



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

To,  
Engineer in Charge  
Punjab Model Bazaars Management Company  
Establishment of Model Bazaar at Pakpattan & Bhakkar

Reference # CED/TFL **372645** (Dr. Ali Ahmed)

Dated: 28-10-2021

Reference of the request letter # CS/2/PKPTN/NMB/CONS/NOC/03/6

Dated: 28-10-2021

**Tension Test Report** (Page – 1/1)

Date of Test 29-10-2021

Gauge length 2 inches

Description Plate Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	-----	(mm)	(mm <sup>2</sup> )	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	Plate Steel Strip	27.90x2.25	62.78	17.50	20.70	279	330	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only One Sample for Tensile Test</b>										
<b>Bend Test</b>										

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

Note:

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2. The above results pertain to sample /samples supplied to this laboratory.
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To,  
 Sr. Project Manager  
 Izhar Group of Companies  
 Construction of Nestle Head Office

Reference # CED/TFL 37273 (Dr. Ali Ahmed)  
 Reference of the request letter # ICPL/NHO/LAB/05

Dated: 29-10-2021  
 Dated: 29-10-2021

**Tension Test Report** (Page -1/1)

Date of Test 29-10-2021  
 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 <sup>2</sup> )		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	0.424	10	10.12	0.12	0.125	4380	5730	80468	77400	105270	101300	1.20	15.0	Mughal Steel
2	0.425	10	10.13	0.12	0.125	4380	5710	80468	77330	104902	100900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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

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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Construction of 1 Kanal Houses NGV DRGCC DHA Phase-VI) – (M/s Linker Developers (Pvt) Ltd)  
Reference # CED/TFL **37276** (Dr. M Rizwan Riaz) Dated: 29-10-2021  
Reference of the request letter # 408/241/E/Lab/150/128 Dated: 29-10-2021

**Tension Test Report** (Page -1/1)

Date of Test 29-10-2021  
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 <sup>2</sup> )		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	0.364	3	0.369	0.11	0.107	4840	5830	97000	99790	116900	120300	0.70	8.8	Afco Steel
2	0.365	3	0.370	0.11	0.107	4940	5730	99000	101520	114900	117800	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
<b>Bend Test</b>														
#3 Bar Bend Test Through 180° is Satisfactory														

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**UET Lahore, Pakistan.**

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Ref: CED/TFL/10/37277

Dated: 29-10-2021

Dated of Test: 29-10-2021

To  
Deputy Director (QCD)  
Water & Sanitation Agency  
Faisalabad  
(M/s Saleem Engineer RCC Pipe Manufacturing Factory Plot # 20 Madina City,  
Malkhnawala, Faisalabad)

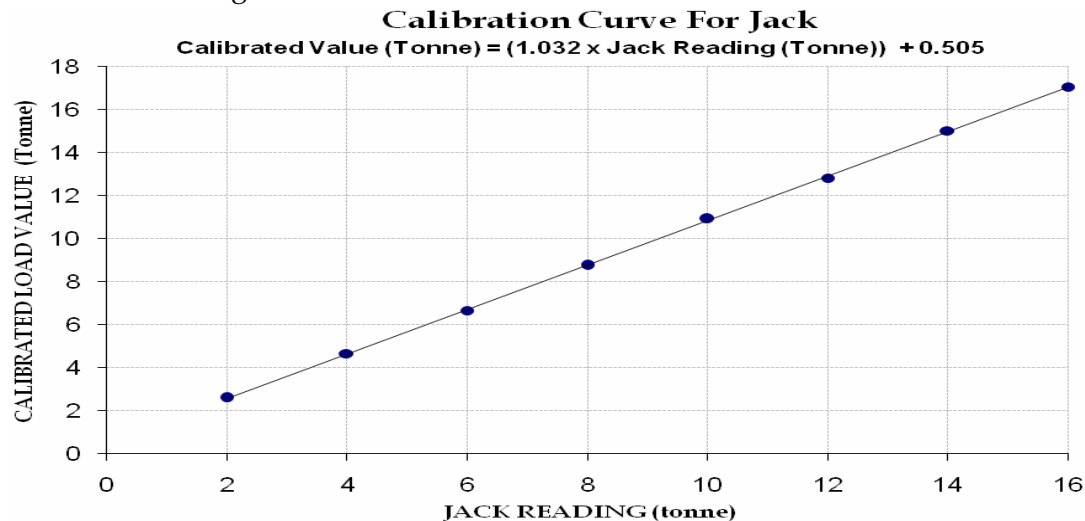
Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE  
(MARK: TFL/10/37277)

Reference to your Letter No. 440-444/DD (QCD)/WASA/2021, Dated: 18/09/2021 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 20 (Tonne)**  
**Calibrated Range : Zero - 16 (Tonne)**

Hydraulic Jack Reading (Tonne)	2	4	6	8	10	12	14	16
kg	2600	4650	6650	8750	10900	12800	15000	17050
Tonne	2.60	4.65	6.65	8.75	10.90	12.80	15.00	17.05

1 Tonne = 1000 kg



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To,  
 Chief Engineer  
 Zaitoon  
 New Lahore City,  
 Lahore

Reference # CED/TFL **37278** (Dr. M Rizwan Riaz)  
 Reference of the request letter # NLC/CE/Const/02

Dated: 29-10-2021  
 Dated: 25-10-2021

**Tension Test Report** (Page -1/1)

Date of Test 29-10-2021  
 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 <sup>2</sup> )		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	0.373	3	0.373	0.11	0.110	3490	5170	70000	70220	103600	104100	1.00	12.5	Moiz Steel
2	0.372	3	0.373	0.11	0.109	3520	5200	70600	70940	104200	104800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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