & ENVIRONMENT, GOYT, OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

#### TEST REPORT

Re	Name and address of the Custo	amer		CO INDUSTRIES L No. A 1, BIADA Inc				
	South Control of the Control	Bihiy	Bihiya Bhojpur – 802 152					
	Report to be submitted to		Sr. G	ieneral Manager (W	(orks)			
[2]	Details of Sample		Efflue	nt Sample from Final	Discharge Point			
[d]	Sample Collected by		SHIV	A TEST HOUSE or	1 31.03.17			
e	No. & Type of Container			Plastic Bottle				
	items required to be tested		As pe	er request				
	Whether any specific Method obeen suggested by the party	of Test has	No		R			
	Date of receiving the sample		01.04	1.17				
S. N.	Parameters	Method Test	i of	Limit as per E (P) Rules Schedule VI	Result(in mg/l.) except pH, Colour			
	Calour	IS 3025 (F	art-4)	Not Specified	Colourless			
	DH	IS 3025 (P	art-11)	5.5 to 9.0	7.1			
	Suspended Solids	IS 3025(Pa	art-17)	100.00	61.0			
	Oil & Grease	IS 3025 (P	art-39)	10.00	<1.(			
i	B.O.D.(3 days at 27°C)	IS 3025 (Pa	art-44)	30.00	22.0			
	C O D	APHA 52	20 B	250.00	112.0			
	Dissolved Phosphate as P	APHA ( 450	0-P-D)	5.00	1.4			
	Fluoride as F	APHA 4500	(FD)	5.00	0.41			
	Ammonical Nitrogen as N	IS 3025 (Pa	art-34)	50.00	. 14.7			
0	Total Kjeldahl Nitrogen as N	APHA (4500 N org)		100.00	. 14.7			



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Bailey Road, Patna - 800 014 (Bihar)





# SHIVA TEST HOUSE

Tel.: 0612 - 2247538/ 2240752; TeleFax: 0612 - 2590705 E.mail.: sthpatna1@yahoo.co.in

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IN DEPTT OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT, OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD

#### TEST REPORT

	Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152	
[6]	Report to be submitted to	Sr. General Manager (Works)	
[c]	Details of Sample	Monitoring of Ambient Noise Level	
[d]	Monitored by	SHIVA TEST HOUSE on 31.03.17	
	Whether any specific Method of Test has been suggested by the party	No	
	Sampling Location	Time Weighted Average (TWA) of Noise Level in dB(A)	
1.	Near Main Gate	59.1	
2	Near Office	55.7	
	Near Stripping Area	61.4	
4	Near Fibre Mill	64.3	
5.	Near DG Room	71.4	

against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.



Authorized Signatory Quality Menuger : Dy. Quality Manager

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# TR LABS

# **ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES**

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

02.02.2017

# REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project

M/s. RAMCO INDUSTRIES Ltd.,

PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE

AT & PO-BIHIYA, DT - BHOJPUR, BIHAR, PIN-802152.

Sampler used

: Samples collected by J R Labs using Analyzed under : Olympus make, Japan,

Spectro: SLE-PS-154:II.

B X 40 Phase Contrast

SKCAirLite & Casella T13180-II

Microscope

Flow rate

1.0 LPM

Specifications

: As per A LA - RTM1

Sampling Duration

60 minutes each -

(IS: 11450) Membrane

Filter Method

# PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. Date of No. Sampling	Location	Condition	Dust* Concentration fibre/ee of air	Remarks
19.01.2017	Static Fibre Godown	Fibre bags were stored properly. Torn bags are sealed. Different Grades of Fibre bags are stored in the Fibre Godown.	< 0.1 (0.060)	
2 [9.01,2017	Personal BOD-ERMIII	The worker carrying the Sampler was feeding fibre bags through the Roller Conveyor. E R Mill and Dust Collector in operation.	< 0.1 (0.096)	
19.01.2017	Static  E R Mill – Hydro disintegrator	The Static Sample is collected from near E R Mill – Hydro disintegrator during the production of F C C Sheets. E R Mill in Operation.	< 0.1 (0.072)	525

For JR LABS



Environmental Hygienist

# 8/3/15 & 309, Vasudha Apartments, 2 All ubullapur Road, New Jeedimetla, HIDERABAD - 500 067, TELENGANA, INDIA.



**2** : 040-42300546, 27230750, 27230966

Fax: 040-23775321

E-mail: irlabs@rediffmail.com

irlabs@gmail.com jr.labs@yahoo.in



# **ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES**

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

02.02.2017

# REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project

: M/s, RAMCO INDUSTRIES Ltd.,

PLOT NO.A-L BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE

AT & PO-BIHIYA, DT.-BHOJPUR, BIHAR, PIN-802152

Sampler used

Flow rate -

Samples collected by J. R. Labs

Analyzed under: Olympus make, Japan,

using Envirotech - I.

B X 40 Phase Contrast

Casella T13180 - 1 & Casella AFC 123

Microscope

LOLPM

Specifications . : As per A I A - R T M I

Sampling Duration :

60 minutes each

(IS: 11450) Membrane

Filter Method

# PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

SI. No.	Date of Sampling	Location	Condition	Dust Concentration fibre/cc of air	Remarks
4	19.01.2017	Personal S F Drum - Cutter Off	The worker carrying the Sampler was cutting the Sheets at Green Stage on main Machine along with another worker.	< 0.1 (0.048)	
	19.01.2017	Static Stripping	The Static Sample is collected during the stripping of F C C Sheets. Plant was in production of F C C Sheets.	< 0.1 (0.076)	
	19:01.2017	Personal M G section - Moulding	The worker carrying the Sampler was making R1 & R2 types of moulded articles during the period of Sampling. Semi wet process.	< 0.1 (0.052)	Heat

For LR LABS



Environmental Hygienist

# B-305 & 309, Vasudha Apartments, Outhubullapur Road, New Jeedimeila, HYDERABAD - 500 067. FELENGANA, INDIA.



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E-mail: jrlabs@rediffmail.com irlabs@gmail.com ir.labs@yahoo.in



# **IR LABS**

# **ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES**

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine. Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

02.02.2017

# REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project

M/s. RAMCO INDUSTRIES Ltd.,

PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE

AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used

Flow rate

Samples collected by J R Labs

using S K C Side Kick 51 Ex.

Casella T13180 - II &

Envirotech - H

1.0 L P M

Sampling Duration :

Analyzed under: Olympus make, Japan,

B X 40 Phase Contrast

Microscope

Specifications

: As per A I A - R T M I

(18: 11450) Membrane

Filter Method

# PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

SI. No.	Date of Sampling	Location	Condition	Dust Concentration fibre/cc of air	Remarks
7	19.01.2017	Personal Salvaging Section	The worker carrying the Sampler was reclaiming the Sheets. F C C rejected Sheets were getting reclaimed. Wet process.	< 0.1 (0.092)	
8	19.01.2017	Personal Ball Mill	The worker carrying the Sampler was engaged in operation of Ball Mill Wet process.	< 0.1 (0.040)	
	19.01.2017	Personal Pulverizer	The worker carrying the Sampler was feeding broken F C C Sheets through the chute of Pulverizer.	' < 0.1 (0.088)	1255

For JR LABS

Environmental Hygienist



jr.labs@yahoo.ic



# IR LABS

# **ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES**

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine. Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

# REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project

: M/s. RAMCO INDUSTRIES Ltd.,

PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE

AT & PO-BIHIYA, DT.-BHOJPUR, BIHAR, PIN-802152

Sampler used

Flow rate

Samples collected by J R Labs

Analyzed under: Olympus make, Japan,

using S K C 224-PCXR8:II &

B X 40 Phase Contrast

: 1.0 L P M

Specifications

: As per A I A - R T M 1

Sampling Duration: 60 minutes each

(IS: 11450) Membrane

Filter Method

Microscope

# PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

SI. No	Date of Sampling	Location	Condition	Dust Concentration fibre/ce of air	Remarks
10	19.01.2017	Personal Fork Lift Operator	The Fork Lift Operator carrying the Sampler was engaged in different work activities like; shifting of Sheets from Destacking Area to Stock Yard during the period of sampling.	< 0.1 (0.016)	
	19.01.2017	Personal Q C Lab Assistant	The Q C Lab Assistant carrying the Sampler was engaged in different Lab activities during the period of Sampling.	< 0.1 (0.088)	

For JR LABS

**Environmental Hygienist** 

# 8-305 & 309, Vasudha Apartments, Conhubullapur Road, New Jeedimetta, TYDERABAD - 500 067, ELENGANA, INDIA.



: 040-42300546, 27230750, 27230968

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# **ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES**

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

# REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project v"

: M/s. RAMCO INDUSTRIES Ltd.,

PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP, MAHATHIN MAI TEMPLE

AT & PO-BIHIYA, DT.-BHOJPUR, BIHAR, PIN-802152

Sampler used

: Samples collected by J R Labs using

Spectro: SLE-PS-154:III

Analyzed under: Olympus make, Japan,

B X 40 Phase Contrast

Microscope

Flow rate

: 1.0 L P M

Specifications

: As per A I A - R T M I

Sampling Duration: 60 minutes

(IS: 11450) Membrane

Filter Method

# PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)

AS PER MoEF & P C B = 0.1 fibre per cc of air.

SI. No.	Date of Sampling	Location	Condition	Dust Concentration fibre/cc of air	Remarks
12	19.01.2017	Static	The Static Sample is collected		
		Work Zone Area of the Plant  during the production of F C C Sheets.	< 0.1 (0.032)		

For JR LABS

Environmental Hygienist

# B-305 & 309, Vasudha Apartments, Quthubullapur Road, New Jeedimetia, HYDERABAD - 500 087, I E I E N G A N A . I N D I A .



T : 040-42300546, 27230750, 27230966 Fax: 040-23775321

E-mail: jrlabs@rediffmail.com irlabs@gmail.com

jr.labs@yahoo.in



# **ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES**

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine. Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

02.02.2017

# REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project

M/s. RAMCO INDUSTRIES Ltd.,

PLOT NO.A-1. BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE

AT & PO-BIHIYA, DT.-BHOJPUR, BIHAR, PIN-802152

Sampler used

: Samples collected by J R Labs using

Analyzed under: Olympus make, Japan,

Spectro: SLE-PS-154:1,

B X 40 Phase Contrast

S K C 224-PCXR8:1 &

Microscope

Envirotech – H

Flow rate

1.0 L P M

Specifications

: As per AIA - RTM1

Sampling Duration : 60 minutes each

(IS: 11450) Membrane

Filter Method

# PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

SL No.	Date of Sampling	Location	Condition	Dust Concentration fibre/ee of air	Remarks
13	19.01.2017	Static Ambient Air: Stock Yard- Sheet Loading Area	The Static Sample is collected from Stock Yard - Sheet Loading Area during loading of different sizes of F C C Sheets into the Truck.	< 0.1 (0.056)	***
14	19.01.2017	Static Ambient Air: Near Main Gate	The Static Sample is collected from near the Main Gate. Plant was in operation.	< 0.1 (0.028)	
	19.01.2017	Static Ambient Air :- Near Canteen	The Static Sample is collected from near Canteen. Plant was in operation.	< 0.1 (0.064)	

For JR LABS

**Environmental Hygienist** 

B-305 & 309, Vasudha Apartments. Outhubullapur Road, New Jeedimetla. WOERABAD - 500 067. TELENGANA, INDIA.





2 : 040-42300546, 27230750, 27230966

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# **ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES**

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

T C : January'17 - Stack - E R M - A F C :

02.02.2017

# REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

# FIBRE DE STACK

Project

: M/s. RAMCO INDUSTRIES Ltd.,

PLOT NO.A-L BIADA INDUSTRIAL AREA OPP, MAHATHIN MAI TEMPLE

AT & PO-BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used

: Envirotech VSS1

Analyzed under : Olympus make, Japan,

B X 40 Phase Contrast

Microscope

Flow rate

IOLPM

Sampling Duration : 10 minutes

Specifications

: As per A I A - R T M I

(18:11450) & ISO:10397

Membrane Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.2 fibre per cc of air.

Date of sampling	Location	Condition	Dust concentration fibre/cc of air	Remarks
19.01.2017	Fibre D E Stack			
	connected to B O D &  Edge Runner Mill	b	(0.053)	
		y.		

For LR LABS :

S COMMO

Environmental Hygienist

# 8-305 & 309 Vasudha Apartments, Computational Road, New Jeedimetia, MYDERABAD - 500 067, TELENGANA, INDIA.



2 040-42300546, 27230750, 27230966 Fax : 040-23775324 E-mail : jrlabs@rediffmail.com jrlabs@gmail.com jr.labs@yahoo.in



# IR LABS

# ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

I C : January'17 - Stack - ERM - AFC:

02.02.2017

# REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

# FIBRE DE STACK

Project

M/s. RAMCO INDUSTRIES Ltd.,

PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE

AT & PO-BIHIYA, DT.-BHOJPUR, BIHAR, PIN-802152

Sampler used

: Envirotech VSS1

Analyzed under: Olympus make, Japan,

B-X 40 Phase Contrast

Microscope

Flow rate

Sampling Duration: 10 minutes

Specifications

: As per A J A - R T M 1

(IS:11450) & ISO:10397

Membrane Filter Method

# PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & PCB = 0.2 fibre per ec of air.

Date of sampling	Location	Condition	Dust concentration fibre /cc of air	Remarks
19.01.2017	Fibre D E Stack connected to Pulverizer		0.103	
		-	0.110	

For JR LABS

Environmental Hygienist

U 305 & 309, Vasudha Apartments. Sernabullapur Road, New Jeedimetla, HYDERABAD - 500 067. TELENGANA, INDIA.



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# Ramco Industries Limited

Ref.:RIL/ 172/16-17/CPCB

Date: 2.5.16



Plot No. A1, BIADA Industrial Area, Opp. Mahathin Mai Temple Bihiya - 802152

Dist: Bhojpur (BIHAR)

Ph. - 06181 - 241016, 241070

To

The Member Secretary,
Bihar State Pollution Control Board (BSPCB)
Beltron Bhavan, Shastri Nagar,
Patna – 800 023.

Sub.: Yearly environmental statement of Form – V for the period of April 2015 to March 2016.

Sir,

With reference to above we are submitting here with the environmental statement Form – V for the period of April 2015 to March 2016, for your kind information and record please.

Receipt of the same may kindly be acknowledged.

Thanks and Regards,

For, Ramco Industries Ltd.,

Pankaj Kr.

Works Manager

Encl.: 1. Form - V

2. Work place, ambient and stack monitoring report.

CC: MoEF, Ranchi.

Environmental Statement for the financial year ending 31st March 2016.

# Part A

i) Name and address of the owner/occupier of the industry operation or process.

P.R.VENKATRAMA RAJA

RAMAMANDIRAM

Tenkasi Road

Rajapalayam - 626 117

**TAMILNADU** 

ii) Industry category: Primary - (STC Code) / Secondary

**RED MEDIUM** 

iii) Production capacity - Units

120000 MT / Year

iv) Year of establishment.

2011

v) Date of the last environmental statement submitted

10.5.2015

# Part B

Water and Raw Material Consumption

i) Water consumption m3/d

Process

Cooling

Domestic

	Process water consumption per unit of product output (MT)		
Name of products	During the previous financial year 14-15	During the current financial year 15-16	
	(1)	(2)	
(1) Asbestos Cement Roofing Sheets & Accessories	NA	0.18	

For RAMCO INDUSTRIES LTD.

Environmental Statement for the financial year ending 31st March 2016.

**Raw Material Consumption** 

		Consumption of raw materials per unit of output (MT)		
Name of Raw Materials	Name of Products	During the previous financial year 2014-15	During the current financial year 2015-16	
1) CEMENT ·		0.435	0.42	
2) FIBER	Asbestos Cement Roofing Sheets	0.084	0.082	
3) FYLASH	& Accessories	0.266	0.267	
4) PULP		0.001	0.009	

<sup>\*</sup> Industry may use codes if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

### Part C

Pollution discharged to environment/unit of output (Parameter as specified in the 'Consent' issued)

# C-1, WATER POLLUTION

(1) Pollutants	Quantity of pollutants discharged (Kg/day)	concentrations of bollutants in	Percentage of variation from prescribed standards with reasons
Water	NIL	NIL	NIL

For RAMCO INDUSTRIES LTD.

**FORM V** 

Environmental Statement for the financial year ending 31st March 2016.

(1) Stack Attached to	Quantity of pollutants	8- (8))			Percentage of variation from
	discharged (Kg/day)	PM	SO <sub>2</sub>	NO <sub>x</sub>	prescribed standards with reasons
<ol> <li>Asbestos Dust Collector</li> <li>Cement Dust Collector</li> <li>DG Set 1010 KVA</li> </ol>	0.14 6.431 0.520	1.4 54.1 43.4	Not detectable Not detectable 51.6	t detectable 19.4 227.6	- within spec limits -

# Part D

Hazardous Wastes as specified under Hazardous Wastes (Management and Handling) Rules, 1989

Hazardous Waste	Total Quantity (KL)		
	During the previous financial year	During the current financial year	
1) Discarded asbestos containing product	NIL	NIL	
2) Used Oil	NIL	NIL	
3) Residue containing oil	3.04 (KL)	3.12 (KL)	

For RAMCO INDUSTRIES LTD.

Environmental Statement for the financial year ending 31st March 2016.

# Part E

#### SOLID WASTES

	Total Quantity (MT)		
	During the previous financial year	During the current financial year	
a) From process	997.58	1046.92	
b) From pollution control facilities	Negligible	Negligible	
c) (1)Quantity recycled or re-utilized within the unit	997.58	1046.92	
(2) Sold	NA	NIL	
(3) Disposed	NA	»NIE	

# Part F

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

Description	Quantity (kg)	Constituent parameter with concentrations	Method of disposal
1) Broken sheets	532.8 MT	16.2	Fully recycled
2) Used Oil	3.12 KL	5.1	Fully recycled
3) Residue containing oil	NA	15.1	Fully recycled

for RAMCO INDUSTRIES LTD.

(Work Manager)

Page 14

Environmental Statement for the financial year ending 31st March 2016.

### Part G

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

Description	Expenditure in lacs		
	2014-15	2015-16	
1) Water pollution	82,112	1,57,621.23	
2) Air pollution	88,238	1,67,496.58	
3) Hazardous / Solid waste management			
4) Green belt development	39,649	97312	
5) Others	2,09,999	4,22,438.46	

# Part H

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

Description	Investment Projections	Estimated cost (lacs)	Year of Installation
1) Water pollution	-		
2) Air pollution	Dust Collector		
3) Green belt development	Landscaping, Trees plantation		
4) Others			

For RAMCO INDUSTRIES LTD.



Environmental Statement for the financial year ending 31st March 2016.

# Part I

Any other particulars for improving the quality of the environment.

For RAMCO INDUSTRIES LTD.