



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

To,

Mirza Shahbaz
Civil Department
Sapphire Fibers Lrd.
No. 1 Kharianwala

Reference # CED/TFL **3878** (Dr. M Kashif)
Reference of the request letter # SFL/Civil/5891

Dated: 06-09-2023

Dated: 05-09-2023

Tension Test Report (Page – 1/7)

Date of Test 22-09-2023
Gauge length 2 inches
Description SS Plate 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	SS Plate	27.75x1.90	52.73	2640	3520	491	655	0.70	35.00	
2	SS Plate	27.70x1.90	52.63	2640	3560	492	664	0.75	37.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,

ARE MMP/PCP
Sub-Office, Okara
Improvement of Road from Tank to Harina wala Chowk Okara M.A. Jinnah Road.
Length = 1.02 km.

Reference # CED/TFL **3946** (Dr. M Kashif)
Reference of the request letter # MMP/PCP/MCO/72/2023

Dated: 21-09-2023
Dated: 07-09-2023

Tension Test Report (Page -1/1)

Date of Test 22-09-2023
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	0.113	3600	5200	72200	69990	104200	101100	1.20	15.0	
2	0.386	3	0.380	0.11	0.113	3600	5200	72200	70020	104200	101200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
Site Engineer
Expo Gold
Lahore

Reference # CED/TFL **3948** (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 21-09-2023
Dated: 21-09-2023

Tension Test Report (Page -1/1)

Date of Test 22-09-2023
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	0.404	3	0.389	0.11	0.119	3700	5500	74200	68650	110200	102100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

Hasnain Sheikh
 ES Consulting (Pvt) Ltd.
 Construction/ Renovation of Toilet Blocks at Diffrent Heritage & Tourist Sites in Central
 Zone (Lot-3) Sheikhpura Sites.

Reference # CED/TFL **3949** (Dr. M Kashif)

Dated: 21-09-2023

Reference of the request letter # RE/TOL/PTEGP/ESC 12

Dated: 20-09-2023

Tension Test Report (Page -1/1)

Date of Test

22-09-2023

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	0.369	3	0.372	0.11	0.108	3100	4800	62200	63030	96200	97600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,

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

Reference # CED/TFL **3951** (Dr. M Kashif)

Dated: 21-09-2023

Reference of the request letter # ABL-UML-AMC-QAQC-29

Dated: 20-09-2023

Tension Test Report (Page -1/1)

Date of Test 22-09-2023

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	0.416	9.5	10.02	0.110	0.122	4600	5500	92200	82970	110200	99200	1.00	12.5	Naveena Steel
2	0.417	9.5	10.03	0.110	0.123	4400	5400	88200	79150	108200	97200	0.90	11.3	
3	0.408	9.5	9.93	0.110	0.120	4100	5100	82200	75340	102200	93800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
9.5mm Dia Bar Bend Test Through 180° is Satisfactory														

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Ref: CED/TFL/09/3953

Dated: 21-09-2023

Dated of Test: 22-09-2023

To

Assistant Resident Engineer
MM Pakistan (Pvt) Ltd.
Package-III (PCP) Jhang
“Rehabilitation of Sewerage System in Jhang City”

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

Reference to your letter No. Jhang/PKG03/19, dated 16.09.2023 on the subject cited above. Two R.C.C. Pipes as received by us has 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	12	7.77	7.35	15.94	12.05	1.95	6000	8500	1793	2540
2	15	7.76	7.34	19.61	15.03	2.29	7000	10500	1680	2520

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Ref: CED/TFL/09/3963, 3964

Dated: 22-09-2023

Date of Calibration: 22-07-2023

To

Resident Engineer
NESPAK

Construction of Underpass along Bedian Road at Rounabout near Lahore Ring (LRR), Lahore.

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/3963)** (Page – 1/2)

Reference to your Letter No. 3772/103/BU/MHK/04/77, dated: 22/09/2023 on the subject cited above. One Hydraulic Jack (Jack No. 030, Pump No. B1, 226) as received by us has been calibrated. The results are tabulated as under:

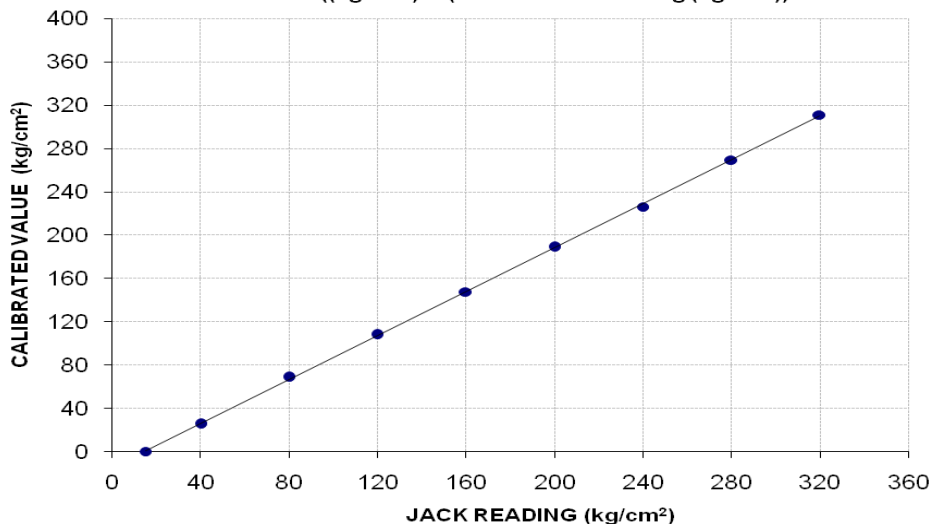
Total Range : Zero - 1000 (kg/cm²)
Calibrated Range : Zero - 320 (kg/cm²)

Hydraulic Jack Reading (kg/cm²)	15	40	80	120	160	200	240	280	320
Calibrated Load (kg)	0	15300	41400	65000	88800	113800	136200	162300	187200
Calibrated Pressure (kg/cm²)	0	25	69	108	147	189	226	269	311

The Ram Area of Jack = 602.4 cm²

Calibration Curve For Jack No. 030

Calibrated Value ((kg/cm²) = (1.013 x Jack Reading (kg/cm²)) - 14.37



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Ref: CED/TFL/09/3963, 3964

Dated: 22-09-2023

Date of Calibration: 22-07-2023

To

Resident Engineer
NESPAK

Construction of Underpass along Bedian Road at Rounabout near Lahore Ring (LRR), Lahore.

Subject: - **CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/3963)** (Page – 2/2)

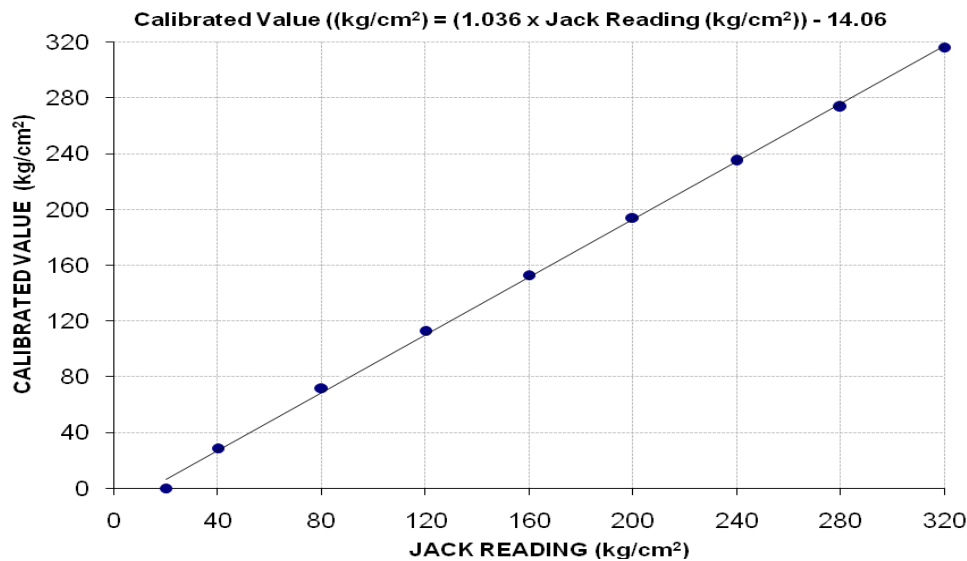
Reference to your Letter No. 3772/103/BU/MHK/04/77, dated: 22/09/2023 on the subject cited above. One Hydraulic Jack (Jack No. 038, Pump No. B1, 229) as received by us has been calibrated. The results are tabulated as under:

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

Hydraulic Jack Reading (kg/cm²)	20	40	80	120	160	200	240	280	320
Calibrated Load (kg)	0	17400	43400	68100	92300	116900	141600	164900	190700
Calibrated Pressure (kg/cm²)	0	29	72	113	153	194	235	274	317

The Ram Area of Jack = 602.4 cm²

Calibration Curve For Jack No. 038



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