



LOCAL GOVERNMENT ENGINEERING DEPARTMENT
QUALITY CONTROL LABORATORY
DISTRICT-RANGPUR
TENSILE TESTING OF REINFORCING BAR

Ref. No. & Date : Ref/UE/Pirganj/46.02.8576.000.99.001.24-597 Date- 22/05/2025

Client : ICL, PVL LTD - Ashraful Alam (JV), Sadar, Jashore.

Scheme/Project- CIB Location : Construction of approach Road of 301.00m Long PSC Girder Bridge at Nundaha Ghat over the River Kartoa at Ch- 4500m on Chatra GC - Gitabari Ghat Via Nischintobati PS Road (Ghoraghat end) Road Under Pirganj Upazila Dist-Rangpur.

Package No- CIB-RAN/W-270

Sample Received : Sealed Condition.

Sample Received Date : 12/06/2025

Type of Specimen : Deformed bar

Sampled by : UE & SAE

Lab. Reg. No. : P-494/61718

Date of Test : 15/06/2025

Determination of Strength : Done using the Nominal Area as per ASTM A 370

Sample No.	Brand Name / Identification	Bar Desig./Nominal dia	Actual bar dia (mm)	Unit weight (kg/m)	Average Unit Weight	Yield or Proof Load (KN)	Yield or Proof Strength (Mpa)	Average Yield or Proof Strength Y/S(Mpa)	Ultimate Strength T/S(Mpa)	Average Ultimate Strength T/S(Mpa)	Ratio TS/YS	Elongation %	Average Elongation %
1	SCRM - R400 DWR	20	20.0	2.469	2.494	168.0	439	61755.20 (psi)	533	533.6	1.27	20.10	19.4
2		20	20.1	2.494		170.0	420		540			19.70	
3		20	20.2	2.519		172.0	418		546			18.30	
1	SCRM - R400 DWR	16	16.0	1.580	1.600	116.0	440	63350.42 (psi)	574	551.6	1.26	18.00	19.0
2		16	16.2	1.620		110.0	437		545			20.00	
3		16	16.1	1.600		108.0	433		535			19.00	
1	SCRM - R400 DWR	12	12.0	0.889	0.904	65.0	435	64340.87 (psi)	565	555.2	1.27	17.90	19.4
2		12	12.1	0.904		67.0	476		583			21.00	
3		12	12.2	0.919		63.0	420		548			19.40	
1	SCRM - R400 DWR	10	10.0	0.617	0.630	43.0	429	64461.59 (psi)	546	571.9	1.29	21.00	20.0
2		10	10.2	0.642		47.0	480		597			19.00	
3		10	10.1	0.630		45.0	425		572			20.00	

NOTE:

- 1 Mpa = MN/m² = N/mm² = 145.038 psi , 1 Kgf/cm² = 14.226 psi and 1 KN = 224.809 lb
- As per ASTM, strength is to be determined by dividing the load by the nominal area. (and not on the basis of actual area.)
- The bar Diameter (mm) = 12.736 x (Weight (gm) / Length (mm))^{1/2}

Signed by :

Paul
Md. Anarul Islam

Sarkar
06/06/20

P
06/06/20