Ref: CED/TFL/08/7384 **Dated: 18-08-2025**
Dated of Test: 22-08-2025 (Dr. M. Kashif)

To,
Allied Union and Unique Builders
Construction Companies JV

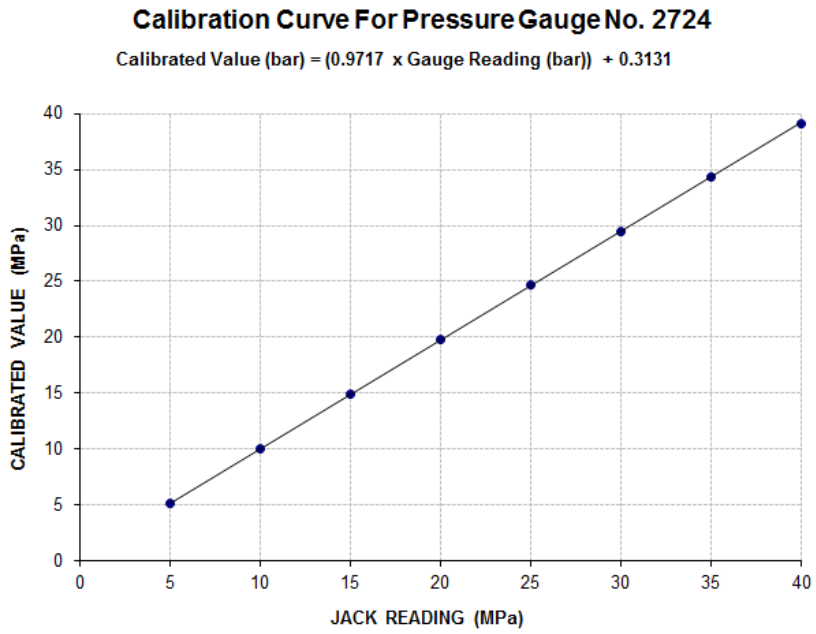
Subject: **- CALIBRATION OF PRESSURE GAUGE (MARK: TFL/08/7384)** (Page -1/1)

Reference to your Letter No. Nil, Dated: 18/08/2025 on the subject cited above. One Pressure Gauge No. 2724 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 40 (MPa)

Pressure Gauge Reading (MPa)	**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**
Calibrated Load (kg)	**10300**	**20300**	**30100**	**39900**	**49800**	**59500**	**69300**	**79000**
Calibrated Pressure (MPa)	**5.10**	**10.05**	**14.91**	**19.76**	**24.67**	**29.47**	**34.32**	**39.13**

The Ram Area use for Calibration = 198 cm^2



Test Performed and Verified by:

To,

Rockwell Corp. (Pvt.) Ltd.
Pile Work at Colgate Palmolive Block-G, Sundar Industrial Estae, Lahore
-

Reference # CED/TFL **7395** (Dr. M Kashif) Dated: 20-08-2025
Reference of the request letter # RCL/CPL/Lab-01 Dated: 20-08-2025

Tension Test Report (Page-1/1)

Date of Test 22-08-2025
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 (mm)	Actual Diameter (inch)	Area (in^2)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.369**	**10**	**0.372**	**0.120**	**0.108**	**32.50**	**44.20**	**60861**	**67323**	**82772**	**91559**	**1.5**	**18.8**	-
2	**0.386**	**10**	**0.380**	**0.120**	**0.113**	**36.00**	**47.00**	**67416**	**71378**	**88015**	**93188**	**1.3**	**16.3**	-
3	**0.367**	**10**	**0.371**	**0.120**	**0.108**	**32**	**43.70**	**59925**	**66611**	**81835**	**90965**	**1.4**	**17.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 3 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,

Mr. Hamid Javid (AE B&R)
GE Air Rafiqui
Construction of 01 x Block of 6 'F' Type Flats (Minhas Block) at PAF Base Rafiqui.
CA No. CEA-DE-04/2026

Reference # CED/TFL **7396** (Dr. M Kashif) Dated: 20-08-2025
Reference of the request letter # 6491/13/E-C Dated: 11-08-2025

Tension Test Report (Page-1/1)

Date of Test 22-08-2025
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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.361**	**3**	**0.367**	**0.110**	**0.106**	**36.50**	**48.50**	**74566**	**77355**	**99081**	**102786**	**1.4**	**17.5**	**3/8"**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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:

To,

Mr. Hamid Javid (AE B&R)
GE Air Rafiqui
Construction of 01 x Block of 6 'F' Type Flats (Minhas Block) at PAF Base Rafiqui.
CA No. CEA-DE-04/2026

Reference # CED/TFL **7396** (Dr. M Kashif) Dated: 20-08-2025
Reference of the request letter # 6491/13/E-C Dated: 11-08-2025

Tension Test Report (Page-1/1)

Date of Test 22-08-2025
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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.361**	**3**	**0.367**	**0.110**	**0.106**	**36.50**	**48.50**	**74566**	**77355**	**99081**	**102786**	**1.4**	**17.5**	**3/8"**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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:

To,

Mr. Nadeem Abbas (A/XEN)
AGE (Army) DI Khan
CA No. ENC-A-61/2025 "Const of Bdry Wall at DI Khan Garrision (Fort Iqbal & River Side) Cantt."

Reference # CED/TFL **7401** (Dr. M Kashif) Dated: 21-08-2025
Reference of the request letter # 6633/26/E6 Dated: 21-08-2025

Tension Test Report (Page-1/1)

Date of Test 22-08-2025
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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.377	3	0.376	0.110	0.111	32.20	46.70	65781	65255	95403	94640	1.4	17.5	3/8"
2	0.368	3	0.371	0.110	0.108	31.50	45.50	64351	65388	92952	94449	1.3	16.3	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,

Engr. Sufyan Uppal (Project Engineer)
Baig Developers and Builders (Pvt.) Ltd.
Construction of ICON Mall & Towers, Bahria Town, Lahore

Reference # CED/TFL **7404** (Dr. M Kashif) Dated: 22-08-2025
Reference of the request letter # ST/UET/21082025/3000 Dated: 21-08-2025

Tension Test Report (Page-1/1)

Date of Test 22-08-2025
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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.368**	**3**	**0.371**	**0.110**	**0.108**	**31.00**	**41.20**	**63330**	**64489**	**84168**	**85708**	**1.2**	**15.0**	-
2	**0.371**	**3**	**0.372**	**0.110**	**0.109**	**30.00**	**40.70**	**61287**	**61866**	**83146**	**83931**	**1.2**	**15.0**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 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/08/7405 Dated: 22-08-2025

Dated of Test: 22-08-2025 (Dr. M. Kashif)

To

Muhammad Zubair (Team Leader-JIPIC)
Jalalpur Irrigation Project (JIP)
Construction of Jalapur Irrigation Canal and its system (RD 52+000 to RD 225+500) Package No. JIP/WKS/ICB-P2

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter no: JIPIC/2.18/8552 on dated 21.08.2025 on the subject cited above. Two R.C.C. Pipes as received by us has been tested. The results are tabulated as under.

Sr. No.	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	D-Load (0.01 inch)	D-Load Ultimate
	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(kg)	(kg)	Lbs/Linear foot/foot	Lbs/Linear foot/foot
1	15	92.4	84.7	19.1	15.03	2.03	10000	15000	2493	3740
2	15	92.5	84.6	19.4	15.27	2.07	9000	12000	2212	2950

Test Performed and Verified by:

To,

Mr. Abdul Basset
Banu Mukhtar Contracting (Pvt.) Ltd.
Gulbahar Tower (At Plot No.13, Block-D-1, Gulberg-III, Lahore)

Reference # CED/TFL **7406** (Dr. M Kashif) Dated: 22-08-2025
Reference of the request letter # DOC-BMC/GULBAHAR/01 Dated: 22-08-2025

Tension Test Report

Date of Test 22-08-2025
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	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.366**	**3**	**0.370**	**0.110**	**0.107**	**36.00**	**44.70**	**73544**	**75304**	**91318**	**93502**	**1.2**	**15.0**	-
2	**0.366**	**3**	**0.370**	**0.110**	**0.108**	**34.70**	**44.00**	**70889**	**72465**	**89888**	**91887**	**1.0**	**12.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 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: