



**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/12/2374

Dated: 29-11-2022

Dated of Test: 07-12-2022

To

**Assistant Director (QCD)**  
**WASA, LDA, Lahore**  
**(M/s Allah Hoo Yasir Pipe Factory)**

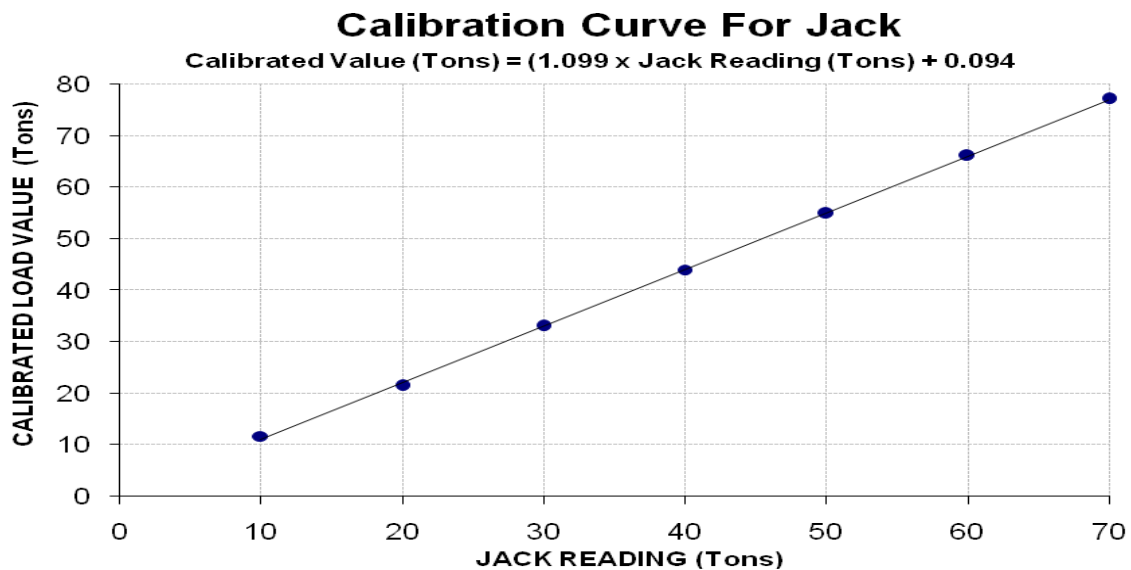
**Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE**  
**(MARK: TFL/12/2374)**

Reference to your Letter No. QCD/2330-31, Dated: 28/11/2022 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 - 200 (Ton)**  
**Calibrated Range : Zero - 70 (Ton)**

Hydraulic Jack Reading (Ton)		10	20	30	40	50	60	70
Calibrated Load	(kg)	10600	19500	30000	40000	49900	60100	70100
	(Ton)	11.67	21.47	33.03	44.04	54.94	66.18	77.19

1000 kg = 1.1011 Ton



**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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Ref: CED/TFL/12/2389

Dated: 02-12-2022

Dated of Test: 07-12-2022

To

**Assistant Director (QCD)**  
**WASA, LDA, Lahore**  
**(M/s Shezone Pipe Industries)**

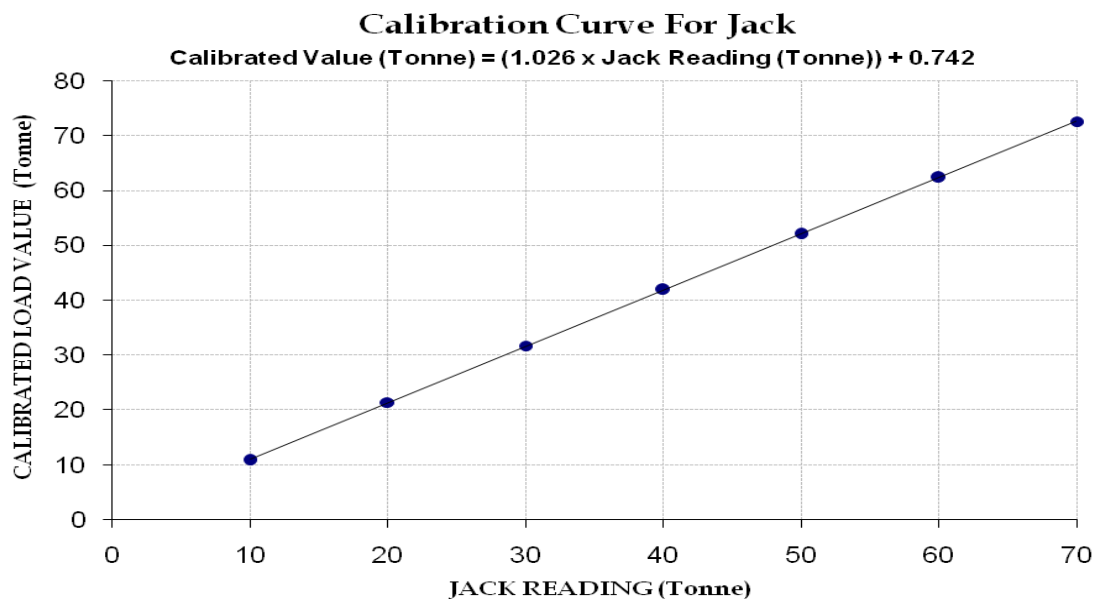
**Subject: - CALIBRATION OF HYDRAULIC JACK WITH GAUGE**  
**(MARK: TFL/12/2389)**

Reference to your Letter No. QCD/2340-41, Dated: 28/11/2022 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 (Tonne)**  
**Calibrated Range : Zero - 70 (Tonne)**

Hydraulic Jack Reading (Tonne)		10	20	30	40	50	60	70
Calibrated Load	(kg)	10800	21400	31700	41900	52000	62300	72600
	(Tonne)	10.80	21.40	31.70	41.90	52.00	62.30	72.60

1 Tonne = 1000 kg



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To,  
 Deputy General Manager Projects  
 Habib Rafiq Engineering (Pvt.) Limited  
 Construction of Sky Gardens Tower, Lahore

Reference # CED/TFL **2415** (Dr. Rizwan Riaz) Dated: 07-12-2022  
 Reference of the request letter # HRLE/SKG/2022/091/2418-19/RETEST Dated: 07-12-2022

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

Date of Test 07-12-2022  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile 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			
01-RE	0.407	10	9.91	0.12	0.120	3100	5200	56952	57110	95533	95800	1.40	17.5	Afco Steel
02-RE	0.406	10	9.90	0.12	0.119	3300	5300	60627	60930	97370	97900	1.40	17.5	
03-RE	0.420	10	10.07	0.12	0.123	3100	5400	56952	55350	99207	96500	1.60	20.0	
04-RE	0.404	10	9.88	0.12	0.119	3800	6800	69812	70510	124927	126200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and two samples for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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

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Ref: CED/TFL/12/2417

Dated: 06-12-2022

Dated: 06-12-2022

To

**M/S China Gezhouba Group Company Limited**  
**Pakistan**

**Construction of Mohmand Dam Hydropower Project - Contract No. ICB MDHP-01,**  
**Construction of Civil Works Including Design, Supply and Installation of Electrical**  
**and Mechanical Works and Hydraulic Steel Structures.**

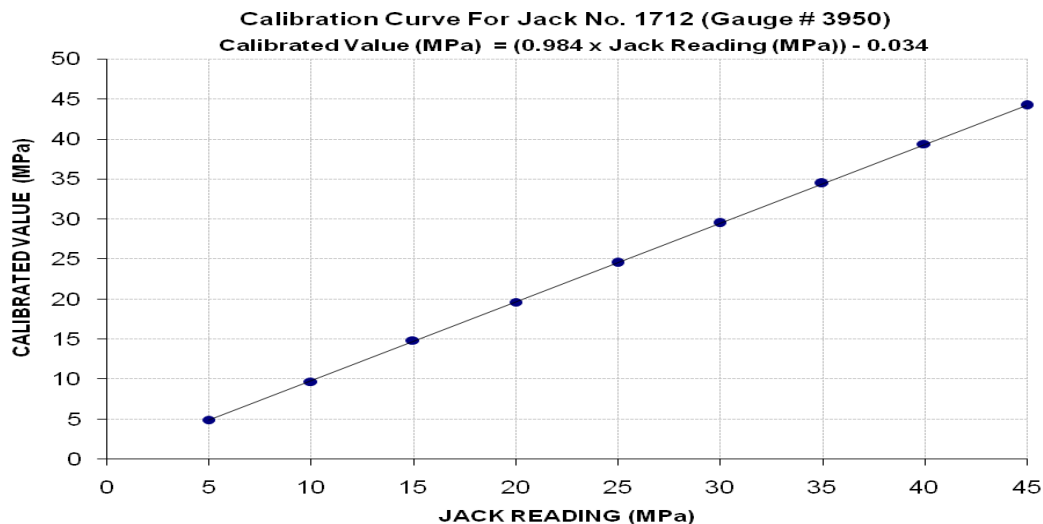
**Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/2417) (Page -1/2)**

Reference to your Letter No. MDSYS-203, dated: 06/12/2022 on the subject cited above. One Hydraulic Jack (Jack No. 1712, Gauge No. 3950, Pump No. 2286) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 45 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	9600	18800	28900	38200	47700	57400	67000	76600	86000
Calibrated Pressure (Mpa)	4.93	9.66	14.85	19.63	24.52	29.50	34.44	39.37	44.20

The Ram Area of Jack = 190.8 cm<sup>2</sup>



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

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Ref: CED/TFL/12/2417

Dated: 06-12-2022

Dated: 06-12-2022

To

**M/S China Gezhouba Group Company Limited**  
**Pakistan**  
**Construction of Mohmand Dam Hydropower Project - Contract No. ICB MDHP-01,**  
**Construction of Civil Works Including Design, Supply and Installation of Electrical**  
**and Mechanical Works and Hydraulic Steel Structures.**

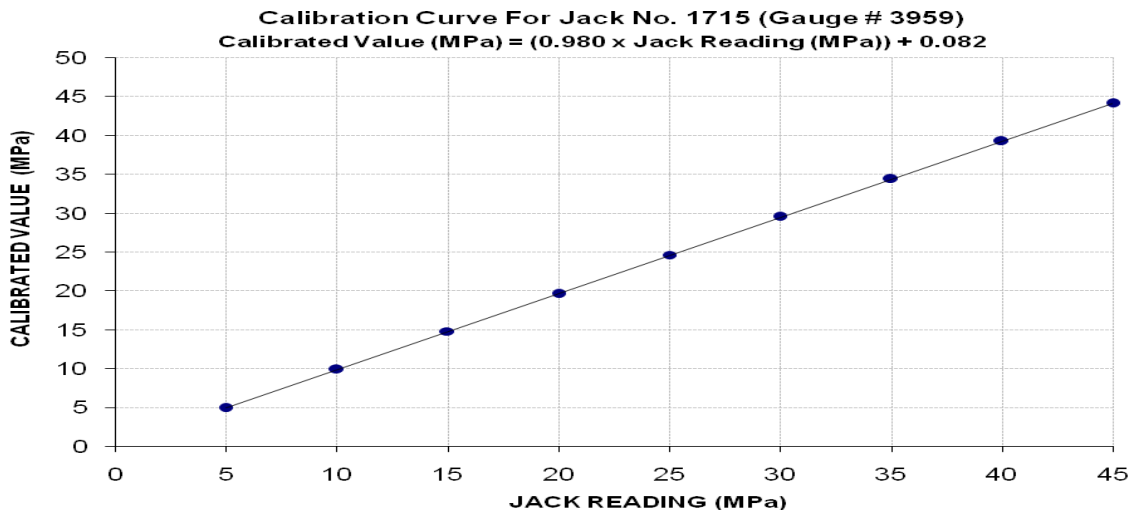
**Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/2417) (Page -2/2)**

Reference to your Letter No. MDSYS-203, dated: 06/12/2022 on the subject cited above. One Hydraulic Jack (Jack No. 1715, Gauge No. 3959, Pump No. 2284) as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 60 (MPa)**  
**Calibrated Range : Zero - 45 (MPa)**

Hydraulic Jack Reading (MPa)	5	10	15	20	25	30	35	40	45
Calibrated Load (kg)	9600	19300	28800	38200	47900	57500	67000	76400	85900
Calibrated Pressure (Mpa)	4.93	9.92	14.80	19.63	24.62	29.55	34.44	39.27	44.15

The Ram Area of Jack = 190.8 cm<sup>2</sup>



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

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