



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 Dev Works, Ph-IX (Prism), (Pkg-II) DHA Lahore)(M/s NLC)(Jamal)

Reference # CED/TFL **35129** (Dr. Ali Ahmed)
Reference of the request letter # 408/241/E/Lab/929/1426

Dated: 14-07-2020
Dated: 26-06-2020

Tension Test Report (Page – 1/1)

Date of Test 22-07-2020
Gauge length 2 inches
Description MS Pipe Steel Strip Tensile and Bend Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)										
1	MS Pipe	6	27.40x4.80	131.52	5100	6300	380.41	469.91	0.60	30.00	
2			27.40x4.80	131.52	4900	6300	365.49	469.91	0.70	35.00	
3	MS Pipe	8	27.40x4.40	120.56	5200	6600	423.13	537.04	0.65	32.50	
4			27.40x4.40	120.56	5500	6600	447.54	537.04	0.50	25.00	
5	MS Pipe	10	27.20x5.00	136.00	5300	6400	382.30	461.65	0.65	32.50	
6			27.60x5.00	138.00	5300	6400	376.76	454.96	0.65	32.50	
7	MS Pipe	12	27.40x5.00	137.00	5700	7200	408.15	515.56	0.60	30.00	
8			27.40x5.00	137.00	5700	7200	408.15	515.56	0.60	30.00	
Only Eight Samples for Tensile and Four Samples for Bend Test											
Bend Test											
Strip Taken from MS Pipe (6") Bend Test Through 180° is Satisfactory											
Strip Taken from MS Pipe (8") Bend Test Through 180° is Satisfactory											
Strip Taken from MS Pipe (10") Bend Test Through 180° is Satisfactory											
Strip Taken from MS Pipe (12") Bend Test Through 180° is Satisfactory											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Resident Engineer
 Javed Electrical Consultant Engineering Services
 Addl. Dir. (Dev)
 DHA Multan

Reference # CED/TFL **35139** (Dr. Ali Ahmed)
 Reference of the request letter # 07 07 2020

Dated: 16-07-2020
 Dated: 07-07-2020

Tension Test Report (Page -1/1)

Date of Test 22-07-2020
 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	0.378	3	0.376	0.11	0.111	3400	5300	68200	67390	106200	105100	1.30	16.3	
2	0.374	3	0.374	0.11	0.110	3400	5400	68200	68190	108200	108300	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														

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Ref: CED/TFL/07/35144

Dated: 16-07-2020

Dated of Test: 22-07-2020

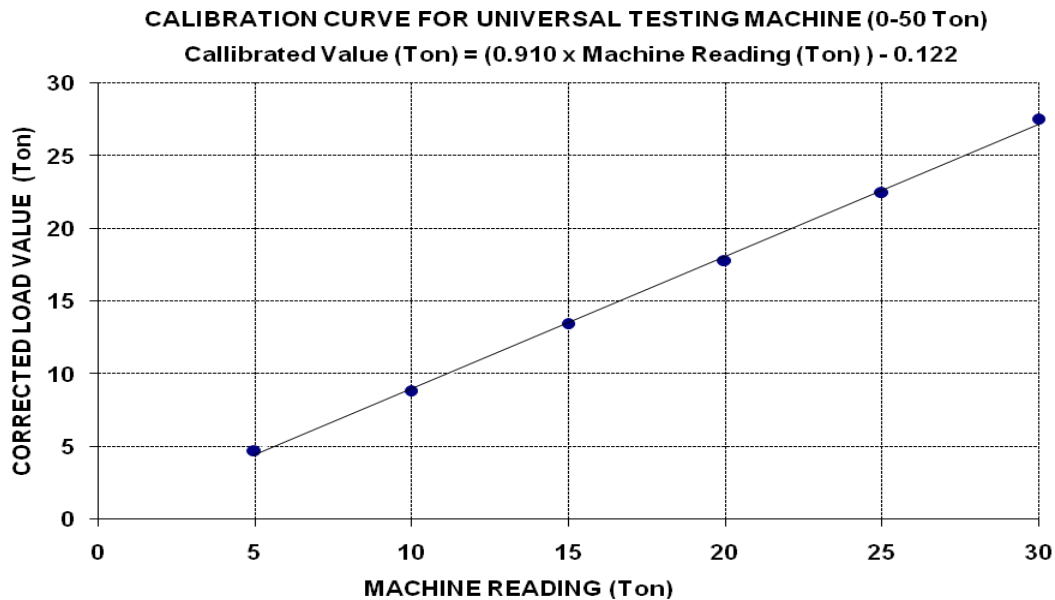
To
M/S United Wire Industries (Pvt) Ltd
Lahore

Subject:- **CALIBRATION REPORT FOR 50 TON (UTS) ULTIMATE TENSILE TESTING MACHINE (MARK: CED/TFL/07/35144)**

Reference to your letter No. UWIL/D-, dated: 16/06/2020 on the subject cited above. One Ultimate Tensile Testing Machine has been calibrated by using standard calibration device at site. The results are tabulated as under:

Total Range : Zero - 50 (Ton)
Calibrated Range : Zero - 30 (Ton)

Machine Reading (Ton)	5	10	15	20	25	30
Corrected Load Value (Ton)	4.72	8.86	13.45	17.82	22.52	27.53



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To,
 Resident Engineer
 Orbit Developers Private Limited
 The Spring, Gulberg Lahore

Reference # CED/TFL **35158** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 21-07-2020
 Dated: 21-07-2020

Tension Test Report (Page -1/1)

Date of Test 22-07-2020
 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	0.397	3	0.386	0.11	0.117	3500	5500	70200	66050	110200	103800	1.00	12.5	
2	0.395	3	0.385	0.11	0.116	3400	5400	68200	64490	108200	102500	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
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To,
 Muhammad Noman
 Model Sales Depot

Reference # CED/TFL **35160** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 21-07-2020
 Dated: 21-07-2020

Tension Test Report (Page -1/1)

Date of Test 22-07-2020
 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	0.371	3/8	0.372	0.11	0.109	3400	4600	68200	68810	92200	93100	1.10	13.8	
2	0.363	3/8	0.369	0.11	0.107	3500	4900	70200	72250	98200	101200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M.E
AS Enterprises
Style Textile Manga / Style Textile Rewind
(AA Associates)(Agha Steel))

Reference # CED/TFL **35161** (Dr. Ali Ahmed)
Reference of the request letter # USD/ASE/23

Dated: 21-07-2020
Dated: 21-07-2020

Tension Test Report (Page -1/1)

Date of Test 22-07-2020
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	0.409	10	9.94	0.12	0.120	4200	5200	77161	76970	95533	95300	1.00	12.5	
2	0.405	10	9.88	0.12	0.119	3700	5000	67975	68590	91858	92700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 The Engineer
 (SFMKBIC-D. G Khan)
 Infrastructure Development Authority of The Punjab
 50-B-III, Gulberg-III, Lahore
 (Establishment of SFMKB Institute of Cardiology D.G Khan
 Reference # CED/TFL **35163** (Dr. Asad Ali)
 Reference of the request letter # PD(DGKIC)/IDAP/2020/10346

Dated: 22-07-2020
 Dated: 21-07-2020

Tension Test Report (Page -1/1)

Date of Test 22-07-2020
 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	0.391	3	0.382	0.11	0.115	3940	4960	79000	75630	99400	95300	1.30	16.3	Pak Steel
-	0.389	3	0.381	0.11	0.114	3920	4960	78600	75600	99400	95700	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														

Witness by Ali Raza (AE (E&D), IDAP)

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To,
M/S Zardad & Brother
Pattan District Lower Kohistan
(Suspension Bridge over Sindh River at Seri Jijal District Lower Kohistan)

Reference # CED/TFL **35165** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 22-07-2020
Dated: 21-07-2020

Tension Test Report (Page – 1/1)

Date of Test 22-07-2020
Gauge length -----
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Yield Load	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	(kg)	
1	32	4.48	-----	62600	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
Only one sample for Test					

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works Sector-M, Extn), DHA Phase-V - (M/s AAJ Engrs)

Reference # CED/TFL **35166** (Dr. Ali Ahmed)
Reference of the request letter # 408/241/E/Lab/926/136

Dated: 22-07-2020
Dated: 22-07-2020

Tension Test Report (Page -1/1)

Date of Test 22-07-2020
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	0.375	3	0.375	0.11	0.110	3500	5000	70200	70020	100200	100100	1.20	15.0	Ittefaq Steel
2	0.374	3	0.374	0.11	0.110	3400	5000	68200	68180	100200	100300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 M/S Model Steel Enterprises (Pvt) Limited
 Darogawala, Lahore

Reference # CED/TFL **35167** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 22-07-2020
 Dated: 22-07-2020

Tension Test Report (Page -1/1)

Date of Test 22-07-2020
 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	0.377	3/8	0.376	0.11	0.111	3900	5200	78200	77470	104200	103300	0.90	11.3	
2	0.376	3/8	0.375	0.11	0.111	3600	4800	72200	71810	96200	95800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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