



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Team Leader – JIPIC
Project Implementation Consultants (PICs)
Jalalpur Irrigation Project
Construction of Jalalpur Irrigation Canal and its System

Reference # CED/TFL **1940** (Dr. Usman Akmal)
Reference of the request letter # JIPIC/2.2

Dated: 13-09-2022

Dated: 12-09-2022

Tension Test Report (Page – 1/1)

Date of Test 15-09-2022
Gauge length 2 inches
Description Weld Coupons Strip Bend Test

Bend Test
Strip taken from Weld Coupon Face Bend Test Through 180° is Satisfactory (Munir)
Strip taken from Weld Coupon Face Bend Test Through 180° is Satisfactory (Ehsan Ali)
Strip taken from Weld Coupon Face Bend Test Through 180° is Satisfactory (Abid Ali)
Strip taken from Weld Coupon Face Bend Test Through 180° is Satisfactory (Zulifqar)
Only four samples for bend test

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S SM Associates
Lahore
(15 A Ali Block, New Garden Town Lahore)

Reference # CED/TFL 1941 (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 13-09-2022
Dated: 13-09-2022

Tension Test Report (Page -1/1)

Date of Test 15-09-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.384	3	0.379	0.11	0.113	3500	4800	70200	68400	96200	93900	0.80	10.0	
2	0.363	3	0.369	0.11	0.107	3600	4900	72200	74370	98200	101300	1.00	12.5	
3	4.298	10	1.268	1.27	1.263	42800	54800	74300	74680	95200	95700	1.40	17.5	
4	4.266	10	1.264	1.27	1.254	43200	55000	75000	75940	95500	96700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,
 Project Director
 Infrastructure Development Authority of The Punjab
 Pilot Program for Hub and Spoke Model at Zahir Pir, Rahim Yar Khan

Reference # CED/TFL **1943** (Dr. Usman Akmal)
 Reference of the request letter # PD/ZP/IDAP/SO/2022/30

Dated: 13-09-2022
 Dated: 02-09-2022

Tension Test Report (Page -1/1)

Date of Test 15-09-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.408	3	0.391	0.11	0.120	3600	5600	72200	66110	112300	102900	1.10	13.8	Five Mega Star Steel
2	0.388	3	0.381	0.11	0.114	3500	5600	70200	67710	112300	108400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
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To,
 Resident Engineer – CSM
 Associated Consulting Engineers ACE Limited
 Construction of Government Officer's Residences (GOR) in South Punjab Secretariat

Reference # CED/TFL **1944** (Dr. Usman Akmal)
 Reference of the request letter # ACE/RE/GOR/2022/109

Dated: 13-09-2022
 Dated: 12-09-2022

Tension Test Report (Page -1/1)

Date of Test 15-09-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.374	3	0.374	0.11	0.110	3600	4900	72200	72220	98200	98300	0.80	10.0	FF Steel
2	0.381	3	0.378	0.11	0.112	3800	5000	76200	74720	100200	98400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
M/S Vertical Heights Developers
Lahore
(VERTICAL HEIGHTS RESIDENTIAL APARTMENTS AT PLOT # 68 B 2 GULBERG-III LAHORE)

Reference # CED/TFL 1947 (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 14-09-2022
Dated: 14-09-2022

Tension Test Report (Page -1/1)

Date of Test 15-09-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.367	3	0.371	0.11	0.108	3100	4500	62200	63290	90200	91900	1.40	17.5	Batala Steel
2	0.366	3	0.370	0.11	0.108	3100	4500	62200	63480	90200	92200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Siddique Sons
Lahore
(Engro Enfrashare Tower Supply)

Reference # CED/TFL **1948** (Dr. Usman Akmal)
Reference of the request letter # SS/Letter # 802

Dated: 14-09-2022
Dated: 09-09-2022

Tension Test Report (Page -1/1)

Date of Test 15-09-2022
Gauge length 8 inches
Description Plain Steel Bar Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	7.034	32	33.78	-----	896.1	27600	48400	302	530	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Pakistan. Ph: 92-42-99029202

To,
M/S Ittefaq Building Solutions Pvt. Ltd
Lahore

Reference # CED/TFL **1949** (Dr. Usman Akmal)
Reference of the request letter # IBS/KTML Raiwind Division

Dated: 14-09-2022

Dated: 14-09-2022

Tension Test Report (Page -1/1)

Date of Test 15-09-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa)		Ultimate Stress (MPa)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.605	10	9.90	79.00	77.01	3800	5200	472	484	646	662	1.5	18.8	
2	0.610	10	9.94	79.00	77.68	4000	5300	497	505	658	669	1.3	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Pakistan. Ph: 92-42-99029202

To,
Sub Divisional Officer
Highway Sub Division
Burewala

“Construction of Dual Carriage Way from Burewala to Chichawatni Road, Vehari (Reaming Portion) from km 3.00 to 23.14 Length = 20.14 km District Vehari (Section Group – III Construction of Bridge on Pakpattan Canal and Sukh Bais i/c Approches Length = 0.71 km”

Reference # CED/TFL **1950** (Dr. Usman Akmal)
Reference of the request letter # 60/SDB

Dated: 14-09-2022
Dated: 07-09-2022

Tension Test Report (Page – 1/1)

Date of Test 15-09-2022
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	12.70 (1/2")	775.0	775.0	17700	173.64	19800	194.24	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Only one sample for Test

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/09/1952

Dated: 14-09-2022

Date of Test: 15-09-2022

To,

Project Manager
Noor Durrani & Associates
Golf View Rumanza, Multan

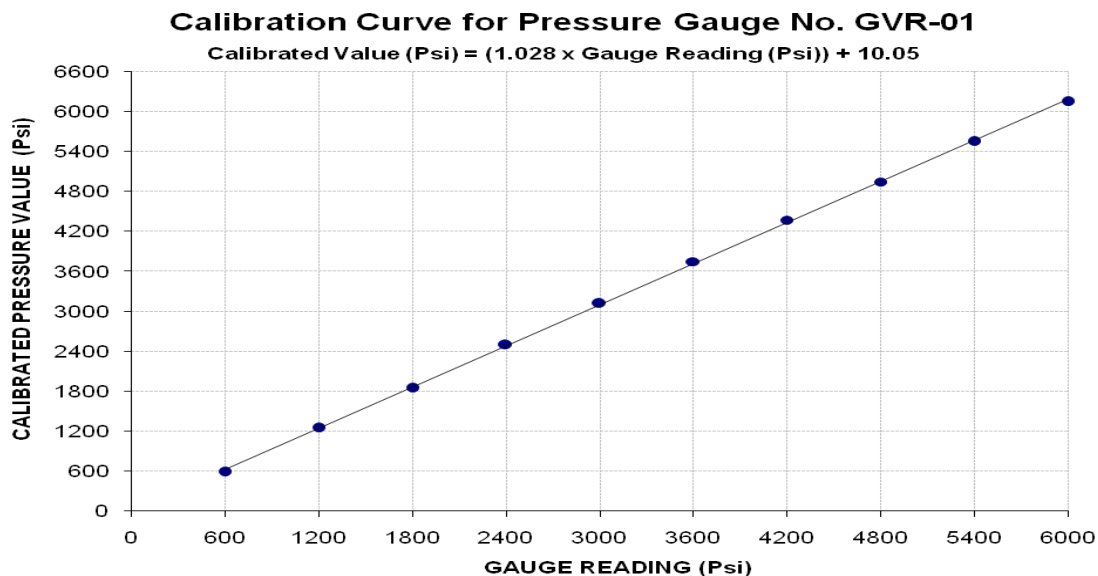
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/09/1952) (Page # 1/1)

Reference to your Letter No. J/0676/010, Dated: 14/09/2022 on the subject cited above. One Pressure Gauge No. GVR-01 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 10000 (Psi)
Calibrated Range : Zero - 6000 (Psi)

Pressure Gauge Reading (Psi)	600	1200	1800	2400	3000	3600	4200	4800	5400	6000
Calibrated Load (kg)	8200	17400	25700	34700	43400	52200	60800	68800	77200	85600
Calibrated Pressure (Psi)	589	1250	1846	2493	3118	3750	4367	4942	5546	6149

The Ram Area for Calibration = 198 cm²



I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Procurement Manager
 Premier Developers & Builders
 Lyallpur Galleria-II near Four Season Colony Samundri Road, Faisalabad

Reference # CED/TFL **1954** (Dr. Usman Akmal)
 Reference of the request letter # LG-II/025

Dated: 14-09-2022
 Dated: 12-09-2022

Tension Test Report (Page -1/1)

Date of Test 15-09-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.371	3	0.372	0.11	0.109	3500	4500	70200	70830	90200	91100	1.10	13.8	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/09/1955

Dated: 14-09-2022

Dated of Test: 15-09-2022

To

Sub Division Officer
Public Health Engg: Sub Division
Mianwali
(Revamping / Comprehensive Sewerage & Drainage including Tuff Tiles and
PCC Scheme for Mianwali City

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page # 1/2)**

Reference to your letter No. 216/MI, dated 05.04.2022 on the subject cited above. One R.C.C. Pipe 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	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.82	7.34	11.14	8.66	1.24	8500	10500	3536	4369

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/09/1955

Dated: 14-09-2022

Dated of Test: 15-09-2022

To

Sub Division Officer
Public Health Engg: Sub Division
Mianwali
(Revamping / Comprehensive Sewerage & Drainage including Tuff Tiles and
PCC Scheme for Mianwali City

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page # 2/2)**

Reference to your letter No. 278/MI, dated 16.05.2022 on the subject cited above. One R.C.C. Pipe 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	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.73	7.33	16.02	11.77	2.12	13500	18400	4139	5641

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Project Engineer
 Defence Housing Authority
 Gujranwala
 “Sector-C”

Reference # CED/TFL **1957** (Dr. Usman Akmal)
 Reference of the request letter # 111/15/PE/RS/Pkg-2A/571

Dated: 15-09-2022
 Dated: 30-08-2022

Tension Test Report (Page -1/1)

Date of Test 15-09-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.092	10	1.238	1.27	1.203	28200	39200	49000	51680	68100	71900	1.60	20.0	FF Steel
2	4.129	10	1.243	1.27	1.214	36400	51600	63200	66100	89600	93800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Senior Manager Project - Civil
 Vision Foods & Packaging Limited
 Volka Food International Limited
 Multan

Reference # CED/TFL **1961** (Engr. Ubaid Ahmed)
 Reference of the request letter # VFI/Civil/14

Dated: 15-09-2022
 Dated: 14-09-2022

Tension Test Report (Page -1/1)

Date of Test 15-09-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.039	1.25	1.230	1.27	1.187	33000	51000	57300	61260	88600	94700	1.60	20.0	
2	4.170	1.25	1.249	1.27	1.226	33800	52600	58700	60780	91300	94600	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
1.25" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample /Signed Samples



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