



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/10/37202

Dated: 13-10-2021

Dated of Test: 15-10-2021

To
M/S Condrill (Pvt) Ltd
Lahore

Subject: - CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE
(MARK: TFL/10/37202) (Page # 1/1)

Reference to your Letter No. CD/Misc/2021/8700, dated: 13/10/2021 on the subject cited above. One Hydraulic with Pressure Gauge as received by us has been calibrated. The results are tabulated as under:

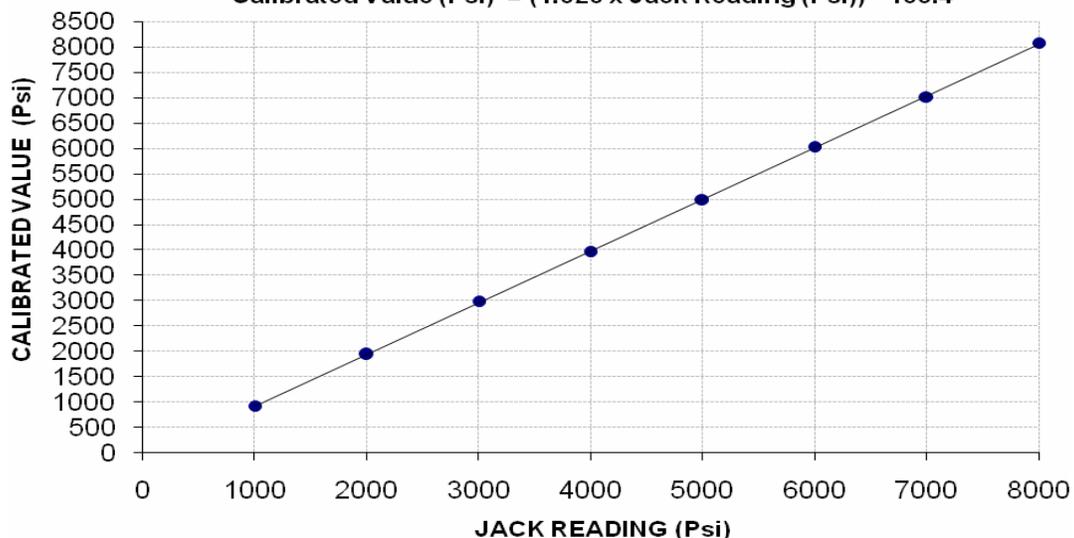
Total Range : Zero - 10000 (Psi)
Calibrated Range : Zero - 8000 (Psi)

Hydraulic Jack Reading (Psi)	1000	2000	3000	4000	5000	6000	7000	8000
Calibrated Load (kg)	8600	18100	28000	37200	46800	56600	65900	75800
Calibrated Pressure (Psi)	916	1928	2983	3963	4986	6030	7021	8076

The Ram Area of Jack = 133.55 cm²

Calibration Curve For Jack

Calibrated Value (Psi) = (1.020 x Jack Reading (Psi)) - 105.4



I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
 Sr Manager Civil
 Maple Leaf Cement Factory Limited,
 Iskandarabad, Dist. Mianwali
 Civil Works of Wall Putty Plant Project
 Reference # CED/TFL **37205** (Dr. M Rizwan Riaz)
 Reference of the request letter # MLCFL/W.P/CIVIL/2021/02

Dated: 14-10-2021
 Dated: 29-09-2021

Tension Test Report (Page -1/1)

Date of Test 15-10-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.369	10	9.44	0.12	0.108	3200	5000	58789	65030	91858	101600	1.60	20.0	Moiz Steel
2	0.372	10	9.48	0.12	0.109	3100	5000	56952	62430	91858	100700	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 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,
 Sr. Engineer (Civil), WASO
 PAEC, BINO Bahawalpur

Reference # CED/TFL **37206** (Dr. M Rizwan Riaz)
 Reference of the request letter # WASO-BINO-21-002

Dated: 14-10-2021
 Dated: 03-10-2021

Tension Test Report (Page -1/1)

Date of Test 15-10-2021
 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	0.367	3/8	0.371	0.11	0.108	3400	5000	68200	69470	100200	102200	1.30	16.3	
2	0.368	3/8	0.371	0.11	0.108	3300	5000	66200	67230	100200	101900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

3/8" Dia 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,
Resident Engineer
NESPAK

Construction Supervision of ADP Scheme No. 1745/190556 (2020-21) "F/S Design & Reconst: of Bridges: Sh: Lot No. 2 (i) Package-IV: Aghan pur Bridge (S-10), Aloch Puran Bridge (S-10-A). Chena Bridge (S-10-A)(WMIL)

Reference # CED/TFL **37209** (Dr. M Rizwan Riaz)
Reference of the request letter # SA-454/PKHA/IHK/21/91

Dated: 14-10-2021

Dated: 11-10-2021

Tension Test Report (Page -1/3)

Date of Test 15-10-2021
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)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	784.0	17500	171.68	19200	188.35	199	>3.50	22956
2	12.70 (1/2")	775.0	785.0	16900	165.79	18900	185.41	199	>3.50	22957
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-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only two samples for Test										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

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,
Resident Engineer
NESPAK

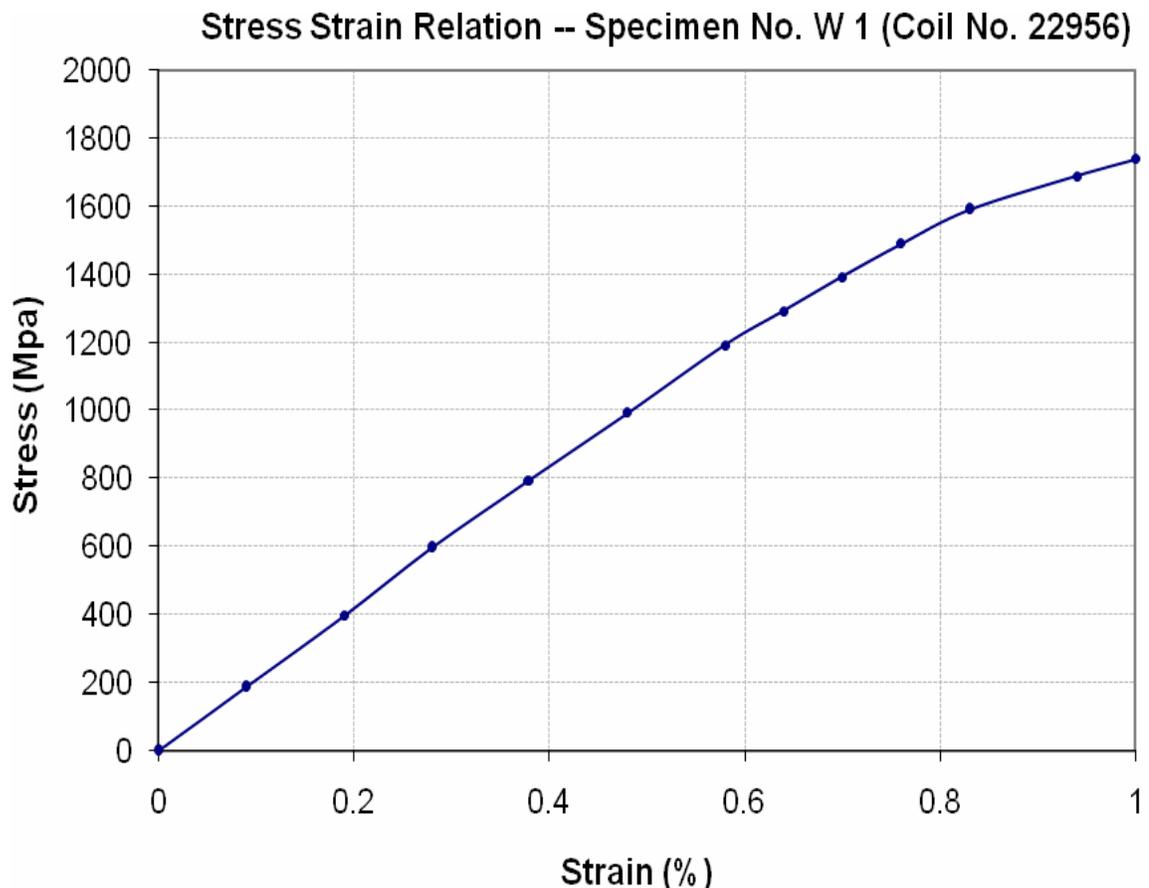
Construction Supervision of ADP Scheme No. 1745/190556 (2020-21) "F/S Design & Reconst:
of Bridges: Sh: Lot No. 2 (i) Package-IV: Aghan pur Bridge (S-10), Aloch Puran Bridge (S-10-
A). Chena Bridge (S-10-A)(WMIL)

Reference # CED/TFL **37209** (Dr. M Rizwan Riaz)
Reference of the request letter # SA-454/PKHA/IHK/21/91

Dated: 14-10-2021

Dated: 11-10-2021

Graph (Page – 2/3)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
Resident Engineer
NESPAK

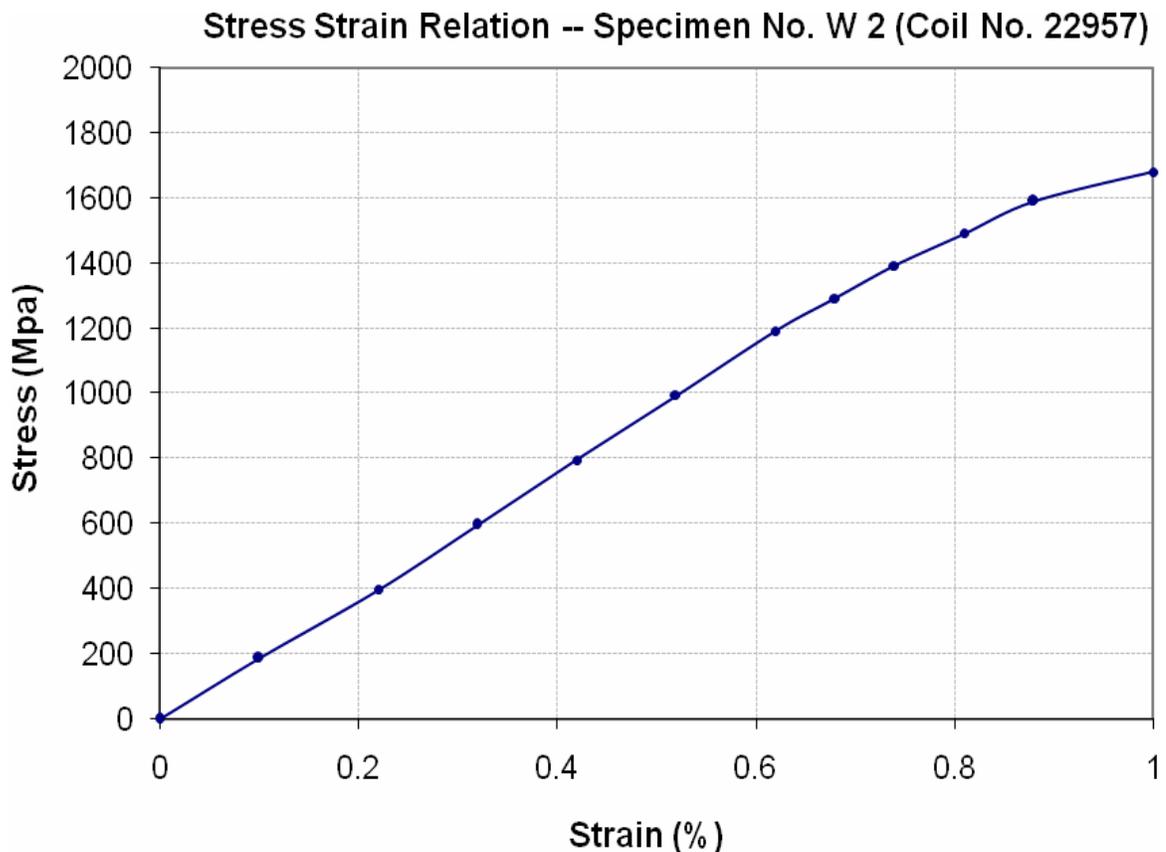
Construction Supervision of ADP Scheme No. 1745/190556 (2020-21) "F/S Design & Reconst:
of Bridges: Sh: Lot No. 2 (i) Package-IV: Aghan pur Bridge (S-10), Aloch Puran Bridge (S-10-
A). Chena Bridge (S-10-A)(WMIL)

Reference # CED/TFL **37209** (Dr. M Rizwan Riaz)
Reference of the request letter # SA-454/PKHA/IHK/21/91

Dated: 14-10-2021

Dated: 11-10-2021

Graph (Page – 3/3)



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,
Resident Engineer /D-R/(PDA)
Creative Engineering Consultants
Construction of Detour Road Hayatabad Remaining Portion (Phase-II)
(WMIL)
Reference # CED/TFL **37210** (Dr. M Rizwan Riaz)
Reference of the request letter # CEC/D-R/RE/2021-09

Dated: 14-10-2021
Dated: 12-10-2021

Tension Test Report (Page -1/3)

Date of Test 15-10-2021
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)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)			
1	12.70 (1/2")	775.0	788.0	18400	180.50	19700	193.26	199	>3.50	22946
2	12.70 (1/2")	775.0	789.0	17800	174.62	19300	189.33	198	>3.50	22950
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only two samples for Test										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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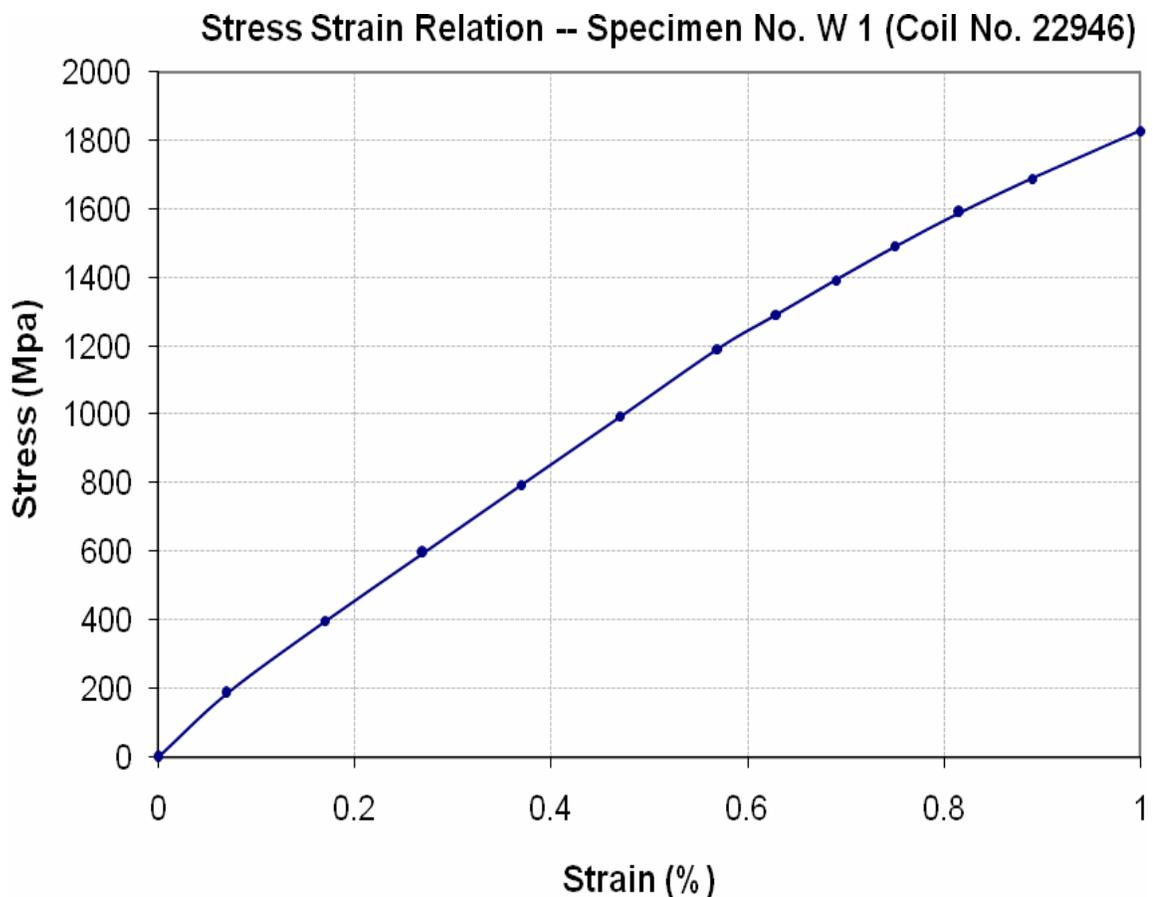


STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer /D-R/(PDA)
Creative Engineering Consultants
Construction of Detour Road Hayatabad Remaining Portion (Phase-II)
(WMIL)
Reference # CED/TFL **37210** (Dr. M Rizwan Riaz)
Reference of the request letter # CEC/D-R/RE/2021-09

Dated: 14-10-2021
Dated: 12-10-2021

Graph (Page – 2/3)



I/C Testing Laboratories
UET Lahore, Pakistan.

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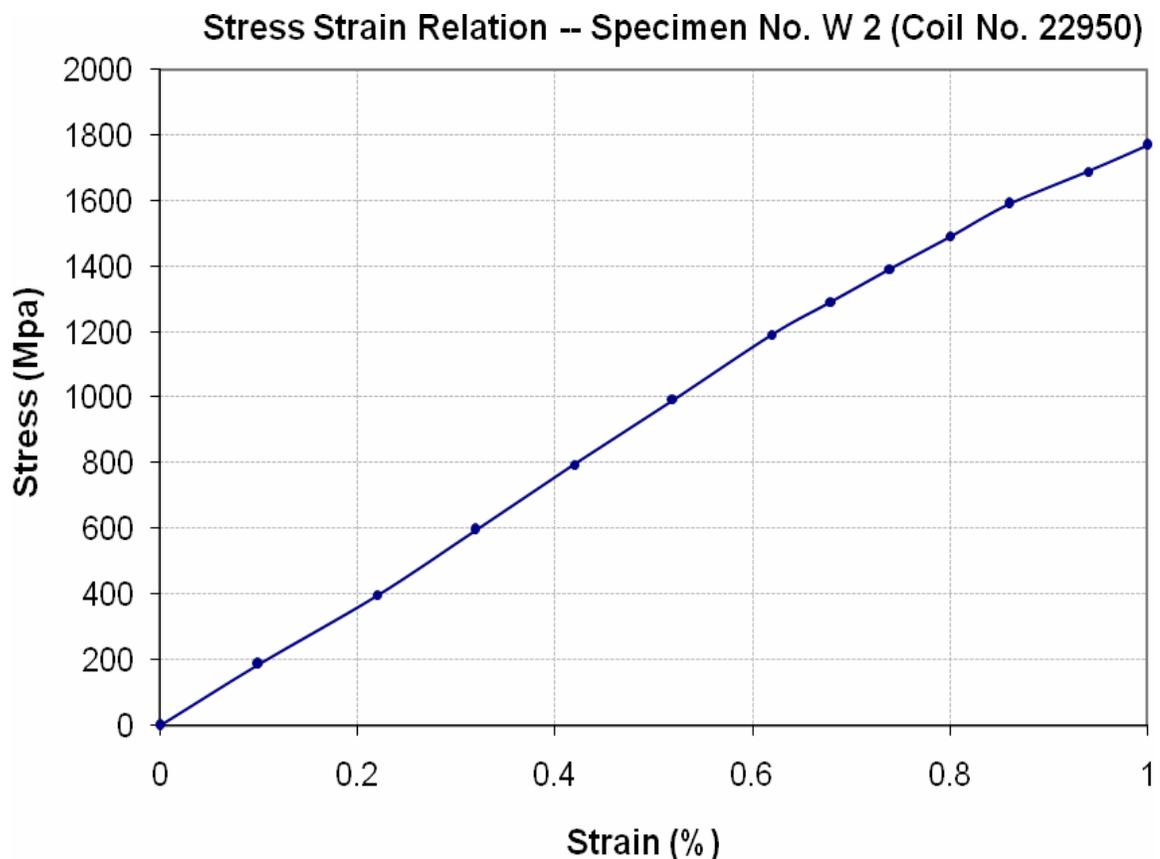


STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer /D-R/(PDA)
Creative Engineering Consultants
Construction of Detour Road Hayatabad Remaining Portion (Phase-II)
(WMIL)
Reference # CED/TFL **37210** (Dr. M Rizwan Riaz)
Reference of the request letter # CEC/D-R/RE/2021-09

Dated: 14-10-2021
Dated: 12-10-2021

Graph (Page – 3/3)



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

Ref: CED/TFL/10/37212

Dated: 14-10-2021

Date of Test: 15-10-2021

To,
M/S Birudo Engineers
Lahore

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/10/37212 (Page # 1/1)

Reference to your Letter No. Nil, Dated: 14/10/2021 on the subject cited above. One Pressure Gauge No. 837-1 (3) as received by us has been calibrated. The results are tabulated as under:

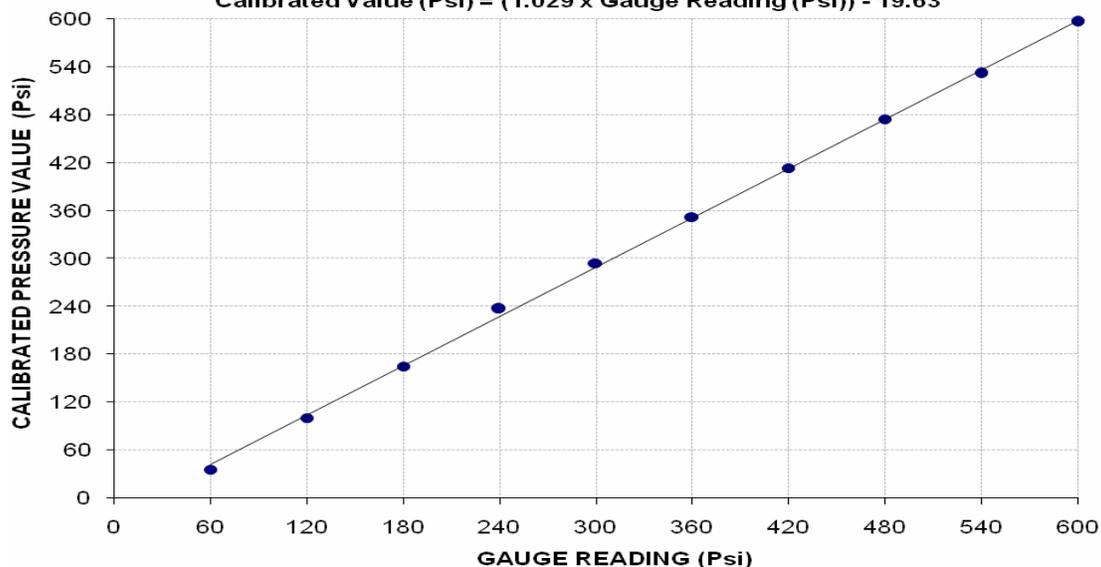
Total Range : Zero - 1000 (Psi)
Calibrated Range : Zero - 600 (Psi)

Gauge Reading (Psi)	60	120	180	240	300	360	420	480	540	600
Calibrated Load (k g)	500	1400	2300	3300	4100	4900	5750	6600	7400	8300
Calibrated Pressure (Psi)	36	101	165	237	295	352	413	474	532	596

The Ram Area use for Calibration = 198 cm²

Calibration Curve for Pressure Gauge No. 837-1 (3)

Calibrated Value (Psi) = (1.029 x Gauge Reading (Psi)) - 19.63



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,
 Procurement Head
 Albario Engineering Private Limited
 Construction at Mangla Rehabilitation Project Site.

Reference # CED/TFL **37213** (Dr. M Rizwan Riaz)
 Reference of the request letter # AEPL/TR/UET/0215

Dated: 14-10-2021
 Dated: 07-10-2021

Tension Test Report (Page -1/1)

Date of Test 15-10-2021
 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	0.396	3	0.385	0.11	0.117	3700	5000	74200	69980	100200	94600	1.00	12.5	
2	0.391	3	0.383	0.11	0.115	3700	5000	74200	70880	100200	95800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

- 1- You can See your reports On Internet in the following web site
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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/10/37214
Dated of Test: 15-10-2021

Dated: 14-10-2021

To,
M/S Amjad Engineering Services
Lahore

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/10/37214) (Page -1/2)

Reference to your Letter No. Nil, Dated: 14/10/2021 on the subject cited above. One Pressure Gauge No. AES-315 as received by us has been calibrated. The results are tabulated as under:

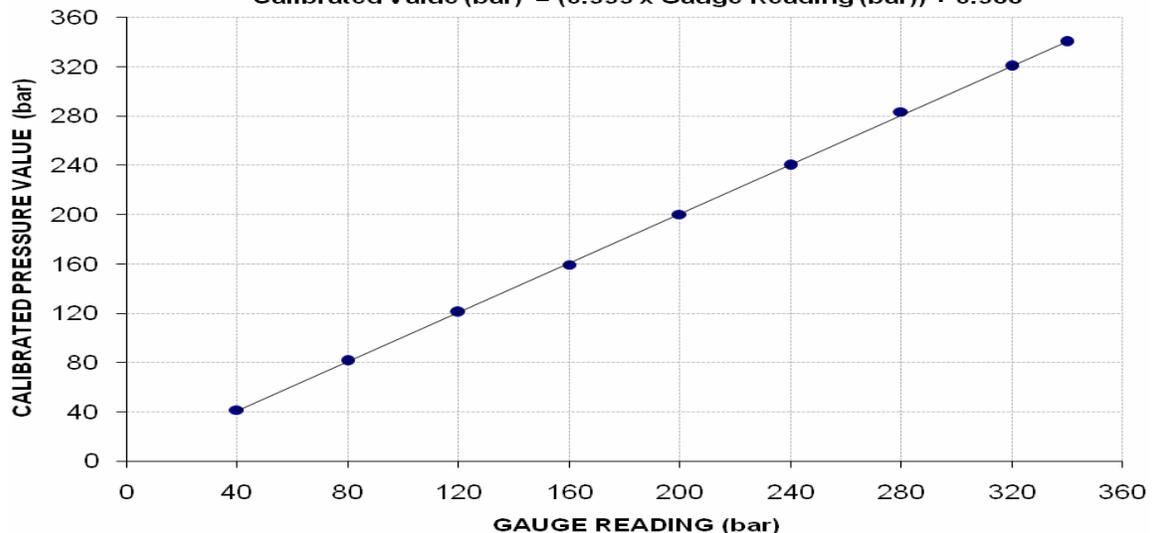
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 340 (bar)

Pressure Gauge Reading (bar)	40	80	120	160	200	240	280	320	340
Calibrated Load (kg)	8400	16400	24400	32200	40400	48500	57200	64700	68700
Calibrated Pressure (bar)	42	81	121	159	200	240	283	320	340

The Ram Area use for Calibration = 198 cm²

Calibration Curve for Pressure Gauge No. AES-315

Calibrated Value (bar) = (0.999 × Gauge Reading (bar)) + 0.988



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

Ref: CED/TFL/10/37214
Dated of Test: 15-10-2021

Dated: 14-10-2021

To,
M/S Amjad Engineering Services
Lahore

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/10/37214) (Page -2/2)

Reference to your Letter No. Nil, Dated: 14/10/2021 on the subject cited above. One Pressure Gauge No. AES-316 as received by us has been calibrated. The results are tabulated as under:

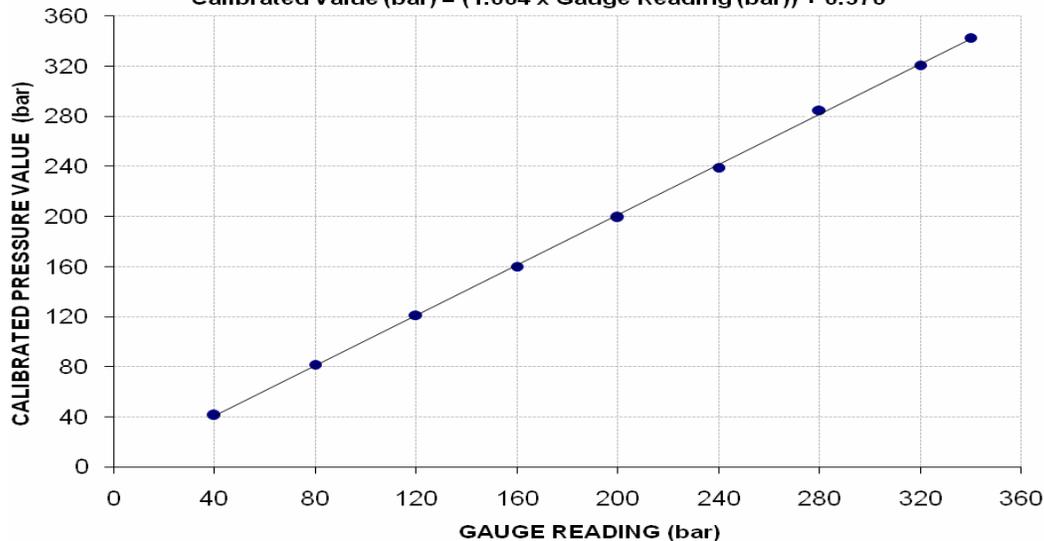
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 340 (bar)

Pressure Gauge Reading (bar)	40	80	120	160	200	240	280	320	340
Calibrated Load (kg)	8300	16500	24500	32300	40200	48300	57500	64800	69200
Calibrated Pressure (bar)	41	82	121	160	199	239	285	321	343

The Ram Area use for Calibration = 198 cm²

Calibration Curve for Pressure Gauge No. AES-316

Calibrated Value (bar) = (1.004 × Gauge Reading (bar)) + 0.376



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,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL 37217 (Dr. M Rizwan Riaz)
 Reference of the request letter # ST/UET/20211015

Dated: 15-10-2021
 Dated: 15-10-2021

Tension Test Report (Page -1/1)

Date of Test 15-10-2021
 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	0.365	3	0.369	0.11	0.107	3000	4800	60200	61690	96200	98700	1.20	15.0	Batala Premium
2	0.373	3	0.374	0.11	0.110	3200	5000	64200	64340	100200	100600	1.20	15.0	
3	0.369	3	0.371	0.11	0.108	3200	4900	64200	65090	98200	99700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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:

- 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
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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,
 Chief Engineer
 Zaitoon
 New Lahore City,
 Lahore

Reference # CED/TFL **37219** (Dr. Asad Ali)
 Reference of the request letter # NLC/CE/01

Dated: 15-10-2021
 Dated: 14-10-2021

Tension Test Report (Page -1/1)

Date of Test 15-10-2021
 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	0.108	4000	5170	80200	81270	103600	105100	1.10	13.8	Model Steel
2	0.369	3	0.371	0.11	0.108	3740	5020	75000	76070	100600	102100	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:

- 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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