



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/12/4290

Dated: 04-12-2023

Date of Test: 08-12-2023

To,
Resident Engineer
Icon Gold Valley, Faisalabad

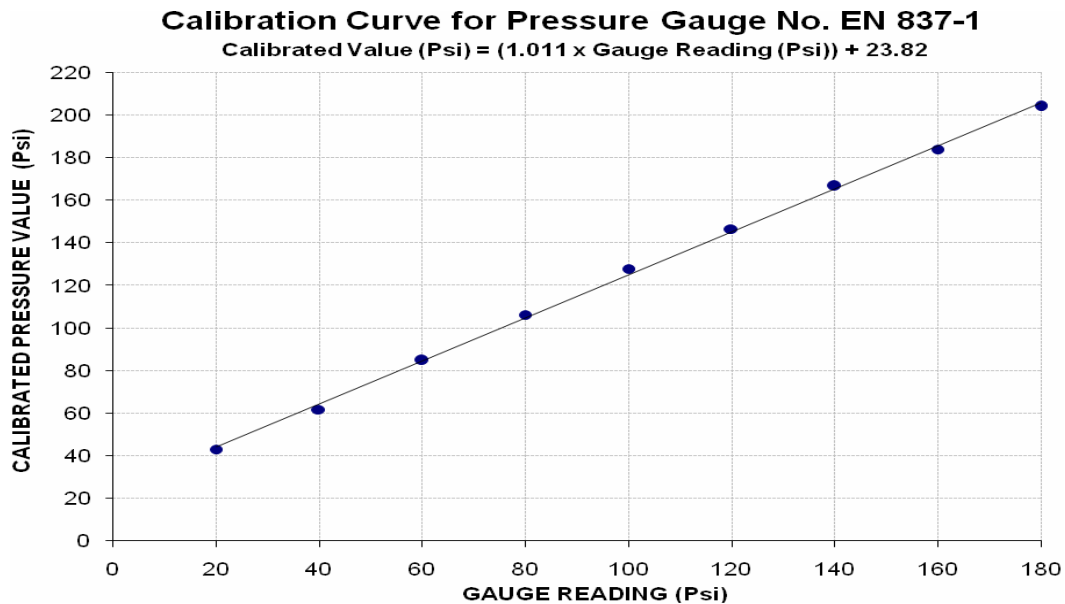
Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/11/4290)** (Page # 1/2)

Reference to your Letter No. IGV/01/2023, Dated: 03/12/2023 on the subject cited above. One Pressure Gauge No. EN 837-1 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 230 (Psi)
Calibrated Range : Zero - 180 (Psi)

Pressure Gauge Reading (Psi)	20	40	60	80	100	120	140	160	180
Calibrated Load (kg)	600	860	1180	1480	1780	2040	2320	2560	2840
Calibrated Pressure (Psi)	43	62	85	106	128	147	167	184	204

The Ram Area for Calibration = 198 cm²



I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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Ref: CED/TFL/12/4290

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To,

Resident Engineer
Icon Gold Valley, Faisalabad

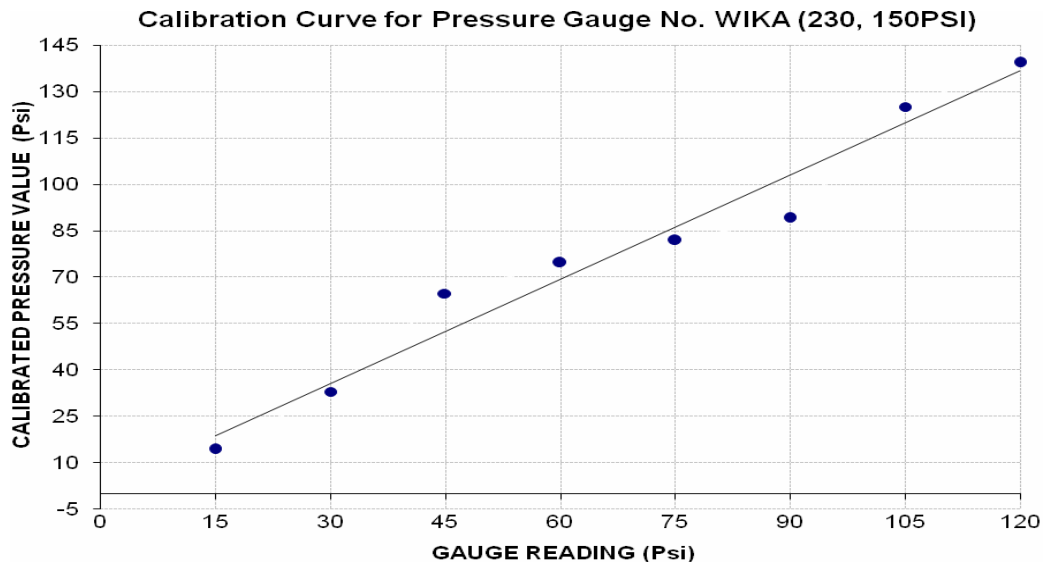
Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/11/4290)** (Page # 2/2)

Reference to your Letter No. IGV/01/2023, Dated: 03/12/2023 on the subject cited above. One Pressure Gauge No. WIKA (230, 150Psi) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 150 (Psi)
Calibrated Range : Zero - 120 (Psi)

Pressure Gauge Reading (Psi)	15	30	45	60	75	90	105	120
Calibrated Load (kg)	200	460	900	1040	1140	1240	1740	1940
Calibrated Pressure (Psi)	14	33	65	75	82	89	125	139

The Ram Area for Calibration = 198 cm²



* It is not recommended to use the pressure gauge due to inconsistent gauge readings.

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,

Material Engineer
 NESPAK – EPCM-PICIIP
 Punjab Intermediated Cities Improvement Investment Program (PICIIP)
 Consultancy Services for Engineering, Procurement and Construction Management
 Trunk Main Sewer Conduit, Effluent Pumping Station and Allied Worked (NCB-
 WORKS/PICIIP-03)(Lot-03)

Reference # CED/TFL **4308** (Dr. M Kashif)

Dated: 05-12-2023

Reference of the request letter # 3976/11/MS/SWL/Lot-03/01/538

Dated: 05-12-2023

Tension Test Report (Page -1/3)

Date of Test 08-12-2023

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	0.369	3	0.372	0.11	0.109	3410	4760	68400	69240	95400	96700	1.30	16.3	Sheikho Steel
2	0.365	3	0.370	0.11	0.107	3430	4760	68800	70460	95400	97800	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.

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,

Material Engineer
 NESPAK – EPCM-PICIIP
 Punjab Intermediated Cities Improvement Investment Program (PICIIP)
 Consultancy Services for Engineering, Procurement and Construction Management
 Trunk Main Sewer Lines and Allied Work (Lot-02)

Reference # CED/TFL **4308** (Dr. M Kashif)

Dated: 05-12-2023

Reference of the request letter # 3976/11/MS/SWL/Lot-02/01/542

Dated: 05-12-2023

Tension Test Report (Page -2/3)

Date of Test 08-12-2023

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	3470	4790	69600	70860	96000	97900	1.40	17.5	Sheikho Steel
2	0.366	3	0.370	0.11	0.108	3410	4760	68400	69840	95400	97500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Material Engineer
 NESPAK – EPCM-PICIIP
 Punjab Intermediated Cities Improvement Investment Program (PICIIP)
 Consultancy Services for Engineering, Procurement and Construction Management
 Trunk Main Sewer Lines and Allied Work (Lot-02)

Reference # CED/TFL **4308** (Dr. M Kashif)

Dated: 05-12-2023

Reference of the request letter # 3976/11/MS/SWL/Lot-02/01/543 Dated: 05-12-2023

Tension Test Report (Page -1/3)

Date of Test 08-12-2023

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	0.184	2	0.263	-----	0.054	1910	2520	-----	77720	-----	102600	0.90	11.3	A.F. Steel
2	0.203	2	0.276	-----	0.060	2140	2570	-----	78910	-----	94800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#2 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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 Riaz Construction Company
 Lahore
 (Construction of New TCF Secondary School Building in 209 Chak Faisalabad.)

Reference # CED/TFL 4317 (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 07-12-2023
 Dated: 07-12-2023

Tension Test Report (Page -1/1)

Date of Test 08-12-2023
 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	3640	5050	73000	73660	101200	102200	1.50	18.8	Ittefaq 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.

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,

Engineer
 Paidar Builders (Pvt) Ltd
 Lahore
 (Construction of TCF Primary School Unit - I Kot Addu Muzaffargarh.)

Reference # CED/TFL **4318** (Dr. M Kashif)

Dated: 07-12-2023

Reference of the request letter # PBL/UET/2023

Dated: 05-12-2023

Tension Test Report (Page -1/1)

Date of Test 08-12-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks	
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)			
1	0.371	3/8	0.373	0.11	0.109	3590	5010	72000	72500	100400	101200	1.20	15.0	Ittefaq Steel	
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Note: only one sample for tensile test															
Bend Test															

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 ESS-I-AAR Consultant
 Rehabilitation / Improvement of Sewerage System District Jhang. (Phase-I)

Reference # CED/TFL **4321** (Dr. M Kashif)
 Reference of the request letter # 1990/PHE

Dated: 07-12-2023
 Dated: 28-11-2023

Tension Test Report (Page -1/1)

Date of Test 08-12-2023
 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	0.390	3	0.382	0.11	0.115	3430	5250	68800	66020	105200	101100	1.40	17.5	Islamabad Supreme
2	0.384	3	0.379	0.11	0.113	3430	5170	68800	67020	103600	101100	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.

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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,
 Assistant Director
 Defence Housing Authority, Gujranwala
 "Construction of 5 Marla Villas (Block C)"

Reference # CED/TFL 4322 (Dr. M Kashif)
 Reference of the request letter # 111/3/AD Bldgs/Gen/62

Dated: 07-12-2023
 Dated: 28-11-2023

Tension Test Report (Page -1/2)

Date of Test 08-12-2023
 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	0.363	3	0.369	0.11	0.107	3260	4740	65400	67330	95000	97900	1.30	16.3	Siraj Steel
2	0.355	3	0.364	0.11	0.104	3180	4710	63800	67220	94400	99600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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,
 Assistant Director
 Defence Housing Authority, Gujranwala
 "Construction of 5 Marla Villas (Block C)"

Reference # CED/TFL 4322 (Dr. M Kashif)
 Reference of the request letter # 111/3/AD Bldgs/Gen/61

Dated: 07-12-2023
 Dated: 28-11-2023

Tension Test Report (Page -2/2)

Date of Test 08-12-2023
 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	0.356	3	0.365	0.11	0.105	3180	4710	63800	67000	94400	99300	1.30	16.3	Siraj Steel
2	0.355	3	0.365	0.11	0.104	3160	4690	63400	66690	94000	99000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

Construction Manager
 Barqaab Consulting Services (Pvt) Limited
 Procurement of Plant, Design, Supply, Installation, Testing and Commissioning of
 500/220/132kV Lahore North Substation and Extension Works at 500/220/132kV Nokhar
 Substation Under ADB Loan-3677-Pak Second Power Transmission Enhancement
 Investment Program Trench-III.

Reference # CED/TFL **4324** (Dr. Asad Ali)

Dated: 07-12-2023

Reference of the request letter # 500kV/SS/N-LHR/BQB/177

Dated: 04-12-2023

Tension Test Report (Page -1/1)

Date of Test 08-12-2023

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	0.381	3	0.377	0.11	0.112	3770	4990	75600	74280	100000	98400	1.20	15.0	FF Steel
2	0.380	3	0.377	0.11	0.112	3790	5010	76000	74700	100400	98800	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														

Witness by Jamshed Ali (S.D.O NTDC) & Muhammad Farhan (Barqaab)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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