



भारत सरकार Government of India  
राष्ट्रीय परीक्षण शाला (द.क्षे.)  
National Test House (SR), Chennai  
तारामणी, चेन्नई, तमिलनाडु - 600113  
Tharamani, Chennai - 600113, Tamilnadu



PART A. PARTICULARS OF SAMPLE SUBMITTED

COMPLETE TEST CERTIFICATE

भाग 'अ' जमा किये गये नमूने का विवरण

परीक्षण प्रमाणपत्र सं/Test Certificate No:  
NTH(SR)/CIV(G)/24/4954\_1

एस.आर.एफ. संख्या/SRF Number:  
NTH(SR)/CIV(G)/24/4954

जारी होने की तिथि/Date of issue  
20 Sep, 2024

कोड सं/QR Code  
: NTH240055760

|                                                                                    |   |                                                                                                                              |
|------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------|
| a) जिसे जारी करना है/Issued To                                                     | : | Monier Roofing Private Limited                                                                                               |
| b) पता/Address                                                                     | : | #143/C3, Phase 1, Bommasandra Industrial Area, Bangalore - 560099.,<br>Bengaluru, Bengaluru Rural, Karnataka, India - 560099 |
| c) ग्राहक का संदर्भ सं एवं दिनांक/Customer's Ref. No.                              | : | TR/SR/24/1685 - 14 May, 2024                                                                                                 |
| d) नमूना मुहरबंद स्थिति/Sample Sealed Status                                       | : | Not Sealed                                                                                                                   |
| e) परीक्षण सामग्री का विवरण/Description of Test item                               | : | 1. Transverse Breaking Strength (TBS) 2. Water Absorption 3.<br>Permeability                                                 |
| f) नामपद्धति का विवरण/Description of Nomenclature                                  | : | Elabana Concrete Roof Tile                                                                                                   |
| g) नमूने की विशिष्टता (यदि हो)/Product Specification(if any)                       | : | IS 654:2023 - Clay roofing Tiles-Mangalore pattern Specification                                                             |
| h) नमूना प्राप्ति की तिथि /Date of Receipt of the Test item                        | : | 01 Aug, 2024                                                                                                                 |
| i) कार्य निष्पादन की तिथि/Date(s)of Performance of Tests                           | : | From: 09 Aug, 2024 To: 18 Sep, 2024                                                                                          |
| j) परिमाण/Quantity                                                                 | : | 6.0 Nos                                                                                                                      |
| k) कोई अन्य सूचना / अंतिम तिथि, यदि हो/Any other Information / Expiry Date, If any | : |                                                                                                                              |
| l) अनुभाग कोड/Section Code                                                         | : | 24CV419BN (Pages:3)                                                                                                          |
| m) अनुभव प्रमाणपत्र संख्या/Section Certificate No.                                 | : | 24CV419BN_1                                                                                                                  |
| n) प्रमाणपत्र का प्रकार/Certificate Type                                           | : | New                                                                                                                          |
| o) संदर्भ प्रमाणपत्र संख्या/Reference Certificate No.                              | : |                                                                                                                              |
| p) टिप्पणी/Remarks                                                                 | : | Test Report Uploaded.                                                                                                        |

Antu C D  
OIC SAMPLE CELL  
Signed on: 20 Sep, 2024 11:50 AM

1. This Test / Calibration Certificate shall not be reproduced except in full, unless permission for the reproduction of an  
Signature Not Verified  
applicable extract has been obtained from the Director, National Test House (SR), Chennai. 2. This Test / Calibration  
anturcd@nath.gov.in  
Certificate is valid only to the sample/ items submitted.  
(SampleCell)

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Section Certificate No. : 24CV419BN\_1

IS 654:2023

PART B. SUPPLEMENTARY INFORMATION

|     |                                                                                                                                                                                                                                                                                                 |                                                 |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 1.  | नमूना लेने की प्रक्रिया का संदर्भ, जहां लागू हो।<br>Reference to sampling procedure, wherever applicable.                                                                                                                                                                                       | Not Applicable                                  |
| 2.  | परीक्षण रिपोर्ट से संबंधित मापन एवं परिमाण प्रसि हेतु सहायक प्रलेख जैसे ग्राफ, तालिका, चित्र और / अथवा फोटोग्राफ, यदि कोई हो।<br>Supporting documents for the measurements taken and results derived like graphs, table sketches and or photographs as appropriate to test certificate, if any. | Not Applicable                                  |
| 3.  | सम्बद्ध मानक / कार्य निर्देशों में निर्धारित परीक्षण पद्धति से विचलन, यदि कोई हो।<br>Deviation from the test methods as prescribed in relevant ISS/Work instruction, if any.                                                                                                                    | Not Applicable                                  |
| 4.  | परीक्षण सामग्री की पहचान/identification of Test item                                                                                                                                                                                                                                            | One sample stated as Elabana Concrete Roof Tile |
| 5.  | व्यावर्त की प्राणाली की पहचान/Method(s) used for Test                                                                                                                                                                                                                                           | IS 654:2023                                     |
| 6.  | नमूना प्रक्रिया जहां प्रासंगिक हो/Sampling Procedure where relevant                                                                                                                                                                                                                             | No sampling is done                             |
| 7.  | पर्यावरण की स्थिति/Environmental Conditions                                                                                                                                                                                                                                                     | IS 654:2023                                     |
| 8.  | उपयोग किए जाने वाले प्रमुख मानक/उपकरण/Major Standards/Equipments used                                                                                                                                                                                                                           | IS 654:2023                                     |
| 9.  | कैलिब्रेशन स्थल/Site of Calibration                                                                                                                                                                                                                                                             | NA                                              |
| 10. | मापन का पता लगाने की क्षमता/Traceability of Measurement                                                                                                                                                                                                                                         | NA                                              |

S Murali  
OIC Testing/Calibration Civil  
(Reviewed & Approved by)  
Signed on: 18 Sep, 2024 17:31 PM

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Signature Not Verified  
smurali@nth.gov.in-  
(OIC  
Testing/Calibration)



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Section Report No. : 24CV419BN\_1

IS 654:2023

PART C. TEST RESULT

| S.No. | Clause No<br>Table No.<br>Sl. No | Parameter - Method<br>of test | Test Description         | Min<br>Limit | Max<br>Limit | Unit | Result/<br>Observation                                                                                        |
|-------|----------------------------------|-------------------------------|--------------------------|--------------|--------------|------|---------------------------------------------------------------------------------------------------------------|
| 1     | 7.3                              | Breaking Load Test            | Breaking Load Test       | -            | -            | -    | Breaking Load, kN: i.<br>Average Value= 2.5;<br>ii. Individual<br>Minimum value =<br>2.5                      |
| 2     | 7.2                              | Permeability Test             | Permeability Test        | -            | -            | -    | Satisfactory. No<br>water dripping is<br>found at the bottom<br>of the tile.                                  |
| 3     | 7.1                              | Water absorption<br>Test      | Water absorption<br>Test | -            | -            | -    | Water Absorption,<br>percent by weight: i.<br>Average Value= 5.0;<br>ii. Individual<br>Maximum value =<br>5.0 |

SENTHIL KUMAR M  
Lab Sc. Testing/Calibration Civil

S Murali  
OIC Testing/Calibration Civil  
(Reviewed & Approved by)  
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**Part D.**

**REMARKS**

Please see the test results

**Notes**

Nil

**S Murali**  
**OIC Testing/Calibration Civil**  
(Reviewed & Approved by)  
Signed on: 18 Sep, 2024 17:31 PM

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