



# JR LABS

ANNEXURE -

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.

To,

31.12.2020

The Asst. General Manager,  
M/s. Ramco Industries Limited,  
PLOT NO.12 A,  
SIPCOT Industrial Growth Centre,  
Gangaikondan,  
Tirunelveli Dist.  
Tamil Nadu - 627 352

Dear Sir,

Please find enclosed here with the results of Dust Samples of Work Place, Ambient Air and Stack **Collected and Analyzed** by J R LABS for Determination of Respirable Asbestos Fibre Concentration on **22<sup>nd</sup> December 2020.**

Thanking You

Yours sincerely,

For J R LABS

Research Fibre Analyst



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31.12.2020

## REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

**Project** : M/s. Ramco Industries Limited, Plot No.12 A, Sipcot Industrial Growth Centre, Gangaikondan, Tirunelveli (Dist.) Tamil Nadu -627352

**Sampler used** : Samples collected by J R Labs **Analyzed under** : Olympus make, Japan, B X 40 Phase Contrast Microscope  
using Envirotech:APM 800 – VIII.  
S K C : 224-PCXR8:I &  
Casella:T13180 – II

**Flow rate** : 1.0 L P M **Specifications** : As per A I A - R T M 1 & IS : 11450 - Membrane Filter Method

**Sampling Duration** : 60 minutes each

### 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 /cc of air	Remarks
1	22.12.2020	<u>Static</u> Fibre Godown	The Static sample is collected from the Fibre Godown where palletized Fibre bags are stored. Torn bags are taped. Wet moping done.	< 0.1 (0.040)	---
2	22.12.2020	<u>Personal</u> Edge Runner Mill – B O D	The worker carrying the Sampler was feeding fibre bags to the B O D through Roller Conveyor. Dust collector in operation.	< 0.1 (0.024)	---
3	22.12.2020	<u>Static</u> E R Mill – Wet Opener	B O D, E R Mill and Dust Collector in operation.	< 0.1 (0.032)	---

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### REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

**Project** : M/s. Ramco Industries Limited, Plot No.12 A, Sipcot Industrial Growth Centre, Gangaikondan, Tirunelveli (Dist.) Tamil Nadu - 627 352

**Sampler used** : Samples collected by J R Labs **Analyzed under** : Olympus make, Japan, B X 40 Phase Contrast Microscope  
using Envirotech:APM 800 – V,  
Envirotech APM 800 –II &  
S K C : 224-PCXR8:II

**Flow rate** : 1.0 L P M **Specifications** : As per A I A - R T M 1 & IS : 11450 - Membrane Filter Method

**Sampling Duration** : 60 minutes each

### 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 /cc of air	Remarks
4	22.12.2020	<u>Personal</u> Cutter Off.- S F Drum	The worker carrying the Sampler was cutting the Sheets at green stage on main Machine along with another worker.	< 0.1 (0.052)	---
5	22.12.2020	<u>Personal</u> Stripping	The worker carrying the Sampler was engaged in operation of Stripping Machine. The sample is collected during the production of F C C Sheets.	< 0.1 (0.080)	---
6	22.12.2020	<u>Personal</u> M G Section - Moulding	The worker carrying the Sampler was making R1 & R2 moulded articles along with other workers. Semi wet process.	< 0.1 (0.056)	---

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**Project** : M/s. Ramco Industries Limited, Plot No.12 A, Sipcot Industrial Growth Centre, Gangaikondan, Tirunelveli (Dist.) Tamil Nadu - 627 352

**Sampler used** : Samples collected by J R Labs **Analyzed under** : Olympus make, Japan, B X 40 Phase Contrast Microscope  
using Envirotech APM 800 – III,  
Envirotech APM 800 – VI &  
Casella : AFC 123

**Flow rate** : 1.0 L P M

**Specifications** : As per A I A - R T M 1  
& IS : 11450 - Membrane Filter Method

**Sampling Duration** : 60 minutes each

### 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 /cc of air	Remarks
7	22.12.2020	<u>Personal</u> Pulverizer	The worker carrying the Sampler was feeding broken F C C Sheets through the Chute of Pulverizer.	< 0.1 (0.084)	---
8	22.12.2020	<u>Personal</u> 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)	---
9	22.12.2020	<u>Personal</u> Ball Mill	The worker carrying the Sampler was engaged in operation of Ball Mill including feeding of broken F C C Sheets. Wet process.	< 0.1 (0.088)	---

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AN ISO 9001 : 2008 CERTIFIED LAB

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**Project** : M/s. Ramco Industries Limited, Plot No.12 A, Sipcot Industrial Growth Centre, Gangaikondan, Tirunelveli (Dist.) Tamil Nadu - 627 352

**Sampler used** : Samples collected by J R Labs **Analyzed** : Olympus make, Japan, B X 40 Phase Contrast Microscope  
using S K C : Side Kick 51 Ex & **under**  
S K C : AirLite

**Flow rate** : 1.0 L P M **Specifications** : As per A I A - R T M 1 & IS : 11450 - Membrane Filter Method

**Sampling Duration** : 60 minutes each

### 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 /cc of air	Remarks
10	22.12.2020	<u>Personal</u> 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 (0.048)	---
11	22.12.2020	<u>Personal</u> Q C Lab Assistant	The Q C Lab Asst. carrying the Sampler was engaged in different Lab Activities during the period of sampling.	< 0.1 (0.028)	---

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### REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

**Project** : M/s. Ramco Industries Limited, Plot No.12 A, Sipcot Industrial Growth Centre, Gangaikondan, Tirunelveli (Dist.) Tamil Nadu - 627 352

**Sampler used** : Samples collected by J R Labs **Analyzed under** : Olympus make, Japan, B X 40 Phase Contrast Microscope  
using Casella:T13180 - I &  
Spectro : SLE-PS-154:I

**Flow rate** : 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

### 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 /cc of air	Remarks
12	22.12.2020	<u>Static</u> Ambient Air: Near Main Gate - Security Office	The Static sample is collected from near the Main Gate - Security Office. The Plant was in production of F C C Sheets.	< 0.1 (0.068)	—
13	22.12.2020	<u>Static</u> Ambient Air: Near Stock Yard - Sheet Loading Area	The Static sample is collected from the Stock Yard - Sheet Loading Area. Sample is collected during loading of different sizes of F C C Sheets into the Truck.	< 0.1 (0.060)	—

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T C : December 2020 : Stack – E R M : A F C

31.12.2020

## REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

### FIBRE D E STACK

**Project** : M/s. Ramco Industries Limited, Plot No.12 A, Sipcot Industrial Growth Centre, Gangaikondan, Tirunelveli (Dist.) Tamil Nadu -627352

**Sampler used** : Envirotech VSS1 **Analyzed under** : Olympus make, Japan, B X 40 Phase Contrast Microscope

**Flow rate** : 10 L P M **Specifications** : As per A I A - R T M 1  
IS:11450 & ISO:10397

**Sampling Duration** : 10 minutes **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
22.12.2020	Fibre D E Stack connected to B O D - Edge Runner Mill	---	0.024	---

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T C : December 2020 : Stack – Pulverizer : A F C

31.12.2020

## REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

### FIBRE D E STACK

**Project** : M/s. Ramco Industries Limited, Plot No.12 A, Sipcot Industrial Growth Centre, Gangaikondan, Tirunelveli (Dist.) Tamil Nadu -627352

**Sampler used** : Envirotech VSS1 **Analyzed under** : Olympus make, Japan, B X 40 Phase Contrast Microscope

**Flow rate** : 10 L P M **Specifications** : As per A I A - R T M 1 IS:11450 & ISO:10397

**Sampling Duration** : 10 minutes **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
22.12.2020	Fibre D E Stack connected to Pulverizer	---	0.072	---

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