



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
G3 Engineering Consultant (Pvt) Ltd.
Consultancy Services for Master Planning Designing and Resident Type Supervision of
The Scheme Strengthening of University of Narowal.

Reference # CED/TFL **4130** (Dr. Usman Akmal)
Reference of the request letter # G3/237/RE/62

Dated: 30-10-2023
Dated: 02-10-2023

Tension Test Report (Page -1/1)

Date of Test 31-10-2023
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	0.365	3	0.370	0.11	0.107	3400	4500	68200	69760	90200	92400	1.40	17.5	Mughal Steel
2	0.365	3	0.370	0.11	0.107	3400	4500	68200	69810	90200	92400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.
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To,
M/S Meezan Developers
Lahore
(Construction of Jamia tur Rasheed Lahore Campus.)

Reference # CED/TFL **4134** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 30-10-2023
Dated: 30-10-2023

Tension Test Report (Page -1/1)

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		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.368	3	0.371	0.11	0.108	3500	4700	70200	71420	94200	95900	1.30	16.3	
2	0.366	3	0.370	0.11	0.108	3600	4700	72200	73680	94200	96200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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To,
 Project Manager
 Zaheer Associate
 Lahore City College Zafarwal.

Reference # CED/TFL **4135** (Dr. Usman Akmal)
 Reference of the request letter # Z.A/A.R/39-23

Dated: 30-10-2023
 Dated: 30-10-2023

Tension Test Report (Page -1/1)

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		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.370	3	0.372	0.11	0.109	3000	5100	60200	60840	102200	103500	1.20	15.0	Mehmooob Steel
2	0.366	3	0.370	0.11	0.108	3100	5100	62200	63490	102200	104500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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To,
Manager Construction
Aziz Fatima Medical & Dental College, Faisalabad
Canal View Hospital Faisalabad

Reference # CED/TFL **4138** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 30-10-2023
Dated: 30-10-2023

Tension Test Report (Page -1/1)

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Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

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		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.392	3	0.383	0.11	0.115	4500	5300	90200	85990	106200	101300	0.90	11.3	
2	0.394	3	0.384	0.11	0.116	4500	5300	90200	85990	106200	100900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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Ref: CED/TFL/10/4140

Dated: 30-10-2023

Dated of Test: 31-10-2023

To

Assistant Director (QCD)
WASA, LDA, Lahore
(M/s Future Pipe Industry Gujranwala)

Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE
(MARK: TFL/10/4140)

Reference to your Letter No. QCD/1714-15, Dated: 25/10/2023 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

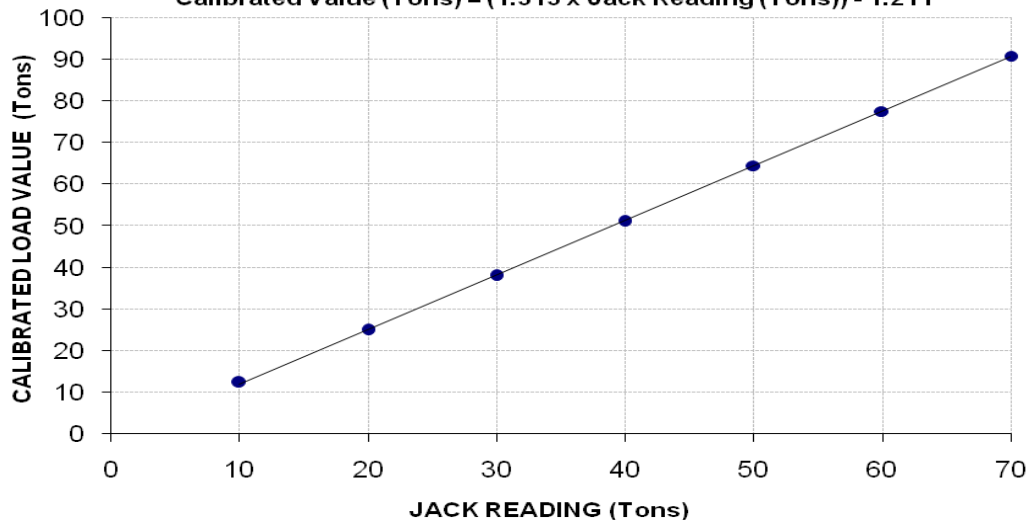
Total Range : Zero - 70 (Ton)
Calibrated Range : Zero - 50 (Ton)

Hydraulic Jack Reading (Ton)		5	10	15	20	25	30	35	40	45	50
Calibrated Load	(kg)	5700	10800	15800	20900	26100	31200	36400	41600	46800	52000
	(Ton)	6	12	17	23	29	34	40	46	52	57

1000 Kg = 1.1011 Ton

Calibration Curve For Jack

Calibrated Value (Tons) = (1.313 x Jack Reading (Tons)) - 1.211



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