



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

CET / ITC & SR No. 2431/23-24

22.03.2024

To, Mr. Sivankutty.G
Senior General Manager
Projects & Divison Head, Confident Group
T.C.94/3675,Kannammoola,Medical College.P.O.
Trivandrum.695011.

Sub. : Testing of Reinforcement Steel Bars - reg:-

Ref. : 1) Letter No. Nil

dated 06.03.2024

2) CET / ITC & SR No. 2431/23-24

dated 11.03.2024

TEST RESULTS

(As per IS 1608:2005,1786: 2008)

Sl. No.	Brand Name	Reported Diameter (mm)	Actual Diameter (mm)	Unit Weight (kg/m)	Yield Strength (N/mm ²)	Ultimate Strength (N/mm ²)	Elongation (%)	Bend Test	Re Bend Test
1	TULSYAN CROME HCRM 550D	8	8.08	0.402	631.10	688.47	27.50	OK	OK
2		8	8.10	0.404	608.96	685.08	25.00	OK	OK
3		8	8.11	0.405	626.44	711.86	27.50	OK	OK
4		10	9.85	0.598	656.30	765.69	22.00	OK	OK
5		10	9.98	0.614	626.78	752.14	26.00	OK	OK
6		10	10.23	0.644	620.38	727.76	22.00	OK	OK
7		12	11.92	0.875	619.50	702.98	20.00	OK	OK
8		12	11.80	0.858	636.65	730.80	21.67	OK	OK
9		12	11.80	0.858	641.14	721.84	21.67	OK	OK

Dr. Smitha M.S

Consultant



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10	TULSYAN CROME HCRM 550D	16	15.86	1.550	645.27	734.62	20.00	OK	OK
11		16	15.88	1.554	663.45	732.77	20.00	OK	OK
12		16	15.87	1.553	664.29	723.78	18.75	OK	OK
13		20	20.10	2.490	722.45	768.13	19.00	OK	OK
14		20	20.11	2.492	706.52	767.36	21.00	OK	OK
15		20	20.13	2.498	705.12	765.84	20.00	OK	OK
16		25	24.94	3.834	588.85	651.38	22.00	OK	OK
17		25	24.93	3.830	589.32	662.34	20.80	OK	OK
18		25	24.93	3.830	589.32	651.91	21.60	OK	OK

Sri. Ramachandran G
TECHNICAL STAFF -IN-CHARGE

Dr. Smitha M.S
FACULTY -IN-CHARGE

Dr. Beena P R
LAB-IN-CHARGE

Dr. Anil R
HEAD OF THE DEPARTMENT

PRINCIPAL

കോളേജ് ഓഫ് എഞ്ചിനീയറിംഗ്
ട്രിവാന്ദ്രം, തിരുവനന്തപുരം 16

