



**STRENGTH OF MATERIALS LABORATORY**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**COLLEGE OF ENGINEERING TRIVANDRUM**

CET / ITC & SR No. 225/26-27

15.07.2026

To,

Mr.Sivankutty.G  
Senior General Manager – Projects & Division Head,  
Confident Group,Kannammoola TC:94/3675,  
Medical College.P.O.  
Trivandrum - 695011

Sub. : Testing of TMT bars - reg

Ref. : 1)Letter No : NIL dated. 24.06.2026

2) CET / ITC & SR No .225 /26-27 dated. 24.06.2026

**TEST RESULTS** (As per IS 1608:2005,1786: 2008)

| Sl. No | Brand Name      | Reported Diameter (mm) | Unit Weight (kg/m) | Actual Diameter (mm) | Yield Strength (N/mm <sup>2</sup> ) | Ultimate Strength (N/mm <sup>2</sup> ) | Elongation (%) | Bend & Rebend |
|--------|-----------------|------------------------|--------------------|----------------------|-------------------------------------|----------------------------------------|----------------|---------------|
| 1      | SURYA DEV 550 D | 8                      | 0.39               | 7.97                 | 679.91                              | 779.79                                 | 25.00          | OK            |
| 2      |                 | 8                      | 0.39               | 8.00                 | 674.82                              | 773.95                                 | 22.50          | OK            |
| 3      |                 | 8                      | 0.39               | 7.99                 | 656.62                              | 756.03                                 | 22.50          | OK            |
| 4      |                 | 10                     | 0.61               | 9.97                 | 677.59                              | 754.26                                 | 20.00          | OK            |
| 5      |                 | 10                     | 0.61               | 9.97                 | 690.38                              | 767.04                                 | 16.00          | OK            |
| 6      |                 | 10                     | 0.61               | 9.98                 | 689.27                              | 765.81                                 | 16.00          | OK            |
| 7      |                 | 12                     | 0.85               | 11.77                | 623.95                              | 743.17                                 | 21.67          | OK            |
| 8      |                 | 12                     | 0.85               | 11.74                | 627.57                              | 738.26                                 | 20.00          | OK            |
| 9      |                 | 12                     | 0.85               | 11.76                | 624.69                              | 734.87                                 | 20.00          | OK            |
| 10     |                 | 16                     | 1.56               | 15.90                | 695.69                              | 798.20                                 | 18.75          | OK            |
| 11     |                 | 16                     | 1.55               | 15.86                | 699.73                              | 777.06                                 | 17.50          | OK            |
| 12     |                 | 16                     | 1.55               | 15.83                | 727.89                              | 779.62                                 | 17.50          | OK            |



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|--------|-----------------|------------------------|--------------------|----------------------|-------------------------------------|----------------------------------------|----------------|---------------|
| 13     | SURAYADEV 550 D | 20                     | 2.48               | 20.06                | 617.61                              | 801.38                                 | 20.00          | OK            |
| 14     |                 | 20                     | 2.52               | 20.22                | 638.21                              | 758.83                                 | 16.00          | OK            |
| 15     |                 | 20                     | 2.53               | 20.25                | 666.79                              | 772.07                                 | 16.00          | OK            |
| 16     |                 | 25                     | 3.84               | 24.95                | 603.93                              | 663.39                                 | 16.00          | OK            |
| 17     |                 | 25                     | 3.91               | 25.19                | 592.19                              | 650.49                                 | 15.20          | OK            |
| 18     |                 | 25                     | 3.83               | 24.93                | 605.04                              | 684.47                                 | 15.20          | OK            |

**Sri. Joy J**

TECHNICAL STAFF -IN-CHARGE

**Dr. Yashida Nadir**

FACULTY -IN-CHARGE

**Dr. Mitra D C**

LAB-IN-CHARGE

**Dr. Priyadarsini R.S**

HEAD OF THE DEPARTMENT



**PRINCIPAL**  
കോളേജ് ഓഫ് എഞ്ചിനീയറിംഗ്  
ട്രിവാന്ദ്രം, തിരുവനന്തപുരം 16