



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/09/1879

Dated: 01-09-2022

Dated of Test: 07-09-2022

To

**M/S Construction & Project Management Services
Lahore**

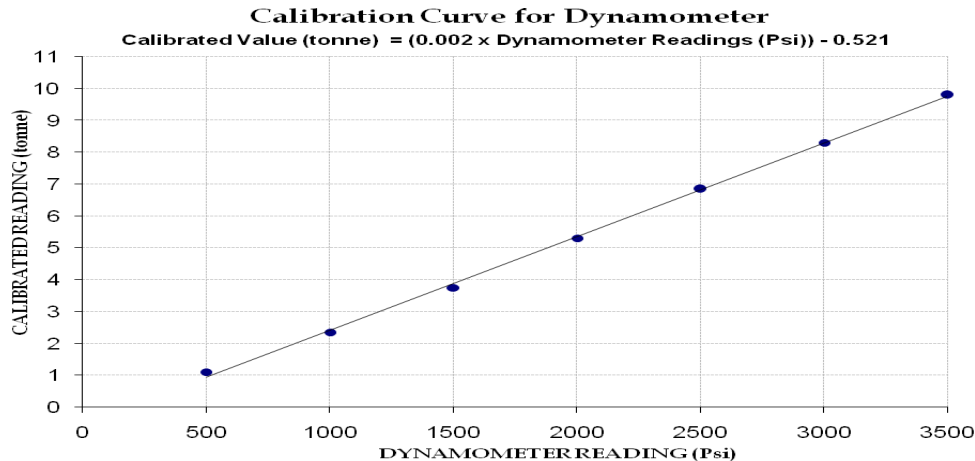
Subject: - **CALIBRATION OF DYNAMOMETER (MARK: TFL/09/1879)** (Page -1/1)

Ref: Your letter No. CPM/UET/CC/001, dated: 24/08/2022 on the subject cited above. One Dynamometer (Model No. ZLJ - 100) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 5000 (Psi)
Calibrated Range : Zero - 3500 (Psi)

Dynamometer Readings (Psi)	500	1000	1500	2000	2500	3000	3500	
Calibrated Readings	(kg)	1100	2350	3750	5300	6850	8300	9800
	(tonne)	1.10	2.35	3.75	5.30	6.85	8.30	9.80

1000 kg = 1 Tonne



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

Note:

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Ref: CED/TFL/09/1880

Dated: 02-09-2022

Dated of Test: 07-09-2022

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 01.09.2022 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	7.76	7.29	12.52	9.34	1.59	8000	11000	3110	4276
2	9	7.77	7.30	12.44	9.41	1.51	8000	10500	3082	4045

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To,
 Project Manager
 State Grid
 Design, Supply, Installation, Testing & Commissioning of 500kV D/C Transmission Line Nokhar
 S/S – Lahore North S/S- Lahore HVDC Switching / Converter Station
 Reference # CED/TFL **1904** (Dr. Usman Akmal) Dated: 06-09-2022
 Reference of the request letter # CET/ADB-301A/SEC-II/UET-22-684 Dated: 06-09-2022

Tension Test Report (Page -1/1)

Date of Test 07-09-2022
 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	4.265	10	1.263	1.27	1.254	38200	54000	66300	67170	93800	95000	1.50	18.8	
2	4.360	10	1.277	1.27	1.282	39600	56800	68800	68110	98600	97700	1.40	17.5	
3	4.267	10	1.264	1.27	1.254	37600	53600	65300	66080	93100	94200	1.30	16.3	
4	4.280	10	1.266	1.27	1.258	38400	53800	66700	67280	93400	94300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and four samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
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Witness by Sohaib Ali (Sub Engr. NESPAK) & Engr. Usman Ghafoor (P.E, CET)

I/C Testing Laboratories
UET Lahore, Pakistan.

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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 1905 (Dr. Qasim Khan)
 Reference of the request letter # G3/DHA-NLD/RE/093

Dated: 07-09-2022
 Dated: 06-09-2022

Tension Test Report (Page -1/1)

Date of Test 07-09-2022
 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	0.370	3	0.372	0.11	0.109	3300	4900	66200	66890	98200	99400	1.40	17.5	
2	0.368	3	0.371	0.11	0.108	3300	4900	66200	67260	98200	99900	1.50	18.8	
3	0.386	3	0.380	0.11	0.114	3500	5100	70200	67920	102200	99000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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,
 Muddasir Ali
 Lahore

Reference # CED/TFL **1906** (Engr. Ubaid Ahmed)
 Reference of the request letter # Nil

Dated: 07-09-2022
 Dated: 07-09-2022

Tension Test Report (Page -1/1)

Date of Test 07-09-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.370	3	0.372	0.11	0.109	3380	5010	67800	68480	100400	101600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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