

CSIR-IITR Report Code: SSP-428  
Month of Preparation: October-2021  
Total No. of Pages: 04

**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 : [rpbd@iitrindia.org](mailto:rpbd@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

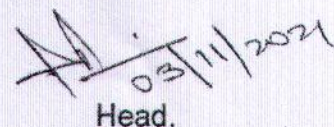
**Reference No.** : NERPL/QCD/2020-2021/135  
dated 18-10-2021

**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 कि० सी० खुल्बे / Dr. KC Khulbe  
प्रमुख, अनुसंधान योजना एवं व्यापार विकास विभाग  
Head, Research Planning & Business Development Division  
सी एन आई आर - भारतीय विषाक्तता अनुसंधान संस्थान  
CSIR-Indian Institute of Toxicology Research  
विश्वविद्यालय भवन 31, महामांदा मार्ग, लखनऊ-226001 भारत  
Vishwagyan Bhawan 31, Mahatma Gandhi 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.

*A.H. Khan*  
28/10/2021  
(A.H. Khan)  
Sr. Principal Scientist

11. **Notes:**

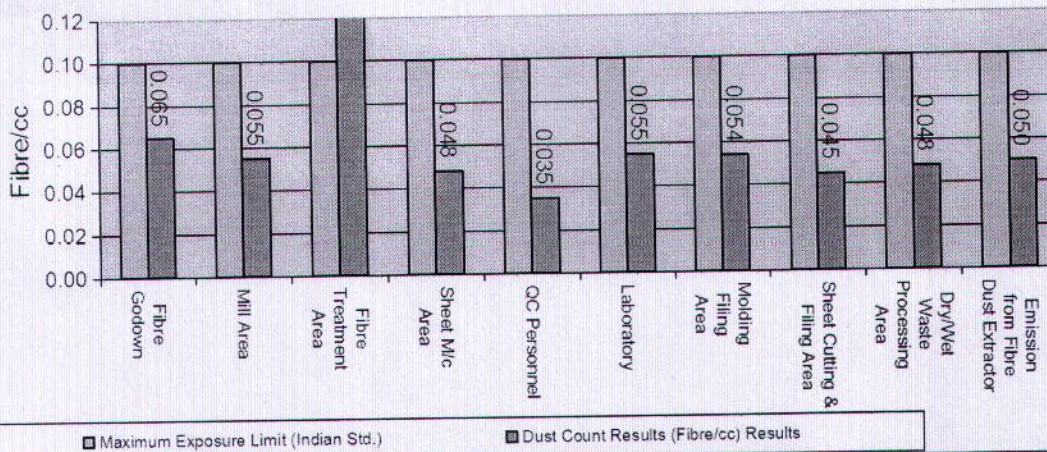
- a. The above results relate only to the tests required by sponsor as indicated in item 3 (Page 3 of 4).
- b. The report shall not be reproduced in fragments without the written approval of Director, CSIR-IITR, Lucknow.
- c. This report shall not be used for any purpose other than environmental management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



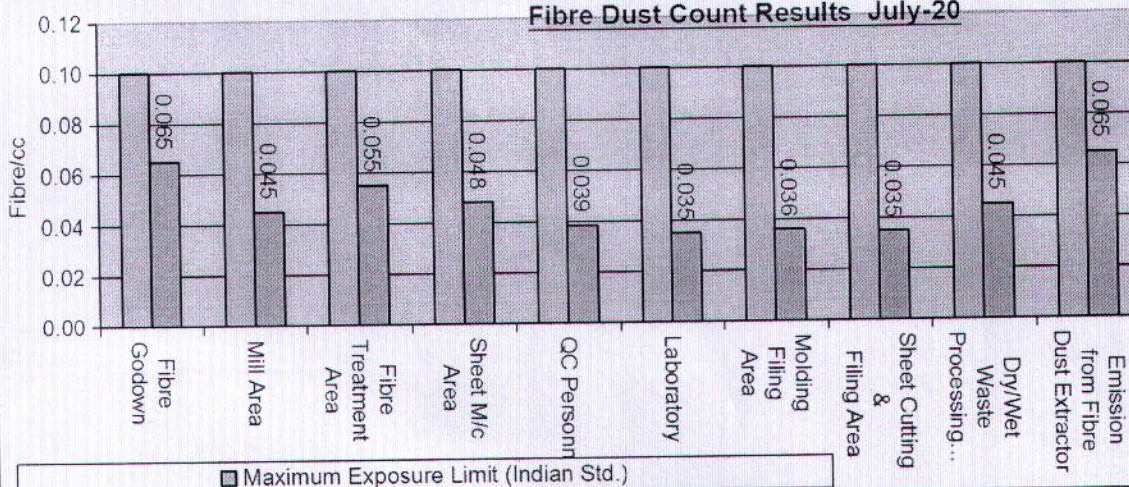
Fibre Dust Counting Results at Work Places

Work Place	Maximum Exposure Limit (Indian Std.)	Dust Count Results (Fibre/cc)		Date of sampling	
		Results	Results	Apr-20	Jul-20
Fibre Godown	0.10	0.065	0.065	6/4/2021	7/7/2021
Mill Area	0.10	0.055	0.045	6/4/2021	7/7/2021
Fibre Treatment Area	0.10	0.35	0.055	6/4/2021	7/7/2021
Sheet M/c Area	0.10	0.048	0.048	6/4/2021	8/7/2021
QC Personnel	0.10	0.035	0.039	7/4/2021	8/7/2021
Laboratory	0.10	0.055	0.035	7/4/2021	8/7/2021
Molding Filing Area	0.10	0.054	0.036	7/4/2021	9/7/2021
Sheet Cutting & Filing Area	0.10	0.045	0.035	7/4/2021	9/7/2021
Dry/Wet Waste Processing Area	0.10	0.048	0.045	8/4/2021	9/7/2021
Emission from Fibre Dust Extractor	0.10	0.050	0.065	8/4/2021	10/7/2021

Fibre Dust Count Results "Apr"20



Fibre Dust Count Results July-20



Handwritten signature/initials.