

To,
 Sinaco Engineers (Pvt.) Ltd.
 Construction of Storage Area & Shredder Building of Ittehad Chemical Industries

Reference # CED/TFL 7602 (Dr. Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 06-10-2025
 Dated: 06-10-2025

Tension Test Report (Page-1/1)

Date of Test 07-10-2025
 Gauge Length 2 inches
 Description MS Plate Strips Tensile Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	MS Plate	15.40 x 29.30	451.22	26300	28290	571.8	615.1	0.6	30.0	-
2	MS Plate	19.50 x 29.30	571.35	27010	32440	463.8	557.0	0.8	40.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 0 Samples for Bend test

Bend Test										

Test Performed and Verified by:

To,
 Mr. Allah Ditta (Material Engineer)
 Ashir Developer
 Avenue On Square, Lahore

Reference # CED/TFL 7604 (Dr. Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 06-10-2025
 Dated: 06-10-2025

Tension Test Report (Page-1/1)

Date of Test 07-10-2025
 Gauge Length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	Area (in ²)		Yield Load (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.368	3	0.371	0.110	0.108	34.20	47.70	69867	71130	97446	99208	1.0	12.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 1 Samples for Tensile and 1 Samples for Bend test

Bend Test	
# 3 Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

Ref: CED/TFL/10/7605

Dated: 07-10-2025

Date of Calibration: 07-10-2025 (Dr. Safeer Abbas)

To

Ch. Rizwan Mushtaq (Resident Engineer)
Nespak (Pvt.) Ltd.
Consultancy Services for Construction Supervision of Rathoa-Haryam Bridge, Mirpur
AJK.

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/10/7605) (Page – 1/1)

Reference to your Letter No. 3366/03/CRM/01/201, dated: 07/10/2025 on the subject cited above. One Hydraulic Jack (Jack No. 025 G400, Pump No. B-2, 975) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 340 (bar)

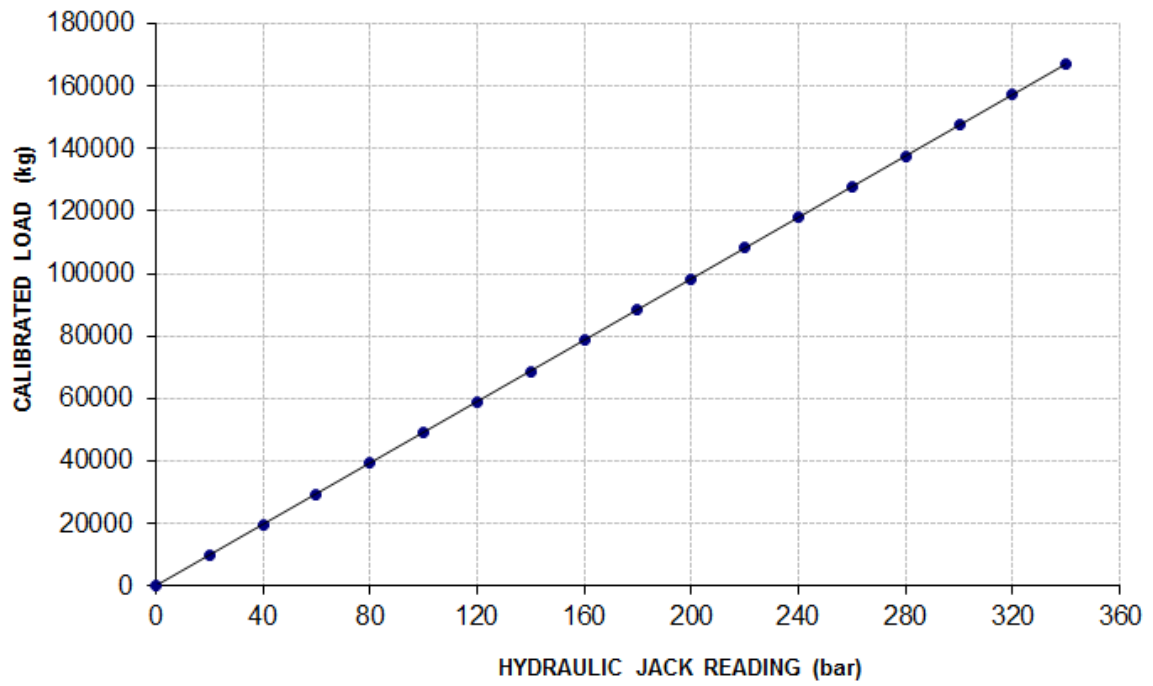
Hydraulic Jack Pressure (bar)	Hydraulic Jack Load (kg)	Calibrated Load (kg)
0	0	0
20	9834	12800
40	19668	24000
60	29502	34200
80	39336	45000
100	49170	55600
120	59004	65200
140	68838	76200
160	78672	86600
180	88506	97400
200	98340	108900
220	108174	119300
240	118008	129200
260	127842	140100
280	137676	149400
300	147510	159800
320	157344	169700
340	167178	183500

The Ram Area of Jack = 491.70 cm²

Test Performed and Verified by:

Calibration Curve For Jack No. 025G400, Pump No. B-2, 975

Calibrated Load ((kg) = (1.0763 x Jack Reading (bar)) + 4.2388



Test Performed and Verified by: