



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/11/2319
2022

Dated: 21-11-

Date of Calibration: 24-11-2022

To

Engineer Planning
Stronghold Pakistan (Private) Ltd.
Bridge at Smart City Islamabad

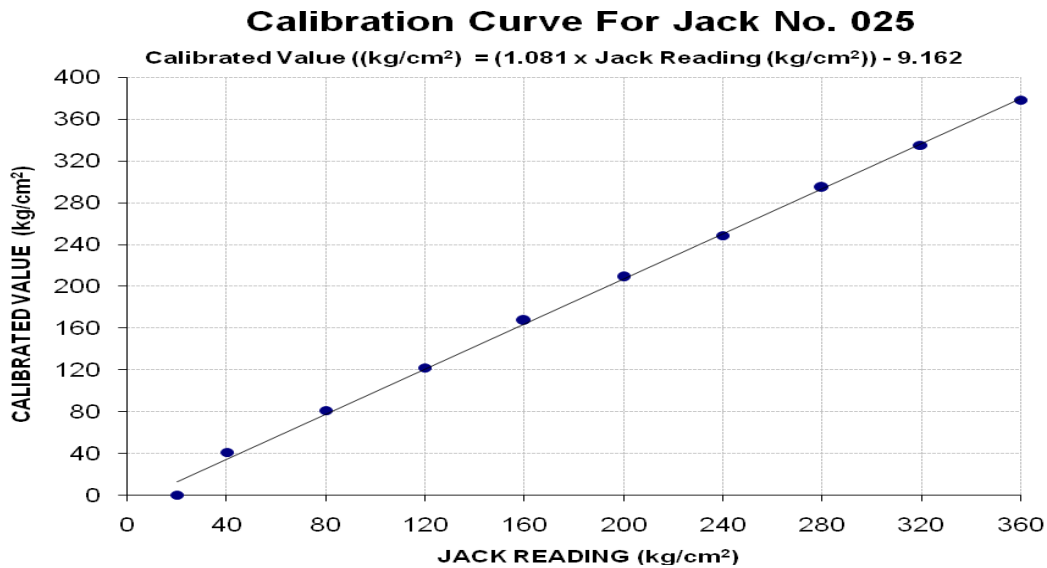
Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/11/2319)** (Page – 1/1)

Reference to your Letter No. Nil, dated: 21/11/2022 on the subject cited above. One Hydraulic Jack (Jack No. G-400, 025, Pump No. B-2, 952) 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)	20	40	80	120	160	200	240	280	320	360
Calibrated Load (kg)	0	20200	39800	59800	82200	102600	122200	144800	164800	186000
Calibrated Pressure (kg/cm ²)	0	41.08	80.94	121.61	167.17	208.66	248.52	294.48	335.15	378.26

The Ram Area of Jack = 491.72 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Ref: CED/TFL/22/2333

Dated: 23-11-2022

Dated of Test: 24-11-2022

To

Head QA/QC
Vision Developers Pvt. Ltd.
Park View City Lahore

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

Reference to your letter No. Nil, dated 16.11.2022 on the subject cited above. Two R.C.C. Pipes 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	9	7.79	7.30	12.60	9.36	1.62	7000	8900	2711	3447
2	9	7.77	7.28	12.60	8.94	1.83	7800	9600	3167	3898

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/22/2337

Dated: 23-11-2022

Dated of Test: 24-11-2022

To

Project Manager
Defence Housing Authority
Gujranwala
(Sector C)

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

Reference to your letter No. 111/15/PE/RS/Pkg-2A/831, dated 15.11.2022 on the subject cited above. Two R.C.C. Pipes 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	15	7.75	7.31	19.65	14.92	2.36	8000	13000	1941	3155
2	18	7.76	7.36	23.15	18.21	2.47	8500	16500	1679	3258

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/22/2340

Dated: 23-11-2022

Dated of Test: 24-11-2022

To

Resident Engineer
Engineering Consultancy Services Punjab (Pvt) Ltd
Infrastructure Development and Construction of Affordable Housing Units at
Chak 48 NB. Tehsil & District Sargodha

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

Reference to your letter No. ECSP/RE/SG/65, dated 12.10.2022 on the subject cited above. Three R.C.C. Pipes 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	9	7.80	7.33	11.06	8.65	1.21	2700	3900	1126	1626
2	12	7.76	7.33	16.26	12.74	1.76	3800	5400	1076	1529
3	15	7.77	7.32	19.25	15.11	2.07	4500	6800	1076	1626

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Chief Technical Officer
 Sheekhoo Sugar Mills (Steel Division)
 Anwar Abad Kot Addu, Muzaffargarh

Reference # CED/TFL **2343** (Dr. Usman Akmal)
 Reference of the request letter #Nil

Dated: 24-11-2022
 Dated: 24-11-2022

Tension Test Report (Page -1/1)

Date of Test 24-11-2022
 Gauge length 8 inches
 Description Deformed Steel ;Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in 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	0.417	10	10.03	0.12	0.122	4130	5250	75875	74320	96451	94500	1.20	15.0	
2	0.418	10	10.05	0.12	0.123	4200	5250	77161	75360	96451	94200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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UET Lahore, Pakistan.

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