



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
 Metroplan-Asian Jv
 Resident Construction Supervision for Establishment of 200 Bedded Mother & Child Hospital
 and Nursing College, District Mianwali

Reference # CED/TFL **35213** (Dr. Qasim Khan) Dated: 13-08-2020
 Reference of the request letter # Metroplan Asian Jv-Nexus-MMCH-RE-369 Dated: 11-08-2020

Tension Test Report (Page -1/1)

Date of Test 17-08-2020

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	4.540	10	1.304	1.27	1.334	31000	48600	53800	51200	84400	80300	2.30	28.8	SJ Steel
2	4.523	10	1.301	1.27	1.330	31000	48800	53800	51390	84700	80900	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
M/S Tariq Zia & Co.
Lahore
Construction of PET-CT Suit at Shaukat Khanum Hospital Lahore

Reference # CED/TFL **35215** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 13-08-2019
Dated: 10-08-2019

Tension Test Report (Page -1/1)

Date of Test 17-08-2020

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	0.433	3/8	0.403	0.11	0.127	4080	5780	81800	70620	115900	100100	1.20	15.0	
2	0.434	3/8	0.403	0.11	0.127	4150	5760	83200	71780	115500	99700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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UET Lahore, Pakistan.

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To,
M/S Moaz Steel
Lahore
(CGGC-DESCON Jv Muhammad Dam Project)

Reference # CED/TFL **35216** (Dr. Qasim Khan)
Reference of the request letter # MZ/CGGC-DES/MD/UET/023

Dated: 12-08-2020
Dated: 12-082020

Tension Test Report (Page – 1/1)

Date of Test 17-08-2020
Gauge length 2 inches
Description Plate Washer 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 ²)	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	Plate Washer	40.50x12.00	486.00	195.50	250.20	402.26	514.81	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Sr. Project Manager
 Izhar Construction (Pvt) Ltd
 Construction of Structural Works of Dolmen Shopping Mall, Lahore

Reference # CED/TFL **35217** (Dr. Qasim Khan) Dated: 13-08-2019
 Reference of the request letter # ICPL/CONST-DML/20/17 Dated: 13-08-2019

Tension Test Report (Page -1/1)

Date of Test 17-08-2020

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	0.405	10	9.88	0.12	0.119	4510	5300	82856	83590	97370	98300	0.80	10.0	Amerli Steel
2	0.407	10	9.92	0.12	0.120	4250	5220	78080	78220	95900	96100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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To,
 Sr. Project Manager
 Ittefaq Construction Associates
 Construction of Ware House Building, Humble Tex Pvt. Ltd., Lahore

Reference # CED/TFL **35218** (Dr. Qasim Khan)
 Reference of the request letter # ICA/H.T/12

Dated: 13-08-2019
 Dated: 13-08-2019

Tension Test Report (Page -1/1)

Date of Test 17-08-2020

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	0.375	3	0.375	0.11	0.110	3690	4960	74000	73820	99400	99300	1.20	15.0	
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Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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To,
 Asstt: Executive Engineer-I
 Central Civil Division No. I
 Pak P.W.D., Lahore
 (Construction of Double Storey Ladies Hostel with Provision of Third Storey alongwith Mess,
 Recreation Hall and Allied Facilities at Allama Iqbal International Airport Lahore (AIIAP)

Reference # CED/TFL **35219** (Dr. Qasim Khan) Dated: 13-08-2019
 Reference of the request letter # AEE-I/LCCD-I/53-ASF/08 Dated: 29-06-2019

Tension Test Report (Page -1/1)

Date of Test 17-08-2020

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	0.377	3/8	0.376	0.11	0.111	4200	5320	84200	83490	106600	105800	0.90	11.3	
2	0.382	3/8	0.378	0.11	0.112	4230	5370	84800	83110	107600	105500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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Ref: CED/TFL/08/35227

Dated: 17-08-2020

Dated of Test: 17-08-2020

To
M/S Hammad Pipe Factory
Lahore

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/35227)**

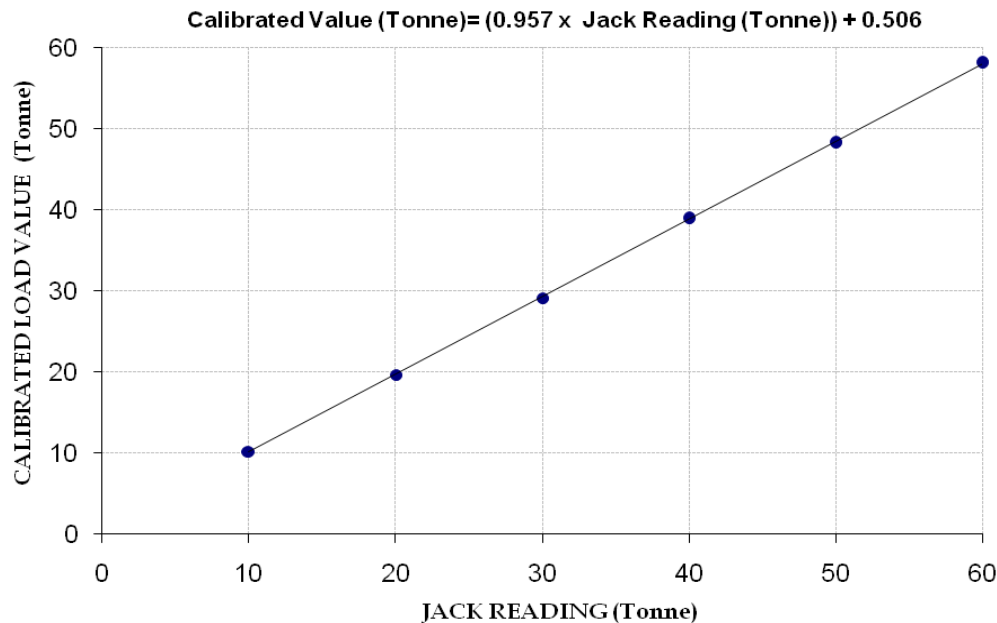
Reference to your Letter No. Nil, Dated: 13/08/2020 on the subject cited above. One Hydraulic Jack as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 100 (Tonne)
Calibrated Range : Zero - 60 (Tonne)

Hydraulic Jack Reading (Tonne)		10	20	30	40	50	60
Calibrated Load	(kg)	10200	19600	29100	38900	48200	58100
	Tonne	10.20	19.60	29.10	38.90	48.20	58.10

1 Tonne = 1000 Kg

Calibration Curve For Jack



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