



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

Ref: CED/TFL/08/35286

Dated: 27-08-2020

Dated of Test: 28-08-2020

To,  
M/S Rauf Aziz Construction Company  
Faizabad – Eshkashim Road Project (108 km Baharak – Eshkhashim Section)

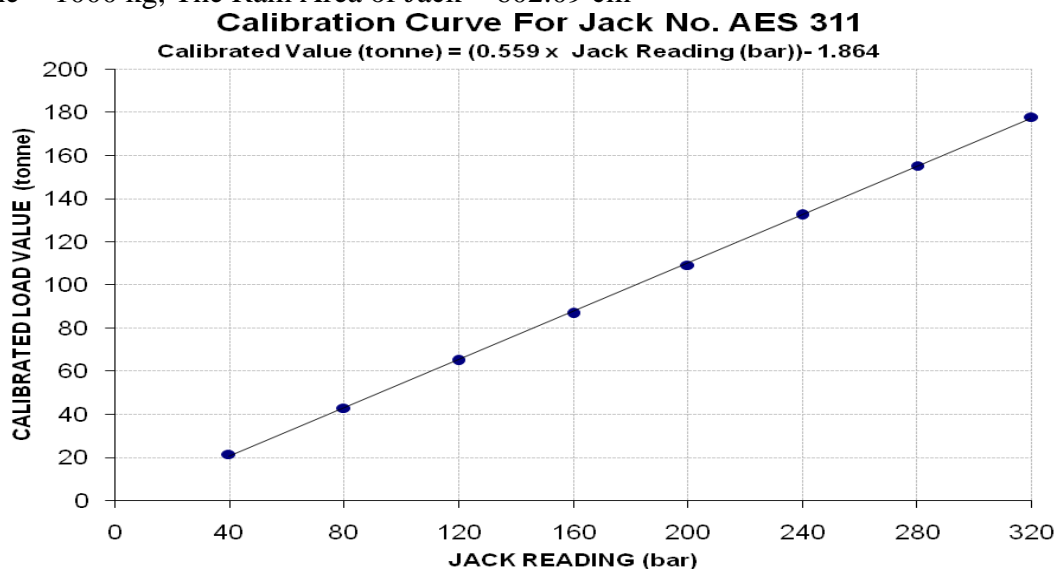
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/08/35286)

Reference to your Letter No. Nil, Dated: 27/08/2020 on the subject cited above. One Hydraulic Jack (Jack No 311, Gauge No. AES-311) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 600 (bar)**  
**Calibrated Range : Zero - 320 (bar)**

Hydraulic Jack Reading (bar)	40	80	120	160	200	240	280	320	
Calibrated Load	(kg)	21600	43000	65000	86800	109200	132400	155400	178000
	Tonne	21.60	43.00	65.00	86.80	109.20	132.40	155.40	178.00
Calibrated Pressure (bar)	35.18	70.04	105.87	141.38	177.87	215.66	253.12	289.93	

1 Tonne = 1000 kg, The Ram Area of Jack = 602.09 cm<sup>2</sup>



**I/C Testing Laboratories**  
**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](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.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,  
 Project Manager  
 Liberty Builders  
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL **35290** (Dr. Ali Ahmed)  
 Reference of the request letter # ST/UET/20200828

Dated: 28-08-2020  
 Dated: 28-08-2020

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

Date of Test 28-08-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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	0.371	3	0.373	0.11	0.109	3200	4600	64200	64720	92200	93100	1.40	17.5	Afco Steel
2	0.384	3	0.379	0.11	0.113	3400	5200	68200	66420	104200	101600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two sample for tensile test</b>														
Bend Test														

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

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