



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/12/35731

Dated: 10-12-2020

Date of Calibration: 14-12-2020

To
Sub Divisional Officer
Highway Sub Division Taunsa
(Rehabilitation of Metalled Road from Zain to Barthi including Pile Foundation Bridge over Nallah Sanghar Length = 16.00 km (Group-III)(Bridge Portion)

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/35731) (Page – 1/2)

Reference to your Letter No. 214/T, dated: 08/12/2020 on the subject cited above. One Hydraulic Jack (Jack No. 074, Pump No. B1-213) as received by us has been calibrated. The results are tabulated as under:

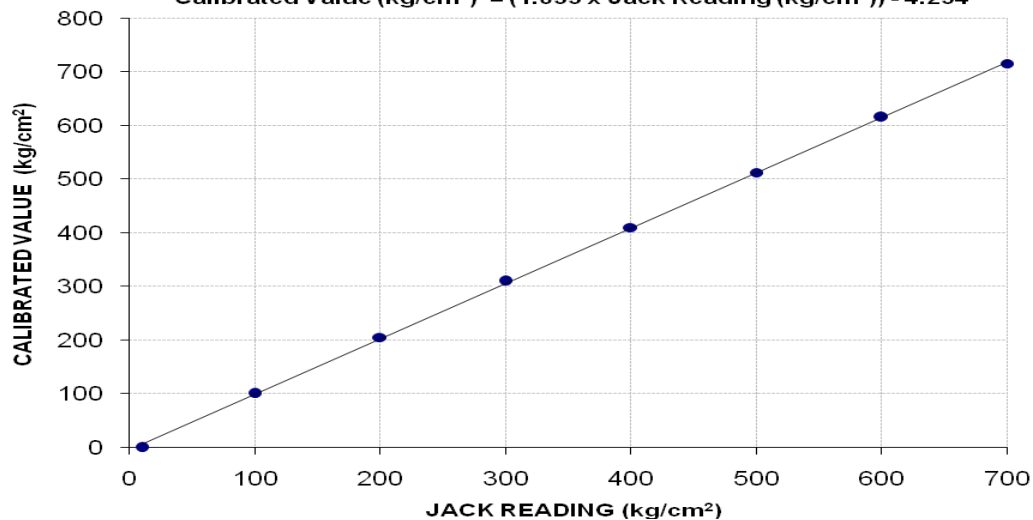
Total Range : Zero - 1000 (kg/cm²)
Calibrated Range : Zero - 700 (kg/cm²)

Hydraulic Jack Reading (kg/cm ²)	10	100	200	300	400	500	600	700
Calibrated Load (kg)	0	26800	54800	82800	109600	137000	164400	191200
Calibrated Pressure (kg/cm ²)	0	100.30	205.09	309.88	410.18	512.72	615.27	715.57

The Ram Area of Jack = 267.2 cm²

Calibration Curve For Jack No. 074

Calibrated Value (kg/cm²) = (1.033 x Jack Reading (kg/cm²)) - 4.254



I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/12/35731

Dated: 10-12-2020

Date of Calibration: 14-12-2020

To
Sub Divisional Officer
Highway Sub Division Taunsa
(Rehabilitation of Metalled Road from Zain to Barthi including Pile Foundation Bridge over Nallah Sanghar Length = 16.00 km (Group-III)(Bridge Portion)

Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/35731) (Page – 2/2)

Reference to your Letter No. 214/T, dated: 08/12/2020 on the subject cited above. One Hydraulic Jack (Jack No. 071, Pump No. B1-195) as received by us has been calibrated. The results are tabulated as under:

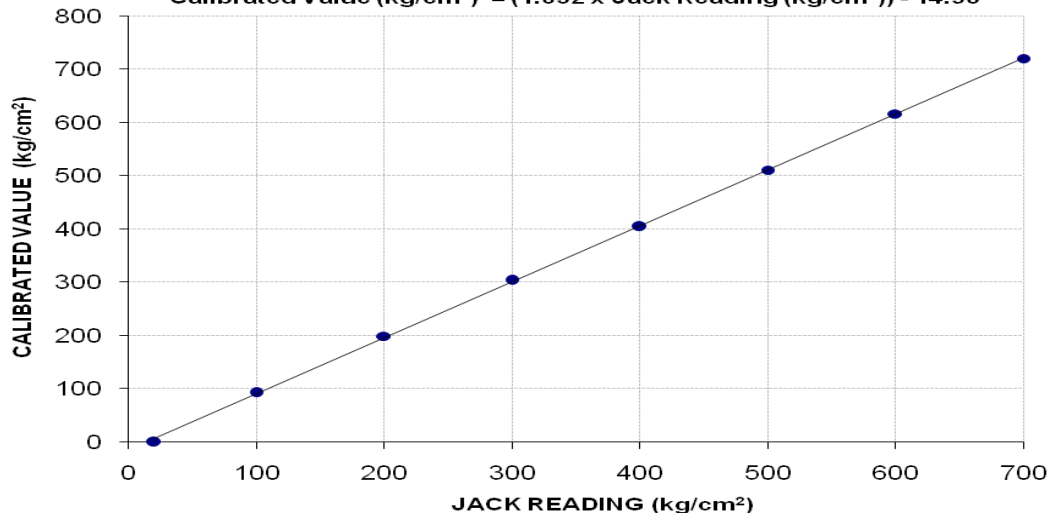
Total Range : Zero - 1000 (kg/cm²)
Calibrated Range : Zero - 700 (kg/cm²)

Hydraulic Jack Reading (kg/cm ²)	20	100	200	300	400	500	600	700
Calibrated Load (kg)	0	24800	53200	81200	108000	136600	164600	192400
Calibrated Pressure (kg/cm ²)	0	92.81	199.10	303.89	404.19	511.23	616.02	720.06

The Ram Area of Jack = 267.2 cm²

Calibration Curve For Jack No. 071

Calibrated Value (kg/cm²) = (1.052 x Jack Reading (kg/cm²)) - 14.96



I/C Testing Laboratoires
UET Lahore, Pakistan.

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

Ref: CED/TFL/12/35738

Dated: 10-12-2020

Dated of Test: 14-12-2020

To
M/S Concepts Enterprises
Lahore

Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/12/35738)** (Page # 1/1)

Reference to your Letter No. Nil, Dated: 10/12/2020 on the subject cited above. One Pressure Gauge No. EN837-1 as received by us has been calibrated. The results are tabulated as under:

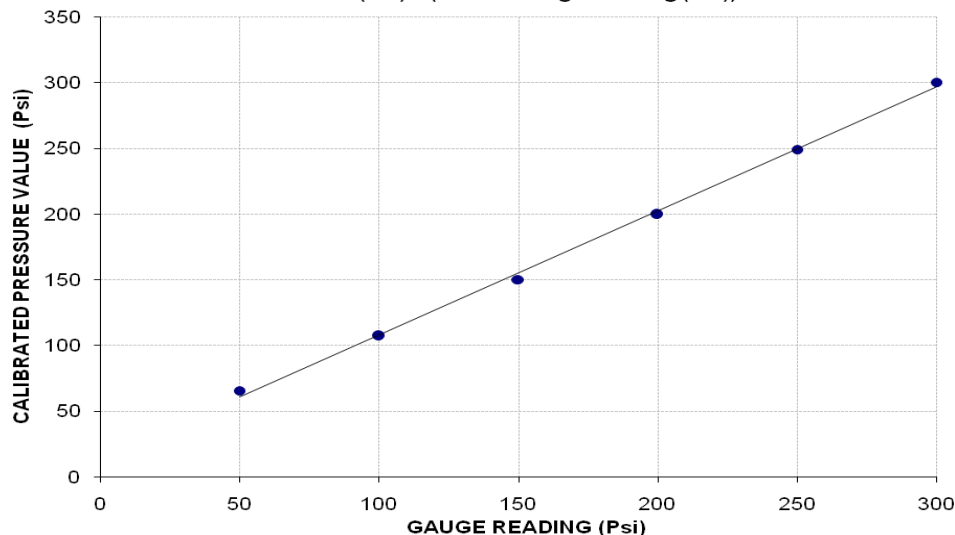
Total Range : Zero - 350 (Psi)
Calibrated Range : Zero - 300 (Psi)

Pressure Gauge Reading (Psi)	50	100	150	200	250	300
Calibrated Load (kg)	910	1490	2090	2780	3470	4180
Calibrated Pressure (Psi)	65.37	107.03	150.13	199.70	249.26	300.26

The Ram Area use for Calibration = 198 cm²

Calibration Curve for Pressure Gauge

Calibrated Value (Psi) = (0.943 × Gauge Reading (Psi)) + 13.55



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,
 Resident Engineer
 QA/QC Department
 Bahria Town Private Limited, Lahore
 Water Course at Moor Chowk, Bahria Town Multan Road Site, Lahore

Reference # CED/TFL **35748** (Dr. Qasim Khan)
 Reference of the request letter # QA/QC-Steel-2197

Dated: 11-12-2020
 Dated: 10-12-2020

Tension Test Report (Page -1/1)

Date of Test 14-12-2020
 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	0.368	3	0.371	0.11	0.108	3700	4900	74200	75350	98200	99800	1.00	12.5	FF Steel
2	0.371	3	0.372	0.11	0.109	3300	4600	66200	66770	92200	93100	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 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,
 Project Manager
 ASMI
 Construction of Residence for Mr. Asif Jamal at plot no. 1034, Sector K DHA Lahore

Reference # CED/TFL **35749** (Dr. Qasim Khan) Dated: 11-12-2020
 Reference of the request letter # Nil Dated: 13-11-2020

Tension Test Report (Page -1/1)

Date of Test 14-12-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		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	0.373	3/8	0.373	0.11	0.110	2900	4400	58200	58360	88200	88600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
 Project Manager
 A & R Construction Services
 Construction of Residence for Mr. Syed Farhan ul Hashim at plot no. 47, Sector A, Sui-Gas
 Society Lahore
 Reference # CED/TFL **35750** (Dr. Qasim Khan) Dated: 11-12-2020
 Reference of the request letter # Nil Dated: 05-10-2020

Tension Test Report (Page -1/1)

Date of Test 14-12-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		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	0.369	3/8	0.371	0.11	0.108	2900	4300	58200	59000	86200	87500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

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,
 Project Manager
 Etihad Town Pvt Ltd Raiwind Road Lahore

Reference # CED/TFL **35751** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 11-12-2020
 Dated: 10-12-2020

Tension Test Report (Page -1/1)

Date of Test 14-12-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		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	0.373	3/8	0.374	0.11	0.110	3700	4900	74200	74350	98200	98500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
 Assistant Resident Engineer
 Abdullah Khan Architects
 Civil Infrastructure Work for Sector – F, DHA Bahawalpur

Reference # CED/TFL **35752** (Dr.Qasim Khan) Dated: 11-12-2020
 Reference of the request letter # ARE/AKA/TTC-F/SITE/43 Dated: 09-12-2020

Tension Test Report (Page -1/1)

Date of Test 14-12-2020
 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	0.406	3	0.390	0.11	0.119	4200	5600	84200	77590	112300	103500	1.00	12.5	Mughal Steel
2	0.405	3	0.389	0.11	0.119	4100	5500	82200	75950	110200	101900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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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 Defence Housing Authority.
Lahore Cantt
(Infra Development Works at OHWT Bdry Wall, Sector-X, DHA Ph-VIII (M/s Excellent Builders))

Reference # CED/TFL **35753** (Dr. Qasim Khan)
Reference of the request letter # 408/241/E/Lab/1057/-

Dated: 11-12-2020
Dated: 11-12-2020

Tension Test Report (Page -1/1)

Date of Test 14-12-2020
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	0.383	3	0.379	0.11	0.113	3500	4900	70200	68460	98200	95900	1.20	15.0	Prime Steel
2	0.384	3	0.379	0.11	0.113	3500	5000	70200	68260	100200	97600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:

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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
 Nazir & Sons Trust
 Nazir & Sons Trust Building Construction Project

Reference # CED/TFL **35755** (Dr. Qasim Khan)
 Reference of the request letter # NST/MT/SR/UET/005

Dated: 11-12-2020
 Dated: 11-12-2020

Tension Test Report (Page -1/1)

Date of Test 14-12-2020
 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	0.380	3	0.377	0.11	0.112	2800	4300	56200	55330	86200	85000	1.40	17.5	Koh-e-Noor Steel
2	0.372	3	0.373	0.11	0.109	2800	4200	56200	56420	84200	84700	1.30	16.3	
3	0.373	3	0.374	0.11	0.110	2900	4500	58200	58340	90200	90600	1.20	15.0	
4	0.365	3	0.370	0.11	0.107	2700	4100	54100	55480	82200	84300	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four 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.

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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,
 Flight Lieutenant
 Assistant Director Housing (Tech)
 AFOHS 'Dett', Lahore

Reference # CED/TFL **35757** (Dr. Qasim Khan)
 Reference of the request letter # AHQ/74314/2/AFOHS

Dated: 11-12-2020
 Dated: 10-12-2020

Tension Test Report (Page -1/1)

Date of Test 14-12-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		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	0.372	3/8	0.373	0.11	0.109	3400	5300	68200	68620	106200	107000	1.00	12.5	
2	0.372	3/8	0.373	0.11	0.109	3400	5400	68200	68590	108200	109000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratories
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,
 Purchase Officer
 Al-Kabir Town (Private) Limited
 Construction of 2-Bed Apartment Phase-I

Reference # CED/TFL **35761** (Dr. Qasim Khan)
 Reference of the request letter # SCM/12/04

Dated: 14-12-2020
 Dated: 14-12-2020

Tension Test Report (Page -1/1)

Date of Test 14-12-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.368	10	9.43	0.12	0.108	3400	5200	62464	69200	95533	105900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
M/S Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **35763** (Dr.Qasim Khan)
Reference of the request letter # IHPL/Steel/015

Dated: 14-12-2020
Dated: 11-12-2020

Tension Test Report (Page -1/1)

Date of Test 14-12-2020
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	0.392	3	0.383	0.11	0.115	3900	5100	78200	74600	102200	97600	1.20	15.0	PCS Steel
2	0.383	3	0.379	0.11	0.113	3800	5000	76200	74420	100200	98000	1.10	13.8	
3	0.393	3	0.384	0.11	0.116	3700	4900	74200	70570	98200	93500	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.

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