



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S Linker Developers (Pvt) Ltd.
Lahore
(Construction of DPS Wazirabad)

Reference # CED/TFL **4104** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 25-10-2023
Dated: 25-10-2023

Tension Test Report (Page -1/1)

Date of Test 26-10-2023
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	0.386	3	0.380	0.11	0.114	3500	4800	70200	67960	96200	93200	1.20	15.0	
2	0.390	3	0.382	0.11	0.115	3500	4900	70200	67310	98200	94300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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To,
M/S Premium Engineering
Lahore

Reference # CED/TFL **4084** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 25-10-2023
Dated: 25-10-2023

Tension Test Report (Page – 1/1)

Date of Test 26-10-2023
Gauge length 2 inches
Description Hot Rolled Steel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	4	25.30x3.95	99.94	3800	4900	373	481	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/10/4106

Dated: 25-10-2023

Dated of Test: 26-10-2023

To,

Chairman
Department of Civil Engineering
University of Engineering & Technology, Taxila

Subject: - CALIBRATION OF LOAD CELL (MARK: TFL/10/4106) (Page – 1/2)

Reference to your Letter No. UET/CED/T-6, Dated: 17/10/2023 on the subject cited above. One Load Cell Make: ELE International Ltd., Serial No. 1052-9-6080, Capacity: 3000 kN as received by us has been calibrated. The results are tabulated as under:

Load Cell Reading	Calibrated Laod (kg)
50	11200
100	23400
150	35200
200	46800
250	58000
300	70000
350	81200
400	92800
450	104000
500	116000
550	127200
600	141000
650	153200
700	164400
750	175200

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/10/4106
Dated of Test: 26-10-2023

Dated: 25-10-2023

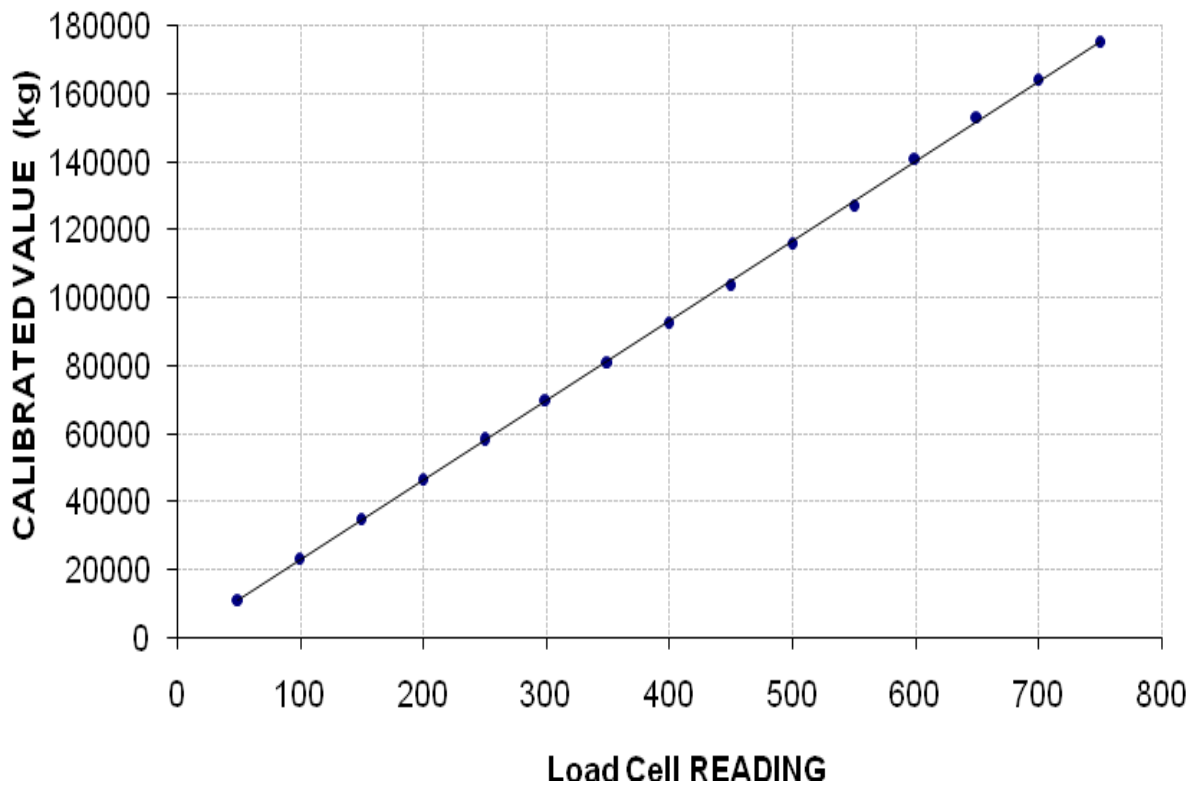
To,

Chairman
Department of Civil Engineering
University of Engineering & Technology, Taxila

Subject: - CALIBRATION OF LOAD CELL (MARK: TFL/10/4106) (Page – 2/2)

Calibration Curve For Load Cell

$$\text{Calibrated Value (kg)} = (234.5 \times \text{Load Cell Readings}) - 499.0$$



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UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
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To,

Principal Architect
Z.H. Kazmi & Associates
Construction of MC Bank Ltd. Gohadpur Branch Gujranwala Region (0222)

Reference # CED/TFL **4110** (Dr. Safer Abbass)
Reference of the request letter # Nil

Dated: 26-10-2023
Dated: 26-10-2023

Tension Test Report (Page -1/1)

Date of Test 26-10-2023
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	0.354	3	0.364	0.11	0.104	3900	5700	78200	82560	114300	120700	0.50	6.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
 M/S K.H. Flour & Gmneral Mills (Pvt) Ltd.
 Lahore

Reference # CED/TFL 4142 (Dr. Asad Ali)
 Reference of the request letter # Nil

Dated: 31-10-2023
 Dated: 31-10-2023

Tension Test Report (Page -1/1)

Date of Test 31-10-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.366	3	0.370	0.11	0.107	2980	4330	59800	61130	86800	88900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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To,

Principal Architect
Z.H. Kazmi & Associates
Construction of MC Bank Ltd. Gohadpur Branch Gujranwala Region (0222)

Reference # CED/TFL 4143 (Dr. Asad Ali)
Reference of the request letter # Nil

Dated: 31-10-2023
Dated: 31-10-2023

Tension Test Report (Page -1/1)

Date of Test 31-10-2023
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	0.354	3	0.364	0.11	0.104	5760	6160	115500	122000	123500	130500	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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