



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/11/2332

Dated: 22-11-2022

Dated of Test: 05-12-2022

To

M/s IIL Construction Solution Pvt. Ltd

Subject: - **LOAD TEST OF ADJUSTABLE TELESCOPIC STEEL PROPS** (Page # 1/2)

Reference to your Letter No. Nil, dated: 22/11/2022, on the subject cited above. One Adjustable Telescopic Steel Props as received by us has been tested. The results are shown below:

- Diameter of the lower pipe = 60.00 mm
- Diameter of the upper adjustable pipe = 48.00 mm
- Length of the lower pipe= 2.09 m
- Length of the upper adjustable pipe = 2.18 m

Sr. No.	Thickness (mm)	Unsupported Length (m)	Buckling Load		Failure Load *		Lateral Deformation at Failure Load		Remarks
			kg	kN	kg	kN	Lateral direction-1	Lateral direction-2	
							mm	mm	
1	3.15	4.02	1610.3	15.79	2930.30	28.47	31.00	23.00	Buckling Failure

* Maximum load taken by the Prop

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Dated: 22-11-2022

Dated of Test: 05-12-2022

To

M/s IIL Construction Solution Pvt. Ltd

Subject: - LOAD TEST OF ADJUSTABLE TELESCOPIC STEEL PROPS (Page # 2/2)

Reference to your Letter No. Nil, dated: 22/11/2022, on the subject cited above. One Adjustable Telescopic Steel Props as received by us has been tested. The results are shown below:

- Diameter of the lower pipe = 60.00 mm
- Diameter of the upper adjustable pipe = 48.10 mm
- Length of the lower pipe = 2.09 m
- Length of the upper adjustable pipe = 2.20 m

Sr. No.	Thickness (mm)	Unsupported Length (m)	Failure Load *		Lateral Deformation at Failure Load		Remarks
					Lateral direction-1	Lateral direction-2	
			kg	kN	mm	mm	
1	3.10	3.05	3062.30	30.04	10.00	1.00	Thread Failure and Connected hook was distorted.

* Maximum load taken by the Prop

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/12/2358

Dated: 28-11-2022

Dated of Test: 06-12-2022

To

M/S Al-Madina Traders

Rajan Pur

Row Construction Work on 18" Dia, MFM Line from km 234+000 to km 240+210 (6.21 km) in Section - VI, Tehsil Gojra, District Toba Tek Singh

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]**

Reference to your letter No. R.C.C Pipe/02, dated 25.11.2022 on the subject cited above. One R.C.C. Pipe as received by us have been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	18	7.75	7.12	19.37	14.67	2.35	6500	9000	1646	2279

Witness by Muhammad Fahad Sheikh (Assistent Tech. III (P. No. 6246)

Ref: CED/TFL/11/2375

Dated: 29-11-2022

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Date of Calibration: 05-12-2022

To

Resident Engineer
Zeeruk International (Pvt) Ltd
Construction of 10th Avenue I/C Interchange & Press at 10 th Avenue from I.J.P
Road to Srinagar Highway, Islamabad

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/2375)** (Page – 1/2)

Reference to your Letter No. RE/Zeeruk/10th Avenue/2022/221, dated: 24/11/2022 on the subject cited above. One Hydraulic Jack (Jack No. G-420, 038, Pump No. B, 195) as received by us has been calibrated. The results are tabulated as under:

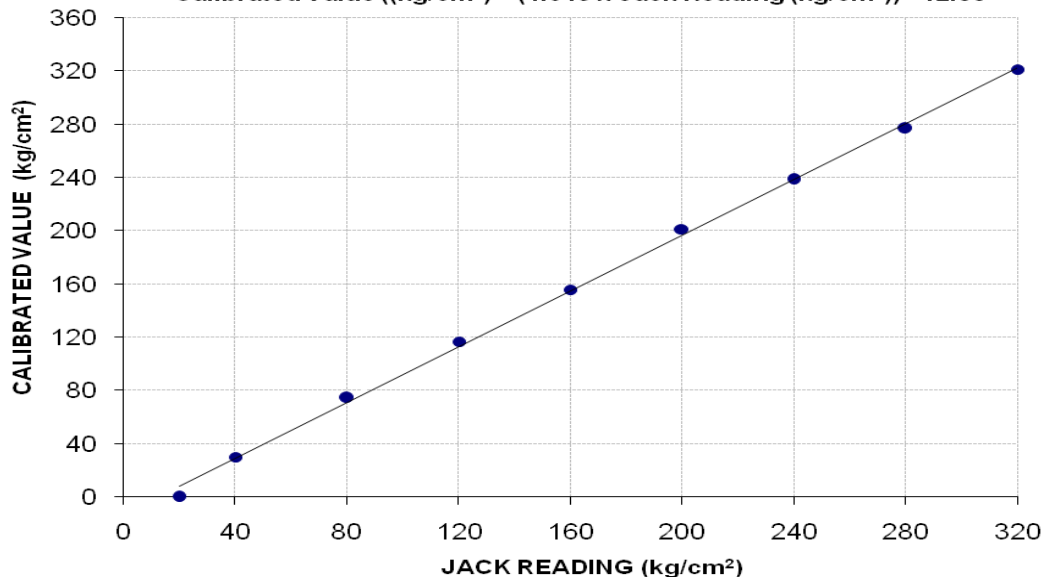
Total Range : Zero - 1000 (kg/cm²)
Calibrated Range : Zero - 320 (kg/cm²)

Hydraulic Jack Reading (kg/cm ²)	20	40	80	120	160	200	240	280	320
Calibrated Load (kg)	0	18200	45000	70400	93800	121200	143800	166800	193600
Calibrated Pressure (kg/cm ²)	0	30.21	74.70	116.87	155.71	201.20	238.71	276.89	321.38

The Ram Area of Jack = 602.40 cm²

Calibration Curve For Jack No. 038

Calibrated Value ((kg/cm²) = (1.049 × Jack Reading (kg/cm²)) - 12.88



I/C Testing Laboratories
UET Lahore, Pakistan.

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Ref: CED/TFL/11/2375

Dated: 29-11-2022

Date of Calibration: 05-12-2022

To

Resident Engineer
Zeeruk International (Pvt) Ltd
Construction of 10th Avenue I/C Interchange & Press at 10 th Avenue from I.J.P
Road to Srinagar Highway, Islamabad

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/2375)** (Page – 1/2)

Reference to your Letter No. RE/Zeeruk/10th Avenue/2022/221, dated: 24/11/2022 on the subject cited above. One Hydraulic Jack (Jack No. G-420, 030, Pump No. B1, 691) as received by us has been calibrated. The results are tabulated as under:

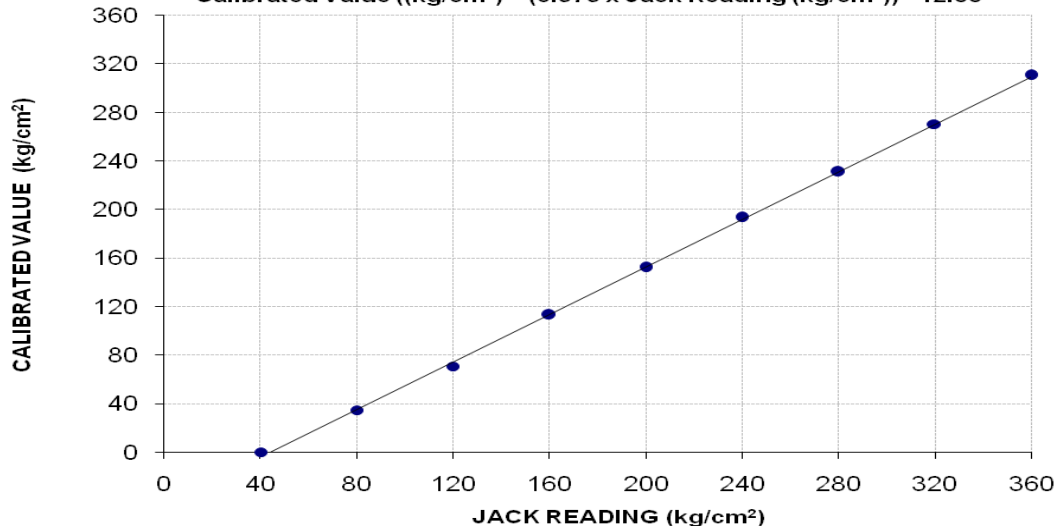
Total Range : Zero - 1000 (kg/cm²)
Calibrated Range : Zero - 360 (kg/cm²)

Hydraulic Jack Reading (kg/cm ²)	40	80	120	160	200	240	280	320	360
Calibrated Load (kg)	0	21000	42600	68200	91600	116600	139200	163000	187000
Calibrated Pressure (kg/cm ²)	0	34.86	70.72	113.21	152.06	193.56	231.08	270.58	310.42

The Ram Area of Jack = 602.40 cm²

Calibration Curve For Jack No. 030

Calibrated Value ((kg/cm²) = (0.979 x Jack Reading (kg/cm²)) - 42.88



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UET Lahore, Pakistan.

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To,

Sub Divisional Officer
 Public Health Engg: Sub Divin:
 Kamalia
 (Drainage, Sewerage, Soling / Resoling, Tuff Tiles, Drains & Bridges in Tehsil Kamalia
 District T.T. Singh (Package No. 6)

Reference # CED/TFL **2405** (Dr. M Kashif)
 Reference of the request letter # 154/K

Dated: 05-12-2022
 Dated: 15-11-2022

Tension Test Report (Page -1/1)

Date of Test 06-12-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test

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	0.093	3/16	0.187	-----	0.027	680	920	-----	54570	-----	73900	1.40	17.5	
2	0.093	3/16	0.187	-----	0.027	1040	1400	-----	83750	-----	112800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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