



**SHREEJI MATERIALS TESTING LABORATORY LLP**  
**LAB FOR CIVIL ENGINEERING MATERIAL & SOIL TESTING**  
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## TEST REPORT

|                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |            |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------|
| SMTL/Cu/ S-4205 / Date:- 16-11-2025                                                  |                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |            |
| Name of Work                                                                         | Testing of Copper Rod Samples.                                                                                                                                                                                                                                                                                                                                                                             |                                      |            |
| Report Submitted to                                                                  | AD, Airports Authority of India, Kangra Airport, Gaggal, Himachal Pradesh                                                                                                                                                                                                                                                                                                                                  |                                      |            |
| Received Vide letter No.                                                             | Date :- 15/11/2025                                                                                                                                                                                                                                                                                                                                                                                         |                                      |            |
| Date of Sample Received                                                              | 15-11-2025                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |            |
| Name of Agency                                                                       | Krishna Electrical Agency, Chennai.                                                                                                                                                                                                                                                                                                                                                                        |                                      |            |
| Condition of Sample                                                                  | Sealed                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |            |
| Details of Sample                                                                    | Copper Strip (25 x 3 mm)                                                                                                                                                                                                                                                                                                                                                                                   |                                      |            |
| Lab No.                                                                              | Spectro/Cu/                                                                                                                                                                                                                                                                                                                                                                                                | 176                                  |            |
| Job No.                                                                              | S-4205                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |            |
| Starting Date of Test                                                                | 15-11-2025                                                                                                                                                                                                                                                                                                                                                                                                 | Completion date of Test              | 15-11-2025 |
| INSTRUMENT UTILIZED :- OPTICAL EMISSION SPECTROMETER, HITACHI FOUNDRY - MASTER SMART |                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |            |
| CHEMICAL ANALYSIS TEST METHOD: ASTM E 415:2021                                       |                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |            |
| Sr No.                                                                               | Element %                                                                                                                                                                                                                                                                                                                                                                                                  | Sample-1<br>Copper Strip (25 x 3 mm) | Remarks    |
| 1                                                                                    | Cu %                                                                                                                                                                                                                                                                                                                                                                                                       | 98.12                                | --         |
| Requirement AS Per IS 613 : 2000 AMENDMENT NO. 2 (RA 2016)                           |                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |            |
| Note:-                                                                               | [1]Test results relate to samples collected by supplier only. [2]Results/Reports are issued with specific understanding that SMTL will not in any case be involved in action following the information of test result. [3]Results /Reports are not supposed to be used for publicity. [4] This report can not be reproduced in full or part without written approval of Quality Manager/ Technical Manager |                                      |            |



For SMTL ,  
  
Authorized Signatory  
Sachindrasinh Yadav  
Quality Manager



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## TEST REPORT

| SMTL/Cu/ S-4205 / Date:- 16-11-2025                                                  |                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |            |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------|
| Name of Work                                                                         | Testing of Copper Rod Samples.                                                                                                                                                                                                                                                                                                                                                                             |                                     |            |
| Report Submitted to                                                                  | AD, Airports Authority of India, Kangra Airport, Gaggal, Himachal Pradesh                                                                                                                                                                                                                                                                                                                                  |                                     |            |
| Received Vide letter No.                                                             | Date :- 15/11/2025                                                                                                                                                                                                                                                                                                                                                                                         |                                     |            |
| Date of Sample Received                                                              | 15-11-2025                                                                                                                                                                                                                                                                                                                                                                                                 |                                     |            |
| Name of Agency                                                                       | Krishna Electrical Agency, Chennai.                                                                                                                                                                                                                                                                                                                                                                        |                                     |            |
| Condition of Sample                                                                  | Sealed                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |            |
| Details of Sample                                                                    | Copper Wire (75 sq. mm)                                                                                                                                                                                                                                                                                                                                                                                    |                                     |            |
| Lab No.                                                                              | Spectro/Cu/                                                                                                                                                                                                                                                                                                                                                                                                | 177                                 |            |
| Job No.                                                                              | S-4205                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |            |
| Starting Date of Test                                                                | 15-11-2025                                                                                                                                                                                                                                                                                                                                                                                                 | Completion date of Test             | 15-11-2025 |
| INSTRUMENT UTILIZED :- OPTICAL EMISSION SPECTROMETER, HITACHI FOUNDRY - MASTER SMART |                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |            |
| CHEMICAL ANALYSIS TEST METHOD: ASTM E 415:2021                                       |                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |            |
| Sr No.                                                                               | Element %                                                                                                                                                                                                                                                                                                                                                                                                  | Sample-1<br>Copper Wire (75 sq. mm) | Remarks    |
| 1                                                                                    | Cu %                                                                                                                                                                                                                                                                                                                                                                                                       | 99.81                               | --         |
| Requirement AS Per IS 613 : 2000 AMENDMENT NO. 2 (RA 2016)                           |                                                                                                                                                                                                                                                                                                                                                                                                            |                                     |            |
| Note:-                                                                               | [1]Test results relate to samples collected by supplier only. [2]Results/Reports are issued with specific understanding that SMTL will not in any case be involved in action following the information of test result. [3]Results /Reports are not supposed to be used for publicity. [4] This report can not be reproduced in full or part without written approval of Quality Manager/ Technical Manager |                                     |            |



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Sachindrasinh Yadav  
Quality Manager

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**TEST REPORT**

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|-------------------------------------|---------------------------------------------------------------------------|-------------------------|------------|
| SMTL/Cu/ S-4205 / Date:- 16-11-2025 |                                                                           |                         |            |
| Name of Work                        | Testing of Copper Rod Samples.                                            |                         |            |
| Report Submitted to                 | AD, Airports Authority of India, Kangra Airport, Gaggal, Himachal Pradesh |                         |            |
| Received Vide letter No.            | Date :- 15/11/2025                                                        |                         |            |
| Date of Sample Received             | 15-11-2025                                                                |                         |            |
| Name of Agency                      | Krishna Electrical Agency, Chennai.                                       |                         |            |
| Condition of Sample                 | Sealed                                                                    |                         |            |
| Details of Sample                   | Copper Plate (600 x 600 x 3.15 mm)                                        |                         |            |
| Lab No.                             | Spectro/Cu/                                                               | 178                     |            |
| Job No.                             | S-4205                                                                    |                         |            |
| Starting Date of Test               | 15-11-2025                                                                | Completion date of Test | 15-11-2025 |

**INSTRUMENT UTILIZED :- OPTICAL EMISSION SPECTROMETER, HITACHI FOUNDRY - MASTER SMART****CHEMICAL ANALYSIS TEST METHOD: ASTM E 415:2021**

| Sr No. | Element % | Sample-1                           | Remarks |
|--------|-----------|------------------------------------|---------|
|        |           | Copper Plate (600 x 600 x 3.15 mm) |         |
| 1      | Cu %      | 96.48                              | --      |

**Requirement AS Per IS 613 : 2000 AMENDMENT NO. 2 (RA 2016)****Note:-**

[1] Test results relate to samples collected by supplier only. [2] Results/Reports are issued with specific understanding that SMTL will not in any case be involved in action following the information of test result. [3] Results /Reports are not supposed to be used for publicity. [4] This report can not be reproduced in full or part without written approval of Quality Manager/ Technical Manager



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|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------|
| SMTL/Cu/ S-4205 / Date:- 16-11-2025                                                  |                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |            |
| Name of Work                                                                         | Testing of Copper Rod Samples.                                                                                                                                                                                                                                                                                                                                                                             |                                      |            |
| Report Submitted to                                                                  | AD, Airports Authority of India, Kangra Airport, Gaggal, Himachal Pradesh                                                                                                                                                                                                                                                                                                                                  |                                      |            |
| Received Vide letter No.                                                             | Date :- 15/11/2025                                                                                                                                                                                                                                                                                                                                                                                         |                                      |            |
| Date of Sample Received                                                              | 15-11-2025                                                                                                                                                                                                                                                                                                                                                                                                 |                                      |            |
| Name of Agency                                                                       | Krishna Electrical Agency, Chennai.                                                                                                                                                                                                                                                                                                                                                                        |                                      |            |
| Condition of Sample                                                                  | Sealed                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |            |
| Details of Sample                                                                    | Lighting Arresters (1*2)                                                                                                                                                                                                                                                                                                                                                                                   |                                      |            |
| Lab No.                                                                              | Spectro/Cu/                                                                                                                                                                                                                                                                                                                                                                                                | 179                                  |            |
| Job No.                                                                              | S-4205                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |            |
| Starting Date of Test                                                                | 15-11-2025                                                                                                                                                                                                                                                                                                                                                                                                 | Completion date of Test              | 15-11-2025 |
| INSTRUMENT UTILIZED :- OPTICAL EMISSION SPECTROMETER, HITACHI FOUNDRY - MASTER SMART |                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |            |
| CHEMICAL ANALYSIS TEST METHOD: ASTM E 415:2021                                       |                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |            |
| Sr No.                                                                               | Element %                                                                                                                                                                                                                                                                                                                                                                                                  | Sample-1<br>Lighting Arresters (1*2) | Remarks    |
| 1                                                                                    | Cu %                                                                                                                                                                                                                                                                                                                                                                                                       | 97.68                                | --         |
| Requirement AS Per IS 613 : 2000 AMENDMENT NO. 2 (RA 2016)                           |                                                                                                                                                                                                                                                                                                                                                                                                            |                                      |            |
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