



**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 Meezan Developers  
Lahore  
(Jamia Tur Rasheed Lahore Campus.)

Reference # CED/TFL **4652** (Dr. M Rizwan Riaz)  
Reference of the request letter # Nil

Dated: 16-02-2024  
Dated: 16-02-2024

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

Date of Test 19-02-2024  
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	0.363	3	0.369	0.11	0.107	3500	4600	70200	72320	92200	95100	1.20	15.0	
2	0.363	3	0.369	0.11	0.107	3500	4600	70200	72200	92200	94900	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														

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

Note:

- 1- You can See your reports On Internet in the following web site  
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- 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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To,

Resident Engineer  
AZ Engineering Associates  
Rehabilitation & Repair Road Sook Kalan Stop to Union Council Office Length = 1.60  
km in District Gujrat.

Reference # CED/TFL **4654** (Dr. M Rizwan Riaz)  
Reference of the request letter # RE AZEA/GT-886

Dated: 16-02-2024  
Dated: 30-01-2024

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

Date of Test 19-02-2024  
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	0.375	3	0.375	0.11	0.110	3000	4700	60200	60020	94200	94100	1.30	16.3	
2	0.376	3	0.375	0.11	0.110	3600	4900	72200	71880	98200	97900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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Ref: CED/TFL/02/4555

Dated: 25-01-2024

Dated of Test: 19-02-2024

To

**Deputy Director (QCD)**  
**Water and Sanitation Agency**  
**Faisalabad**  
(M/s Rasheed RCC Pipe Manufacturing Factory, Daewoo Road, near Saim Nala, Faisalabad.)

**Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE**  
**(MARK: TFL/02/4555)**

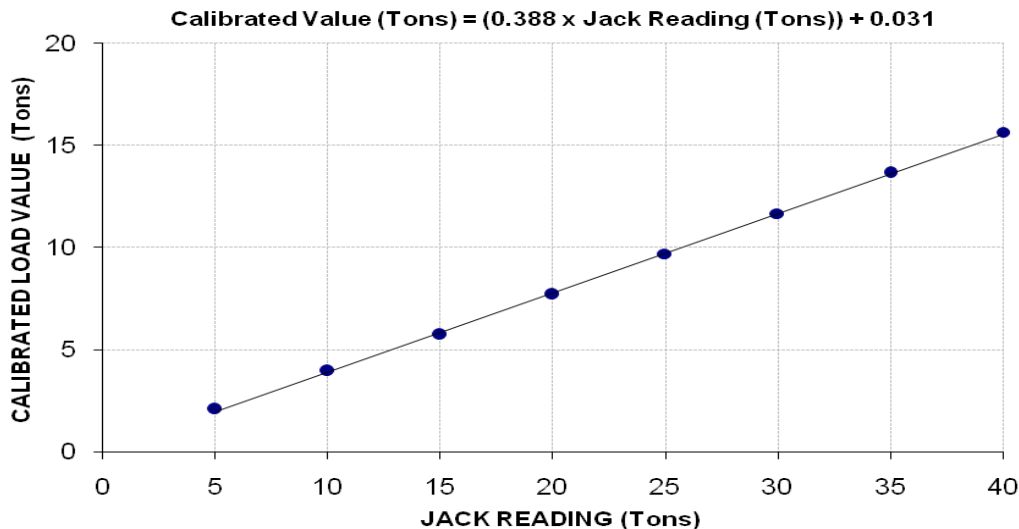
Reference to your Letter No. 26/DD(QCD)/WASA/2024, Dated: 25/01/2024 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 50 (Ton)**  
**Calibrated Range : Zero - 40 (Ton)**

Hydraulic Jack Reading (Ton)	5	10	15	20	25	30	35	40	
Calibrated Load	(kg)	1900	3600	5200	7000	8800	10600	12400	14200
	(Ton)	2.1	4.0	5.7	7.7	9.7	11.7	13.7	15.6

1000 Kg = 1.1011 Ton

**Calibration Curve For Jack**



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**Pakistan. Ph: 92-42-99029202**

Ref: CED/TFL/02/4659

Dated: 19-02-2024

Dated of Test: 19-02-2024

To

**Deputy Director (QCD)**  
**Water and Sanitation Agency**  
**Faisalabad**  
**(M/s Fazal Concrete RCC Pipe Manufacturing Factory Malkhanwala Road near**  
**Drand Iconic City, Faisalabad)**

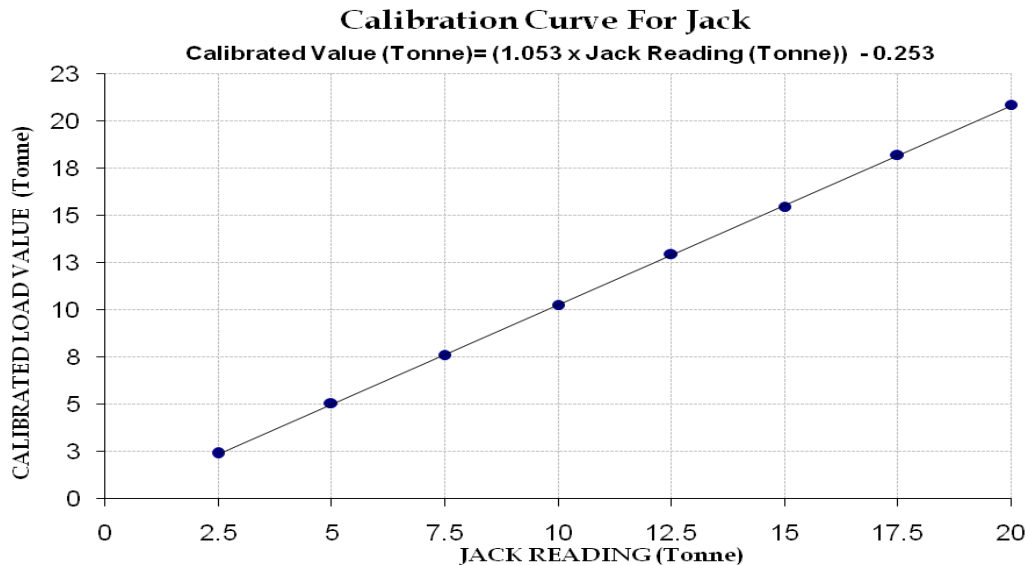
Subject: - **CALIBRATION OF HYDRAULIC JACK. (MARK: TFL/02/4659)**

Reference to your Letter No. 27/DD (QCD)/WASA/2024, Dated: 25/01/2024 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 - 25 (Tonne)**  
**Calibrated Range : Zero - 20 (Tonne)**

Hydraulic Jack Reading (Tonne)		2.50	5.00	7.50	10.00	12.50	15.00	17.50	20.00
Calibrated Load	(kg)	2400	5050	7600	10250	12950	15450	18200	20850
	(Tonne)	2.40	5.05	7.60	10.25	12.95	15.45	18.20	20.85

1 Tonne = 1000 kg



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To,  
M/S Amanah Noor Residence  
Lahore

Reference # CED/TFL **4660** (Dr. Safer Abbass)  
Reference of the request letter # Nil

Dated: 19-02-2024  
Dated: 19-02-2024

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

Date of Test 19-02-2024  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in <sup>2</sup> )		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.389	3	0.382	0.11	0.114	3600	5600	72200	69410	112300	108000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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