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/04/3133 Dated: 27-04-2023

Dated of Test: 02-05-2023

To

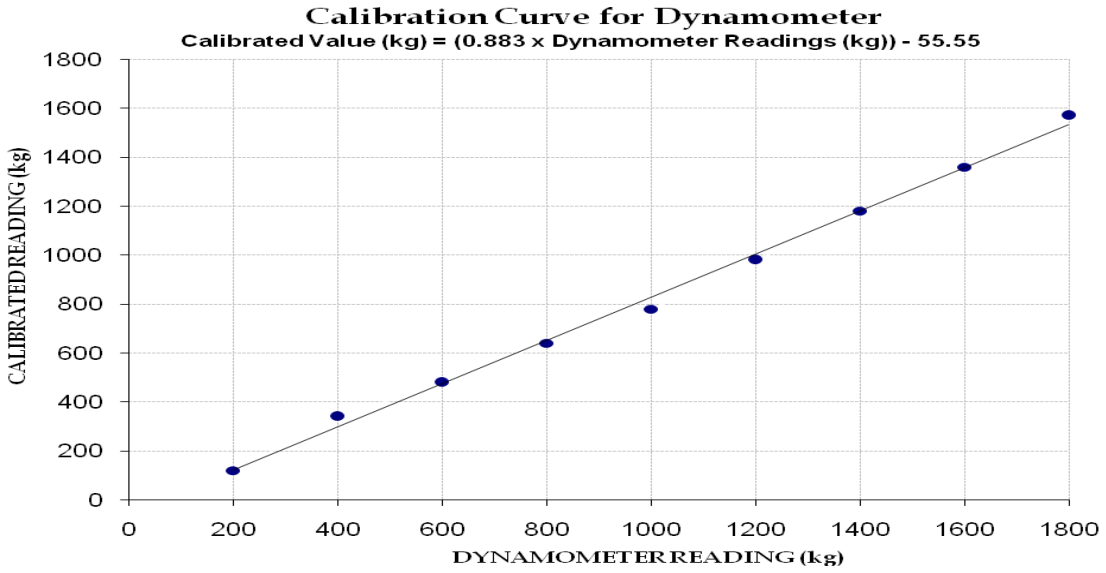
Manager - I (MI) PPMC
Power Planning and Monitoring Company (Pvt.) Ltd.
Lahore
(PCC Pole Plant)

Subject: **- CALIBRATION OF DYNAMOMETER (MARK: TFL/04/3133)** (Page -1/1)

Ref: Your letter No. CE(MI)/PPMC/9384, dated: 26/04/2023 on the subject cited above. One Dynamometer as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 2000 (kg)
Calibrated Range : Zero - 1800 (kg)

Dynamometer Readings (kg)	200	400	600	800	1000	1200	1400	1600	1800
Calibrated Readings (kg)	120	340	480	640	780	980	1180	1360	1570



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To,

Asst Dir Lab
Defence Housing Authority, Bahawalpur
Pelican Mall DHAB (Pelican Builders & Property Consultant (Pvt) Ltd.)

Reference # CED/TFL **3135** (Dr. M Kashif) Dated: 28-04-2023
Reference of the request letter # 535/QC/MTL Dated: 28-04-2023

Tension Test Report (Page -1/1)

Date of Test 02-05-2023
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	0.362	3	0.368	0.11	0.106	3300	4600	66200	68320	92200	95300	1.40	17.5	Kamran Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,

M/S Ibrahim Nizami Steel Wire Ind. (Pvt) Ltd
Lahore

Reference # CED/TFL **3136** (Dr. M Kashif) Dated: 28-04-2023
Reference of the request letter # Nil Dated: 27-04-2023

Tension Test Report (Page – 1/1)

Date of Test 02-05-2023
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	**9.53 (3/8")**	**432.0**	**437.0**	**10000**	**98.10**	**11200**	**109.87**	**>3.50**	**xx**
2	**9.53 (3/8")**	**432.0**	**437.0**	**10100**	**99.08**	**11200**	**109.87**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only two samples for Test									

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STRUCTURAL ENGINEERING DIVISION

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

To,

GE Construction Manager
Guarantee Engineers (Pvt) Ltd
Kasim Kasuri Residence 49 Tufail Road Cantt Lahore.

Reference # CED/TFL **3138** (Dr. M Kashif) Dated: 28-04-2023
Reference of the request letter # KKH/GE/ST/001 Dated: 27-03-2023

Tension Test Report (Page -1/1)

Date of Test 02-05-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.424	10	10.12	0.12	0.125	3900	5600	71650	68890	102881	99000	1.20	15.0	
2	0.396	10	9.78	0.12	0.116	3700	5200	67975	70030	95533	98500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180º is Satisfactory														

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To,

Sub Divisional Officer
Buildings Sub Division No. 02
Multan
(Construction of New Adminstration Block at Lahore High Court, Multan Bench, Multan)

Reference # CED/TFL **3139** (Dr. M Kashif) Dated: 28-04-2023
Reference of the request letter # 2029/SDO 2nd Dated: 28-03-2023

Tension Test Report (Page -1/1)

Date of Test 02-05-2023
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	0.373	3	0.374	0.11	0.110	3000	4500	60200	60280	90200	90500	1.30	16.3	
2	0.375	3	0.375	0.11	0.110	3300	4900	66200	66010	98200	98100	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

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To,

Resident Engineer
Acrow Consultant Pvt. Ltd
Construction of Apartment Building at B-45 Gulberg III, Lahore

Reference # CED/TFL **3141** (Dr. Asad Ali) Dated: 02-05-2023
Reference of the request letter# Arcow/45-B/ Dated: 02-05-2023

Tension Test Report (Page -1/1)

Date of Test 02-05-2023
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	0.380	3	0.377	0.11	0.112	3300	5100	66200	65110	102200	100700	1.00	12.5	
2	0.383	3	0.379	0.11	0.113	3400	5200	68200	66560	104200	101800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

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To,

Asst Dir Infra
Defence Housing Authority
Gujranwala
(Sec C)

Reference # CED/TFL **3142** (Dr. M Rizwan Riaz) Dated: 02-05-2023
Reference of the request letter # 111/15/AD/RS/Lab/Pkg-2A/1271 Dated: 02-05-2023

Tension Test Report (Page -1/1)

Date of Test 02-05-2023
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	0.379	3	0.376	0.11	0.111	3400	5100	68200	67320	102200	101000	1.40	17.5	Siraj Steel
2	0.383	3	0.379	0.11	0.113	3300	5100	66200	64570	102200	99800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º is Satisfactory

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