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**ASBESTOS FIBRE COUNT OF  
NORTH EAST ROOFING PRIVATE LIMITED  
AND  
ASSAM ROOFING LIMITED  
GUWAHATI, ASSAM**

**FINAL REPORT**

**(Phase - II)  
September, 2021**



**सीएसआईआर-भारतीय विषविज्ञान अनुसंधान संस्थान  
CSIR-INDIAN INSTITUTE OF TOXICOLOGY RESEARCH**

विषविज्ञान भवन, 31, महात्मा गांधी मार्ग, पोस्ट बॉक्स नं० 80, लखनऊ-226001, उ.प्र., भारत  
VISHVIGYAN BHAWAN, 31, MAHATMA GANDHI MARG, POST BOX NO 80, LUCKNOW-226001, U.P. INDIA

Telephone: 0522-2611547/ 2621858 Fax: 2611547

E-mail : [rpbdl@iitrindia.org](mailto:rpbdl@iitrindia.org)





CSIR-Indian Institute of Toxicology Research  
LUCKNOW-226 001

**Name and Address of the Client** : North East Roofing Private Limited  
and  
Assam Roofing Limited  
Regd. Office & Works, Bonda, Narangi,  
Guwahati-781026, Assam, India

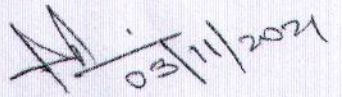
**Reference No.** : NERPL/QCD/2020-2021/135  
dated 18-10-2021

**Description and Identification of the Test** : Asbestos fibre count on slides

**Nature of samples** : Ten microscopic glass slides of membrane filters along with details of sampling

**CSIR-IITR Code No. for the Work** : SSP-428

**First Phase Study** : 16-04-2021  
**Second Phase Study** : 28-10-2021

  
03/11/2021

Head,

Research Planning &  
Business Development

डॉ० क० सी० खुल्बे / Dr. KC Khulbe  
प्रमुख, अनुसंधान योजना एवं व्यवसाय विकास विभाग  
Head, Research Planning & Business Development Division  
सी ई आर आर आर - भारतीय विज्ञान प्रतिष्ठान, गुवाहाटी  
CSIR-Indian Institute of Toxicology Research  
विश्वविद्यालय ३१-१, मंगलम मार्ग, लुक्नो-२२६००१ भारत  
Vishwagyan Bhawan-31, Mangalam Marg, Lucknow-226001 India



## Test Report

1. Study Code No. : SSP-428
2. Date of Sample Collection/ Monitoring : 18-09-2021 and 19-09-2021  
(North East Roofing Pvt. Ltd.)  
: 19-09-2021 to 21-09-2021  
(Assam Roofing Limited)  
(Samples collected by Industry)
3. Test Required by Sponsor : Asbestos fibre counts in ten slides
4. Methodologies and reference standards used for testing :  
The counting of asbestos fibre was done using NIKON Eclipse E600W Microscope (Japan). The data were calculated following the flow rate of 1 liter/minute for a period of 60 minutes, as provided by the industry, and expressed as number of fibre in air per cubic centimeter (f/cc).  
Ref. Bureau of Indian Standard (IS: 11450).
5. Date, sample received : 22-10-2021
6. Date, study initiated : 25-10-2021
7. Date, study completed : 28-10-2021
8. Test Results :

Table-1: Fibre count in the slides of samples  
from North East Roofing Private Limited

Slide No.	Locations	Code	Date of Sampling	Fibre count (f/cc)
1-N	Fibre Godown	SSP-428 (XI)	18/09/2021	0.061
2-N	Mill Area	SSP-428 (XII)	18/09/2021	0.056
3-N	Fibre Treatment Area	SSP-428 (XIII)	18/09/2021	0.047
4-N	Sheeting Machine Area	SSP-428 (XIV)	19/09/2021	0.043
5-N	Q. C. Personal	SSP-428 (XV)	19/09/2021	0.036

Table-2: Fibre count in the slides of samples  
from Assam Roofing Limited

Slide No.	Locations	Code	Date of Sampling	Fibre count (f/cc)
6-A	Laboratory	SSP-429 (XVI)	19/09/2021	0.031
7-A	Molding Filing Area	SSP-429 (XVII)	20/09/2021	0.044
8-A	Reclamation/Filing Area	SSP-429 (XVIII)	20/09/2021	0.033
9-A	Dry/Wet Wastage Processing Area	SSP-429 (XIX)	20/09/2021	0.046
10-A	Dust Extractor (Mill)	SSP-429 (XX)	21/09/2021	0.058



9. **Results**

Asbestos fibre count in 5 microscopic glass slides of membrane filters provided by North East Roofing Limited Guwahati, at 5 different locations is given in Table-1. Locations in fibre godown and mill area had close values of fibre counts i.e. 0.061 f/cc and 0.056 f/cc. Similarly, fibre treatment area, sheeting machine area and Q. C. personal had close values of fibre counts i.e. 0.047 f/cc, 0.043 f/cc and 0.036 f/cc.

Asbestos fibre count in 5 microscopic glass slides of membrane filters provided by Assam Roofing Limited Guwahati, at 5 different locations is given in Table-2. Location in dust extractor (mill) had fibre counts value of 0.058 f/cc. Remaining locations i.e. laboratory, molding filing area, reclamation/filing area and dry/wet wastage processing area had close values of fibre counts i.e. 0.031 f/cc, 0.044 f/cc, 0.033 f/cc and 0.046 f/cc

10. **Conclusions**

These asbestos fibre counts are within National Safe Standard value of 0.100 f/cc.

*Alexander*  
28/10/2021

(A.H. Khan)  
Sr. Principal Scientist

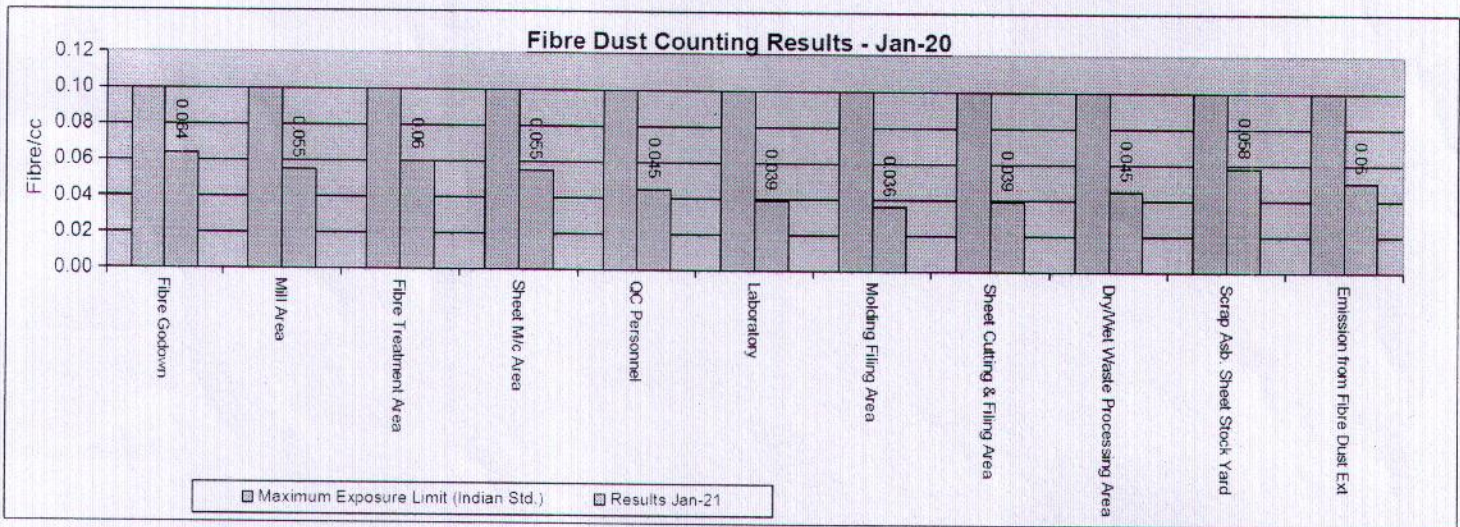
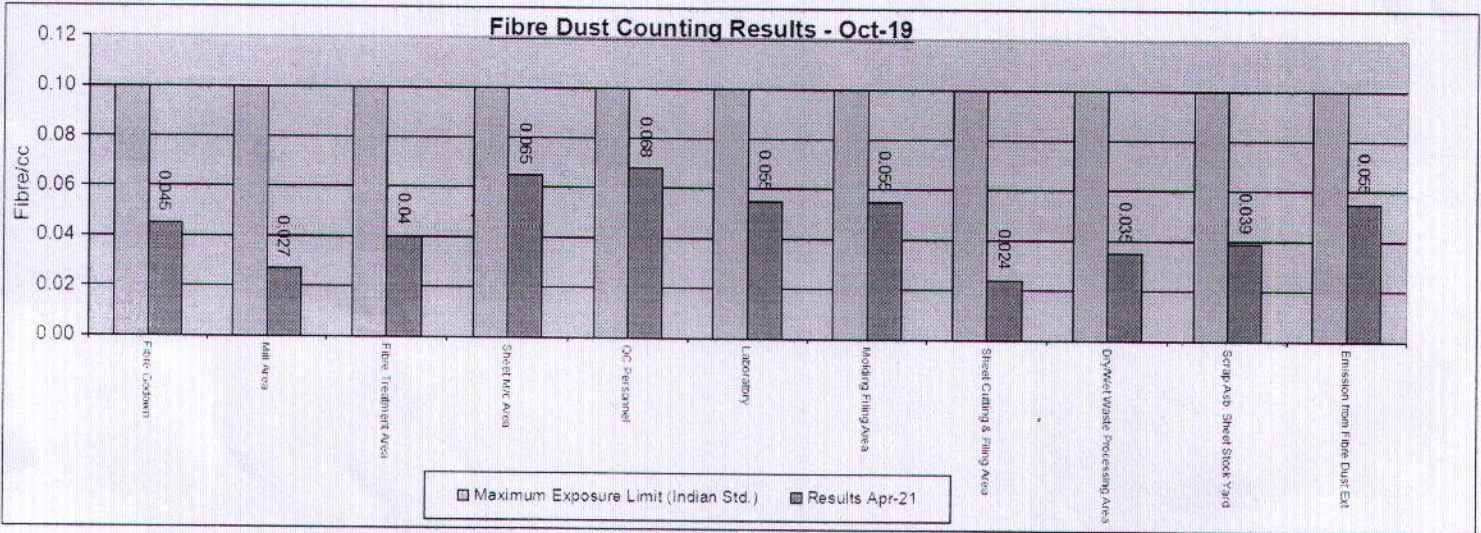
11. **Notes:**

- a. The above results relate only to the tests required by sponsor as indicated in item 3 (Page 3 of 4).
- b. The report shall not be reproduced in fragments without the written approval of Director, CSIR-IITR, Lucknow.
- c. This report shall not be used for any purpose other than environmental management related activities of the plant/ site by the sponsor.



## Fibre Dust Counting Results at Work Places

Work Place	Maximum Exposure Limit (Indian Std.)	Dust Count Results (Fibre/cc)		Date of sampling	
		Results	Results	Apr-21	Jul-21
		Apr-21	Jan-21	Apr-21	Jul-21
Fibre Godown	0.10	0.045	0.064	10/10/19	19/01/20
Mill Area	0.10	0.027	0.055	10/10/19	19/01/20
Fibre Treatment Area	0.10	0.04	0.06	10/10/19	19/01/20
Sheet M/c Area	0.10	0.065	0.055	11/10/19	20/01/20
QC Personnel	0.10	0.068	0.045	11/10/19	20/01/20
Laboratory	0.10	0.055	0.039	11/10/19	20/01/20
Molding Filing Area	0.10	0.055	0.036	12/10/19	21/01/20
Sheet Cutting & Filing Area	0.10	0.024	0.039	12/10/19	21/01/20
Dry/Wet Waste Processing Area	0.10	0.035	0.045	12/10/19	21/01/20
Scrap Asb. Sheet Stock Yard	0.10	0.039	0.058	13/10/19	22/01/20
Emission from Fibre Dust Ext	0.10	0.055	0.05	13/10/19	22/01/20



*Handwritten signature/initials*