

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

Ref: CED/TFL/11/37394 Dated: 19-11-2021

Dated of Test: 24-11-2021

To M/S Etihad Town (Pvt) Ltd. Raiwind Road Lahore

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/11/37394) (Page # 1/3)

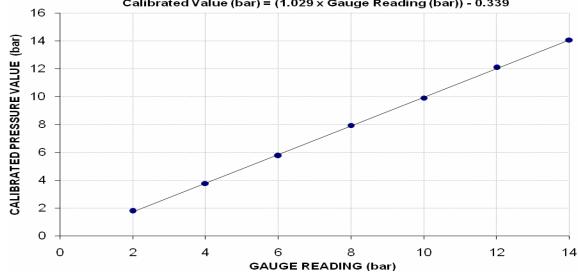
Reference to your Letter No. Nil, Dated: 06/11/2021 on the subject cited above. One Pressure Gauge No. 1 as received by us has been calibrated. The results are tabulated as under:

> **Total Range** Zero -16 (bar) Calibrated Range: Zero -14 (bar)

Pressure Gauge Reading (bar)	2	4	6	8	10	12	14
Calibrated Load (kg)	360	760	1160	1600	2000	2440	2840
Calibrated Pressure (bar)	1.78	3.76	5.75	7.92	9.91	12.09	14.07

The Ram Area of Calibration = 198 cm²

Calibration Cure for Pressure Gauge No. 1 Calibrated Value (bar) = (1.029 x Gauge Reading (bar)) - 0.339 16



I/C Testing Laboratoires **UET Lahore, Pakistan.**

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To M/S Etihad Town (Pvt) Ltd. Raiwind Road Lahore

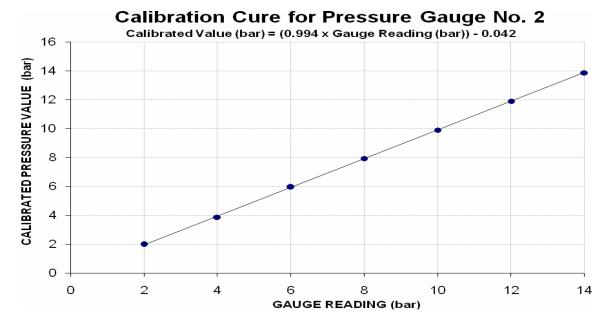
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/11/37394) (Page # 2/3)

Reference to your Letter No. Nil, Dated: 06/11/2021 on the subject cited above. One Pressure Gauge No. 2 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 16 (bar) Calibrated Range : Zero - 14 (bar)

Pressure Gauge Reading (bar)	2	4	6	8	10	12	14
Calibrated Load (kg)	400	780	1200	1600	2000	2400	2800
Calibrated Pressure (bar)	1.98	3.86	5.94	7.92	9.91	11.89	13.87

The Ram Area of Calibration = 198 cm²



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To M/S Etihad Town (Pvt) Ltd. Raiwind Road Lahore

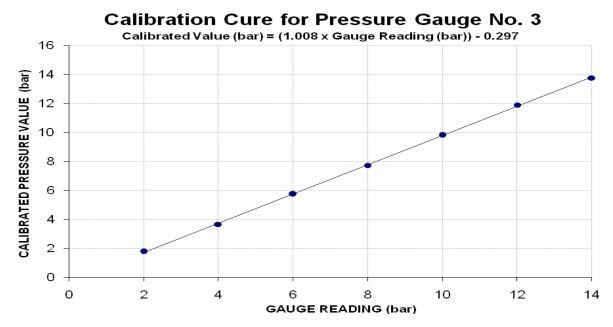
Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/11/37394) (Page # 3/3)

Reference to your Letter No. Nil, Dated: 06/11/2021 on the subject cited above. One Pressure Gauge No. 3 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 16 (bar) Calibrated Range : Zero - 14 (bar)

Pressure Gauge Reading (bar)	2	4	6	8	10	12	14
Calibrated Load (kg)	360	740	1160	1560	1980	2400	2780
Calibrated Pressure (bar)	1.78	3.67	5.75	7.73	9.81	11.89	13.77

The Ram Area of Calibration = 198 cm²



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

To,
Assistant Engineer
ECSP Tribal Area DG Khan
Provision of Clean Drinking Water by Aab-e-Pak Authority (Phase 1) South Zone Tribal Area

DG Khan

Reference # CED/TFL <u>37407 (Dr. Ali Ahmed)</u>
Reference of the request letter # ECSP-PAPA/SOUTH-DGK/ARE/01
Dated: 23-11-2021
Dated: 18-10-2021

Tension Test Report (Page -1/1)

Date of Test 24-11-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ize ch)	Area (in²)				Yield Stress (psi)			e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
1	0.383	3/8	0.378	0.11	0.112	3400	4300	68200	66620	86200	84300	1.20	15.0	
-	-	ı	-	-	-	1	-	-	-	-	-	-	1	
-	-	ı	-	-	-	ı	-	-	-	-	-	-	ı	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	ı	-	-	-	ı	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly one s	sample fo	or tensile	and one	sample f	or bend t	est	1		
							D 17	<u> </u>						<u> </u>
3/8	" Dia Ba	ar Bend	Test Tl	nrough	180° is \$	Satisfacto	Bend T ory	est						

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, Chairman ABS Developers Pvt. Ltd Bahria Town, Lahore

Reference # CED/TFL <u>37408 (Dr. Ali Ahmed)</u>
Reference of the request letter # Nil

Dated: 23-11-2021 Dated: 23-11-2021

Tension Test Report (Page -1/1)

Date of Test 24-11-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze ch)		Area (in²)		Yield load Breaking Load Load				Elongation	% Elongation	Remarks	
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
1	0.377	3/8	0.375	0.11	0.111	3200	5000	64200	63720	100200	99600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
			N	ote: on	ly one s	sample fo	r tensile	and one	sample f	or bend t	est	ı		
							D 15							
3/8	" Dia Ba	ır Bend	Test Th	rough	180° is \$	Satisfacto	Bend T ry	est						

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

To, Sr. Project Manager Izhar Group of Companies Construction of Nestle Head Office

Reference # CED/TFL **37411** (Dr. Ali Ahmed)

Reference of the request letter # ICPL/NHO/LAB/07

Dated: 23-11-2021

Dated: 23-11-2021

Tension Test Report (Page -1/1)

Date of Test 24-11-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ze m)		Area (in²)					Stress si)	Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R	
1	0.375	10	9.52	0.12	0.110	3900	4800	71650	77960	88184	96000	1.10	13.8	la l	
2	0.375	10	9.52	0.12	0.110	3900	4900	71650	77890	90021	97900	1.20	15.0	Mughal Steel	
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	_	-	-	-	-	-	-		
-	-	-	-	-	-	-	_	-	-	-	-	-	-		
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	1			
							Bend T	est							
10r	nm Dia	Bar Bei	nd Test	Throug	h 180° i	s Satisfac	etory								

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 - 2 ACES Sector- H,

Civil Infrastructure Development Works DHA Multan

Reference # CED/TFL <u>37412 (Dr. Ali Ahmed)</u>

Reference of the request letter # ACES-DHAM-NLC-044

Dated: 23-11-2021

Tension Test Report (Page -1/1)

Date of Test 24-11-2021 Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Si	neter/ ize um)	Area (in²)		Yield load	Yield load Breaking Load Load		Stress Ultimate si) (psi		50		% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.413	10	9.98	0.12	0.121	4600	5500	84510	83540	101044	99900	0.80	10.0	eli el
2	0.413	10	9.99	0.12	0.121	4600	5400	84510	83460	99207	98000	0.60	7.5	Amreli steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend 1	test			
													<u> </u>	
							Bend T	est						
101	nm Dia	Bar Bei	nd Test	Throug	h 180° i	s Satisfac	ctory							

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