



**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 M.R. Electric Concern (Pvt.) Ltd  
Lahore

Reference # CED/TFL **34909** (Dr. Safer Abbass)  
Reference of the request letter # MREC/021/2020

Dated: 18-05-2020  
Dated: 18-05-2020

**Tension Test Report** (Page -1/2)

Date of Test 20-05-2020  
Gauge length 8 inches  
Description MS Plain Wire Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	0.155	5	5.01	-----	19.7	1100	1300	547	647	0.30	3.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>												
Bend Test												

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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Reference # CED/TFL **34909** (Dr. Safer Abbass)  
Reference of the request letter # MREC/021/2020

Dated: 18-05-2020

Dated: 18-05-2020

**Tension Test Report** (Page -2/2)

Date of Test 20-05-2020  
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	436.0	8900	87.31	10900	106.93	>3.50	xx
2	11.11 (7/16")	582.0	588.0	13000	127.53	14700	144.21	>3.50	xx
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only two samples for Test									

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**UET Lahore, Pakistan.**

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To,  
 Consultant Engineer  
 G3 Engineering Consultant (Pvt) Ltd  
 Establishment of Muhammad Nawaz Sharif University of Agriculture Multan (Phase-II)

Reference # CED/TFL **34911** (Dr. Qasim Khan)  
 Reference of the request letter # G3/RE/MNS-UAM/07320

Dated: 18-05-2020  
 Dated: 07-03-2020

**Tension Test Report** (Page -1/1)

Date of Test 20-05-2020  
 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 <sup>2</sup> )		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	0.413	3	0.393	0.11	0.121	3900	5300	78200	70820	106200	96300	1.10	13.8	S.J Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**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**

To,  
 Jr. Engineer (Elect.), SWP  
 Pakistan Atomic Energy Commission  
 D.G. Khan  
 (M/s Irshad Hussain Const. Co. D.G. Khan)

Reference # CED/TFL **34912** (Dr. Qasim Khan)  
 Reference of the request letter # SWP/W(2370)/2019/2851

Dated: 18-05-2020  
 Dated: 08-05-2020

**Tension Test Report** (Page -1/1)

Date of Test 20-05-2020  
 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 <sup>2</sup> )		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	0.384	3	0.379	0.11	0.113	4100	5200	82200	80150	104200	101700	1.10	13.8	
2	0.358	3	0.366	0.11	0.105	4100	5200	82200	85880	104200	109000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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**UET Lahore, Pakistan.**

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**Test Floor Laboratory**  
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To,  
 Project Manager  
 Depac  
 Construction of Dr. Maqbool Ahmed Block, King Edward Medical University (KEMU), Lahore

Reference # CED/TFL **34915** (Dr. Safer Abbass)  
 Reference of the request letter # T-39/03/18

Dated: 19-05-2020  
 Dated: 16-05-2020

**Tension Test Report** (Page -1/1)

Date of Test 20-05-2020  
 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 <sup>2</sup> )		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	0.371	0.11	0.108	3500	4900	70200	71200	98200	99700	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
M/S CM Engineering (Pvt) Ltd  
Lahore  
(CMPAK Project Site ID = 42995, 43005, 43030, 43031, 43059, 43079, 43082, 43096, 43145, 41606, 42752, 42943, 43110, 43077)

Reference # CED/TFL **34916** (Dr. Safer Abbass)  
Reference of the request letter # CME/Steel/CMPAK/332

Dated: 19-05-2020  
Dated: 07-05-2020

**Tension Test Report** (Page -1/1)

Date of Test 20-05-2020  
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 <sup>2</sup> )		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	0.395	10	9.76	0.12	0.116	3400	5300	62464	64560	97370	100700	1.00	12.5	
2	0.405	10	9.89	0.12	0.119	3500	5300	64301	64820	97370	98200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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To,  
 Project Director  
 New Metro City Housing Scheme  
 Kharian Sara I Alamgir

Reference # CED/TFL **34921** (Dr. Safer Abbass)  
 Reference of the request letter # PD/NMC/20/60

Dated: 20-05-2020  
 Dated: 19-05-2020

**Tension Test Report** (Page -1/1)

Date of Test 20-05-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.373	0.11	0.109	3300	4800	66200	66710	96200	97100	1.10	13.8	Al Moiz Steel
2	0.395	3/8	0.384	0.11	0.116	3400	4800	68200	64550	96200	91200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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