



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

To,

Project Incharge
Tayba Developers
Construction of Tayba Developers Plaza No. 15-A3 Kasoori Road, Gulberg Lahore.

Reference # CED/TFL **4378** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 19-12-2023
Dated: 18-12-2023

Tension Test Report (Page -1/1)

Date of Test 22-12-2023
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	0.377	3	0.375	0.11	0.111	4000	5220	80200	79650	104600	104000	1.40	17.5	
2	0.377	3	0.376	0.11	0.111	4000	5220	80200	79520	104600	103800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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/12/4381

Dated: 19-12-2023

Date of Calibration: 22-12-2023

To

Resident Engineer
CAMEOS Consultants.
Construction of New Pinjra Bridge over Bolan River (N-65)

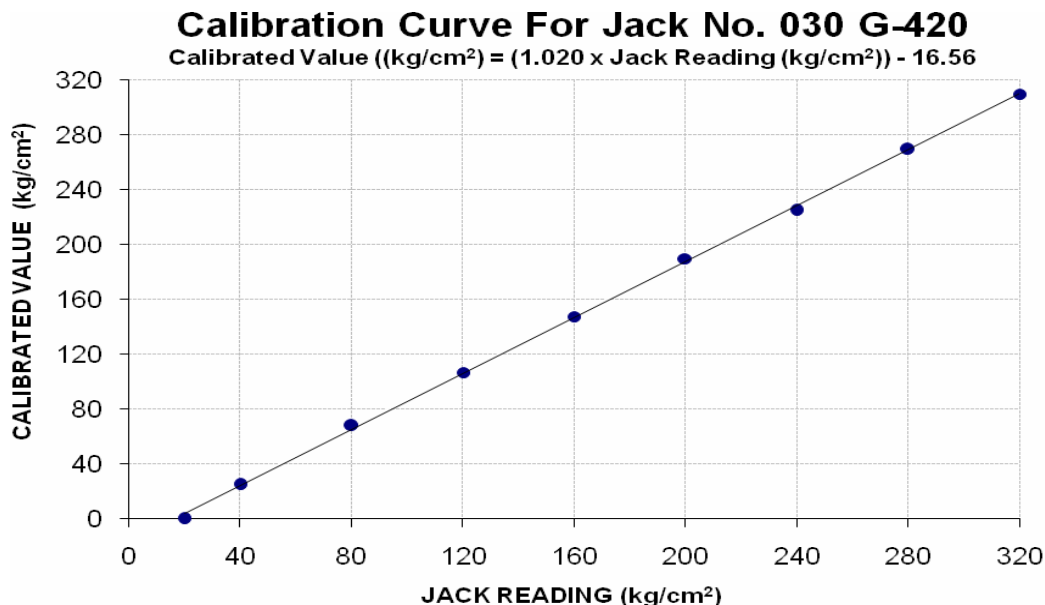
Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/4381)** (Page – 1/2)

Reference to your Letter No. RE/Pinjra Bridge/2023/22, dated: 18/12/2023 on the subject cited above. One Hydraulic Jack (Jack No. 030 G420, Pump No. 226 B-1) 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	15000	40800	64400	88800	114400	135400	162200	186600
Calibrated Pressure (kg/cm ²)	0	25	68	107	147	190	225	269	310

The Ram Area of Jack = 602.4 cm²



I/C Testing Laboratories
UET Lahore, Pakistan.

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Ref: CED/TFL/12/4381

Dated: 19-12-2023

Date of Calibration: 22-12-2023

To

Resident Engineer
CAMEOS Consultants.
Construction of New Pinjra Bridge over Bolan River (N-65)

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/4381)** (Page – 2/2)

Reference to your Letter No. RE/Pinjra Bridge/2023/22, dated: 18/12/2023 on the subject cited above. One Hydraulic Jack (Jack No. 038 G420, Pump No. 229 B-1) as received by us has been calibrated. The results are tabulated as under:

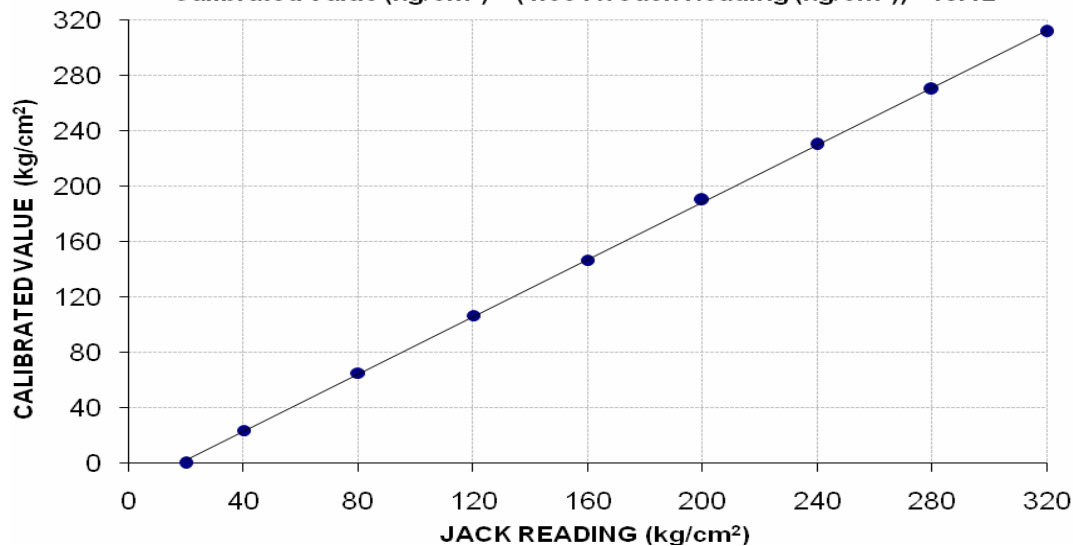
Total Range : Zero - 1000 (kg/cm²)
Calibrated Range : Zero - 320 (kg/cm²)

Hydraulic Jack Reading (kg/cm ²)	20	40	80	120	160	200	240	280	320
Calibrated Load (kg)	0	14200	39200	64200	88400	114600	138600	162800	187800
Calibrated Pressure (kg/cm ²)	0	24	65	107	147	190	230	270	312

The Ram Area of Jack = 602.4 cm²

Calibration Curve For Jack No. 038 G-420

Calibrated Value (kg/cm²) = (1.034 x Jack Reading (kg/cm²)) - 18.42



I/C Testing Laboratoires
UET Lahore, Pakistan.

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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,

Project Manager
M/S High-Q Constructions
Construction of High-Q Mall at 3-A, Gulberg II, Lahore.

Reference # CED/TFL **4387** (Dr. M Rizwan Riaz)
Reference of the request letter # QC/HQ/CIVIL/167

Dated: 20-12-2023
Dated: 20-12-2023

Tension Test Report (Page -1/1)

Date of Test 22-12-2023
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend 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	0.407	10	9.91	0.12	0.120	3890	5270	71466	71710	96819	97200	1.20	15.0	
2	0.411	10	9.96	0.12	0.121	4000	5320	73487	72980	97737	97100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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,

M/S Beacon Impex
 Construction of Dye House Extension & Wwre House at Beacon Impex.
 Beacon Impex, 35 – km Sheikhpura Road, Faisalabad
 (M/s M. Saleem Construction Company.)

Reference # CED/TFL **4388** (Dr. M Rizwan Riaz)
 Reference of the request letter # B.I/I/CIVIL/23-64

Dated: 20-12-2023
 Dated: 20-12-2023

Tension Test Report (Page -1/1)

Date of Test 22-12-2023
 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	0.373	3	0.374	0.11	0.110	3840	5050	77000	77230	101200	101600	1.00	12.5	Kisan Steel
2	0.365	3	0.370	0.11	0.107	3980	4590	79800	81760	92000	94300	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratoires
UET Lahore, Pakistan.

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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,

Executive Engineer
Project Civil Division
Pak PWD Sahiwal
(Construction of Capacity Building of Field Offices of Election Commission of Pakistan at Sahiwal)

Reference # CED/TFL **4392** (Dr. M Rizwan Riaz)
Reference of the request letter # EE/PCD/SWI/2013

Dated: 20-12-2023

Dated: 18-12-2023

Tension Test Report (Page -1/1)

Date of Test 22-12-2023

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	0.389	3	0.381	0.11	0.114	3360	4890	67400	64830	98000	94400	1.40	17.5	
2	0.393	3	0.383	0.11	0.116	3410	4980	68400	65070	99800	95100	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratoires
UET Lahore, Pakistan.

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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,
 PM Construction
 Ittefaq Building Solutions Pvt. Ltd.
 “Mr. Chughtai House Lahore Cantt.”

Reference # CED/TFL **4394** (Dr. M Rizwan Riaz)
 Reference of the request letter # IBS

Dated: 20-12-2023
 Dated: 20-12-2023

Tension Test Report (Page -1/1)

Date of Test 22-12-2023
 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	0.363	3	0.369	0.11	0.107	3520	4740	70600	72630	95000	97900	1.60	20.0	
2	0.363	3	0.369	0.11	0.107	3540	4740	71000	73050	95000	97900	1.20	15.0	
-	0.364	3	0.369	0.11	0.107	3490	4740	70000	71910	95000	97700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Test Floor Laboratory
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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 DGM Civil (Line-IV)
 Maple Leaf Cement Factory Limited.
 Civil Works of Line-IV, Maple Leaf Cement

Reference # CED/TFL **4395** (Dr. M Rizwan Riaz)
 Reference of the request letter # MLCFL/LINE-IV/2023-01

Dated: 21-12-2023
 Dated: 21-12-2023

Tension Test Report (Page -1/1)

Date of Test 22-12-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend 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	3890	5470	71466	70010	100493	98500	1.40	17.5	Almoiz Steel
2	0.407	10	9.92	0.12	0.120	3790	5370	69629	69750	98656	98900	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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,

Admin
Lnker Developers (Pvt) Ltd.
Construction of Quaid-e-Azam Public School Dream Garden Wazirabad.

Reference # CED/TFL **4397** (Dr. M Rizwan Riaz)
Reference of the request letter # LINKER/12/23/044

Dated: 22-12-2023
Dated: 22-12-2023

Tension Test Report (Page -1/1)

Date of Test 22-12-2023
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	0.378	3	0.376	0.11	0.111	4100	4840	82200	81390	97000	96100	0.90	11.3	Afco Steel
2	0.379	3	0.376	0.11	0.111	3940	4660	79000	78020	93400	92300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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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,

Manager
ABL - UML P-199 & 200
Allied Bank
Construction of ABL Upper Mall Lahore Plot No. 199, 200.

Reference # CED/TFL **4399** (Dr. M Rizwan Riaz)
Reference of the request letter # ABL-UML-AMC-QAQC-58

Dated: 22-12-2023
Dated: 22-12-2023

Tension Test Report (Page -1/1)

Date of Test 22-12-2023
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	4.252	10	1.261	1.27	1.250	34600	54600	60100	61020	94800	96300	1.70	21.3	Batala Steel
2	4.256	10	1.262	1.27	1.251	34600	54800	60100	60960	95200	96600	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Hafiz Uzair Abdul Ghani (Manager MEP)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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