



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
 Associated Consulting Engineers ACE Limited
 Establishment of Daanish School (Boys & Girls) at Mankera District Bhakkar (M/s ZKHB)

Reference # CED/TFL **36327** (Dr. Nauman Khurram) Dated: 12-04-2021
 Reference of the request letter # ACE/RE-PDS/MNK/BHK/21/401 Dated: 07-04-2021

Tension Test Report (Page -1/1)

Date of Test 14-04-2021
 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	0.383	3/8	0.378	0.11	0.112	3300	5000	66200	64680	100200	98000	1.20	15.0	
2	0.386	3/8	0.380	0.11	0.113	3200	5000	64200	62230	100200	97300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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Ref: CED/TFL/04/36341
Dated of Test: 14-04-2021

Dated: 14-04-2021

To,
Birudo Engineers
Lahore

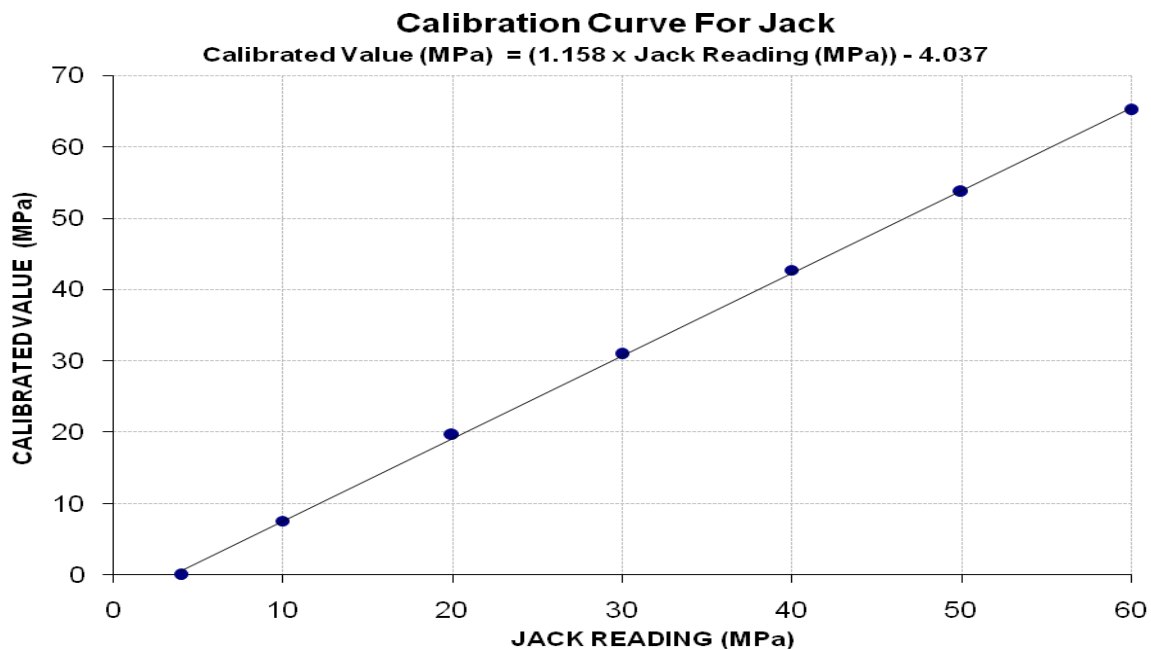
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/04/36341)

Reference to your Letter No. Nil, Dated: 14/04/2021 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 - 100 (MPa)
Calibrated Range : Zero - 60 (MPa)

Hydraulic Jack Reading (MPa)	4	10	20	30	40	50	60
Calibrated Load (kg)	0	5400	14000	22100	30500	38300	46500
Calibrated Pressure (MPa)	0	7.57	19.61	30.96	42.73	53.66	65.15

The Ram Area of Jack = 70 cm²



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To,
 Incharge (Civil)
 For Managing Director
 Sui Northern Gas Pipelines Limited
 Construction of Domestic Meter Inspection Shop at Multan

Reference # CED/TFL **36343** (Dr. Nauman Khurram)
 Reference of the request letter # CC/DMIS/MLN

Dated: 14-04-2021
 Dated: 14-04-2021

Tension Test Report (Page -1/1)

Date of Test 14-04-2021
 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	0.385	3/8	0.379	0.11	0.113	3900	5100	78200	76010	102200	99400	1.00	12.5	
2	0.386	3/8	0.380	0.11	0.114	4000	5100	80200	77610	102200	99000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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