



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/05/36410

Dated: 03-05-2021

Dated of Test: 04-05-2021

To,
M/S Al Azaan Engineering Company
Daharki
(RCC Foundations, Construction and Pilling Work at ENCOF-3E at Engro Fertilizers Ltd Dahrki)

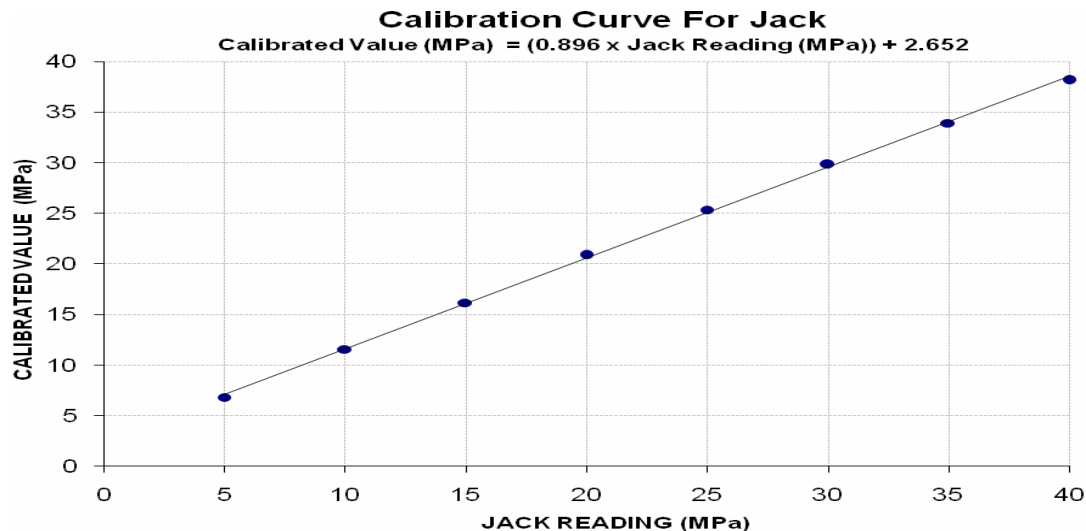
Subject: - CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE (MARK: TFL/05/36410)

Reference to your Letter No. Nil, Dated: 28/04/2021 on the subject cited above. One Hydraulic Jack with Pressure gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 60 (MPa)
Calibrated Range : Zero - 40 (MPa)

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40
Calibrated Load (kg)	22600	38200	53400	69000	83800	98600	112200	126200
Calibrated Pressure (MPa)	6.83	11.55	16.15	20.87	25.34	29.82	33.93	38.16

The Ram Area of Jack = 324.29 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 Engineering Consultancy Services Punjab (Pvt) Ltd
 Supply, Construction, Installation of Water Filtration Plant & Direct Supply in Lahore Division

Reference # CED/TFL **36411** (Dr. Safer Abbass)
 Reference of the request letter # ECSP/PAPA/CZ-LHR-08

Dated: 03-05-2021
 Dated: 26-04-2021

Tension Test Report (Page -1/1)

Date of Test 04-05-2021
 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	0.380	3	0.377	0.11	0.112	3490	4760	70000	68860	95400	94000	1.30	16.3	
2	0.380	3	0.377	0.11	0.112	3470	4710	69600	68390	94400	92900	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.

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To,
 Project Director
 Punjab Government Servants Housing Scheme
 Mohlanwal, Lahore
 (Sector Shops in Punjab Government Servants Housing Scheme Mohlanwal, Lahore)

Reference # CED/TFL **36414, 415** (Dr. Asif Hameed)
 Reference of the request letter # PD/M-17/2021/158

Dated: 03-05-2021
 Dated: 24-04-2021

Tension Test Report (Page -1/1)

Date of Test 04-05-2021
 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	0.380	3/8	0.377	0.11	0.112	4500	5830	90200	88850	116900	115200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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To,
 Construction Manager
 Zameen Aurum
 Construction of Zameen Aurum at Plot No. 15 Block, Gulberg-III, Main Feroze Pur Road,
 Lahore

Reference # CED/TFL **36417** (Dr. Safer Abbass)
 Reference of the request letter # ZD/ZA/STR009

Dated: 04-05-2021
 Dated: 04-05-2021

Tension Test Report (Page -1/1)

Date of Test 04-05-2021
 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	0.374	3	0.374	0.11	0.110	3430	4560	68800	68830	91400	91500	1.30	16.3	
2	0.379	3	0.377	0.11	0.111	3690	4740	74000	73000	95000	93800	1.10	13.8	
3	4.218	10	1.256	1.27	1.240	42600	57800	74000	75730	100400	102800	1.60	20.0	
4	4.268	10	1.264	1.27	1.254	42000	56800	72900	73790	98600	99800	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

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