

TAMIL NADU HOUSING BOARD - QUALITY CONTROL LABOROTRY

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REPORT ON STEEL RODS AS PER IS 1786(1985) METHOD OF TESTING AS PER IS 1608(1972)

Name of division :- STEEL EXCHANGE INDIA LTD.

Date : 9.4.2012

105, Vizag Profile Towers, Kurumannapalam.

Your ref : Lr. No. NIL, Dt. 19.3.12

VISAGAPPANAM. 530046 AP.

Our ref: SE / QC / SLP 5 / 2012

All Steel rod Samples having the Mark of - Simadri TMT 500 ISI (Samples received on 27.3.12)

SL. No	Dia of rod	Sectional weight	% of Elongation	Ultimate tensile strength	0.2% Proof stress (as per graph)	B I S LIMITS AS PER ISI			
						For Fe- 500 (IS : 1786 - 1979)			
1	8 mm	379 gms	25.64%	693 N/mm ²	540 N/MM ²				
2	8 mm	369 gms	23.08%	684 N/mm ²	535 N/mm ²				
3	8 mm	373 gms	21.79%	677 N/mm ²	555 N/mm ²				
4	10 mm	596 gms	20.41%	687 N/mm ²	540 N/mm ²				
5	10 mm	609 gms	20.00%	690 N/mm ²	525 N/mm ²				
6	10 mm	605 gms	22.00%	667 N/mm ²	515 N/mm ²				
7	12 mm	901 gms	21.67%	689 N/mm ²	555 N/mm ²				
8	12 mm	896 gms	23.33%	701 N/mm ²	525 N/mm ²				
9	12 mm	909 gms	23.33%	688 N/mm ²	525 N/mm ²				
10	16 mm	1538 gms	17.09%	671 N/mm ²	530 N/mm ²				
11	16 mm	1544 gms	20.25%	668 N/mm ²	535 N/mm ²				
12	16 mm	1539 gms	20.25%	666 N/mm ²	525 N/mm ²				
13	20 mm	2489 gms	20.00%	681 N/mm ²	535 N/mm ²				
14	20 mm	2485 gms	20.00%	690 N/mm ²	525 N/mm ²				
15	20 mm	2480 gms	23.00%	655 N/mm ²	530 N/mm ²				
						SECTION WEIGHT TOLERANCE / Mtr			
						8 mm	367 gms	395 gms	423 gms
						10 mm	574 gms	617 gms	660 gms
						12 mm	844 gms	888 gms	932 gms
						16 mm	1501 gms	1580 gms	1659 gms
						20 mm	2396 gms	2470 gms	2544 gms
						25 mm	3735 gms	3850 gms	3995 gms

*Min % of Elongation - 12.00%
 *Min 0.2% Proof Stress - 500 N/mm²
 *Min Ultimate tensile strength - 10% more than the actual 0.2% Proof stress.

IMPORTANT NOTE:- This is only a report of the samples referred BY THE COMPANY and not FOR THE WHOLE FACTORY PRODUCT.

TO

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