



**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/12/37540

Dated: 20-12-2021

Dated: 22-12-2021

To  
M/S CGGC Suki Kinari Project Management in Pakistan  
CGGC Suki Kinari Project 874 MW

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/37540) (Page -1/2)

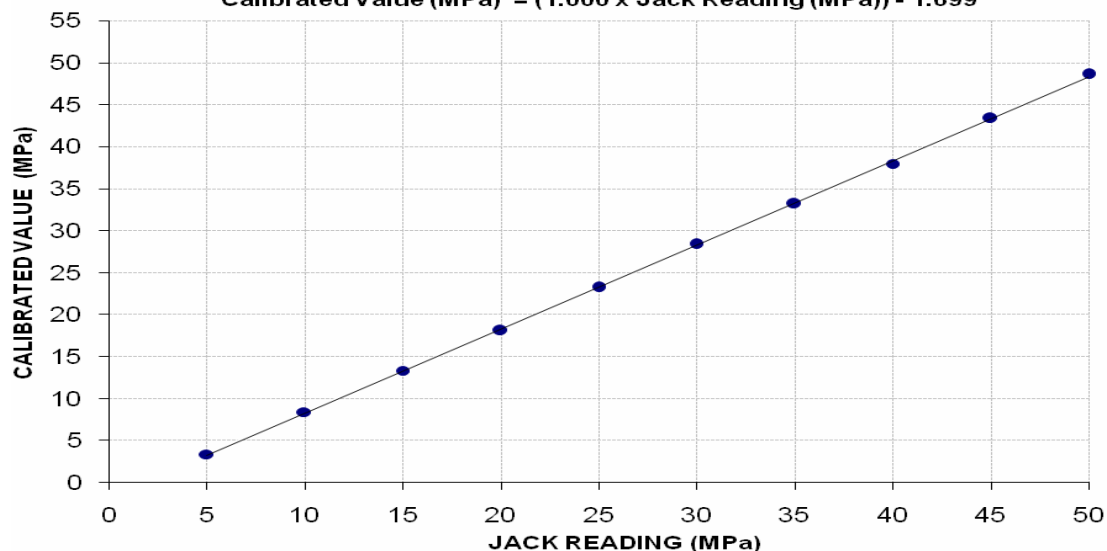
Reference to your Letter No. CGGC-MD-2021.12.001, dated: 13/12/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1411, Gauge No. 2694) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	6600	16400	26000	35200	45200	55200	64600	73800	84400	94600
Calibrated Pressure (Mpa)	3.39	8.43	13.36	18.09	23.23	28.37	33.20	37.93	43.38	48.62

The Ram Area of Jack =  $190.80 \text{ cm}^2$

**Calibration Curve For Jack No. 1411 (Gauge # 2694)**  
**Calibrated Value (MPa) = (1.000 x Jack Reading (MPa)) - 1.699**



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

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
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Dated: 20-12-2021

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To  
M/S CGGC Suki Kinari Project Management in Pakistan  
CGGC Suki Kinari Project 874 MW

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/37540) (Page -2/2)

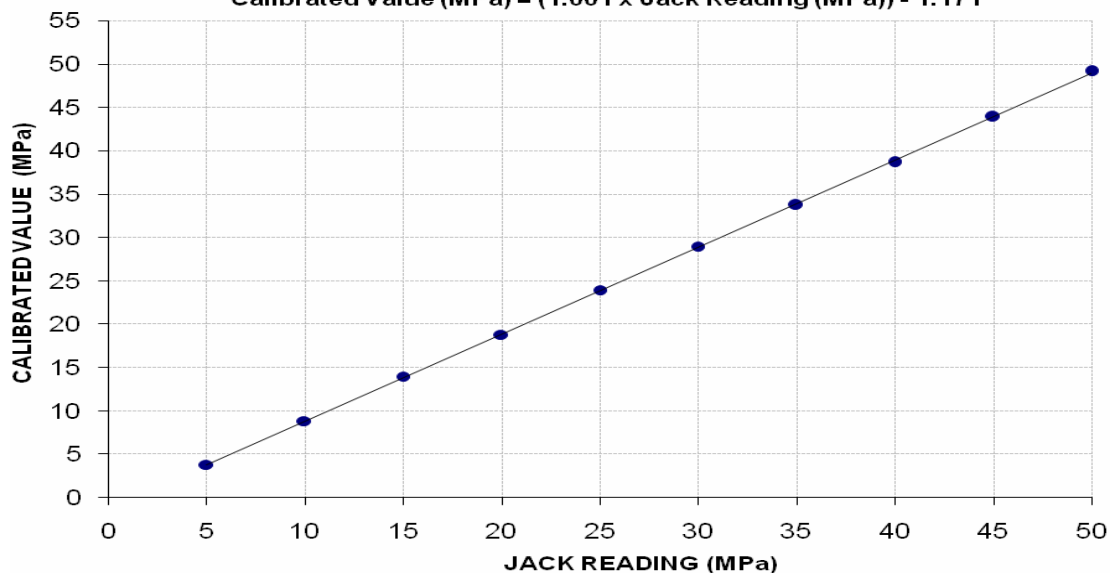
Reference to your Letter No. CGGC-MD-2021.12.001, dated: 13/12/2021 on the subject cited above. One Hydraulic Jack (Jack No. 1411, Gauge No. 2862) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 50 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45	50
Calibrated Load (Kg)	7400	17200	27200	36600	46600	56400	65600	75200	85400	95600
Calibrated Pressure (Mpa)	3.80	8.84	13.98	18.81	23.95	28.99	33.72	38.65	43.90	49.14

The Ram Area of Jack = 190.80 cm<sup>2</sup>

**Calibration Curve For Jack No. 1411 (Gauge # 2862)**  
**Calibrated Value (MPa) = (1.001 x Jack Reading (MPa)) - 1.171**



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

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To,  
 Project Manager  
 Guarantee Engineers (Pvt) Ltd  
 Construction of Beaconhouse School System TNS 2 Gulberg-III Lahore

Reference # CED/TFL **37555** (Dr. Burhan Sharif)  
 Reference of the request letter # TNS/GE/ST/003

Dated: 21-12-2021  
 Dated: 20-12-2021

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

Date of Test 22-12-2021  
 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 <sup>2</sup> )		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	0.412	10	9.97	0.12	0.121	3890	5200	71466	70860	95533	94800	1.30	16.3	
2	0.415	10	10.00	0.12	0.122	3980	5250	73119	72000	96451	95000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

Witness by Tanveer Ahmed (Site Engr.)

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

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 G3 Engineering Consultants (Pvt) Ltd  
 Construction of DHA Newlife Residency Apartments at 273/1 Q Block Phase-II DHA, Lahore

Reference # CED/TFL **37559** (Dr. Usman Akmal)  
 Reference of the request letter # G3/DHA-NLD/RE/013

Dated: 21-12-2021  
 Dated: 20-12-2021

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

Date of Test 22-12-2021  
 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 <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	0.381	3	0.378	0.11	0.112	3700	5100	74200	72780	102200	100400	1.00	12.5	AF Steel
2	0.388	3	0.381	0.11	0.114	3800	5200	76200	73370	104200	100400	0.90	11.3	
3	0.382	3	0.378	0.11	0.112	3900	5300	78200	76520	106200	104000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only three samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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To,  
M/S Ittefaq Building Solutions (Pvt) Ltd  
Lahore  
Reliance Cotton Spinning Mills Ltd (Power House Extension) Ferozewatwan

Reference # CED/TFL **37564** (Dr. Usman Akmal)  
Reference of the request letter # IBS/RPH/01

Dated: 21-12-2021  
Dated: 21-12-2021

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

Date of Test 22-12-2021  
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 <sup>2</sup> )		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	0.415	10	10.02	0.12	0.122	4300	5400	78998	77620	99207	97500	0.90	11.3	
2	0.417	10	10.04	0.12	0.123	4300	5400	78998	77280	99207	97100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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

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To,  
 Mirza Salman Baig  
 Lahore

Reference # CED/TFL **37573** (Dr. M Rizwan Riaz)  
 Reference of the request letter # Nil

Dated: 22-12-2021

Dated: 22-12-2021

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

Date of Test 22-12-2021  
 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 <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	0.370	3	0.372	0.11	0.109	3800	5000	76200	76920	100200	101200	1.20	15.0	
2	0.371	3	0.373	0.11	0.109	3800	5000	76200	76730	100200	101000	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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