



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 Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **6048** (Dr. M Rizwan Riaz)
Reference of the request letter # WRD/010/LAB057

Dated: 27-11-2024

Dated: 27-11-2024

Tension Test Report (Page – 1/1)

Date of Test 02-12-2024

Description Steel Wire Rope (SC GI) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	16 (7x19)	0.97	16300	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,

M/S Al – Rehman Garden
Phase-II, Near Faiz Pur Interchange Sharkpur Road, Lahore
(Project of Mosque First Floor Slab in B-Block of Al-Rehman Garden Phase-II, Lahore.)

Reference # CED/TFL **6058** (Dr. M Rizwan Riaz)
Reference of the request letter # A.R/40-24

Dated: 28-11-2024
Dated: 28-11-2024

Tension Test Report (Page -1/1)

Date of Test 02-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.361	3	0.368	0.11	0.106	3900	5100	78200	81040	102200	106000	1.00	12.5	Mughal Steel
2	0.342	3	0.358	0.11	0.101	4000	5000	80200	87590	100200	109500	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
18 Engineer Battalion
Lahore Cantonment
(Construction of Boundary Wall at Mehfooz Shaheed Garrison.)

Reference # CED/TFL **6064** (Dr. Rizwan Riaz)
Reference of the request letter # 607/General

Dated: 29-11-2024
Dated: 29-11-2024

Tension Test Report (Page -1/2)

Date of Test 02-12-2024
Gauge length 8 inches
Description MS Wire Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		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	0.081	-----	3.63	----	10.3	600	760	569	721	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
18 Engineer Battalion
Lahore Cantonment
(Construction of Boundary Wall at Mehfooz Shaheed Garrison.)

Reference # CED/TFL **6064** (Dr. Rizwan Riaz)
Reference of the request letter # 607/General

Dated: 29-11-2024
Dated: 29-11-2024

Tension Test Report (Page -2/2)

Date of Test 02-12-2024
Gauge length 200 mm
Description HT Wire Tensile Test

Sr. No.	Weight	Diameter/ size		Area (mm ²)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(mm)		
1	0.100	-----	4.03	-----	12.8	2040	2480	1566	1903	4	2.0	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratories
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To,
 Resident Engineer
 NESPAK
 Expansion of Joint Chek Post Wagha, Lahore.

Reference # CED/TFL **6066** (Dr. M Rizwan Riaz)
 Reference of the request letter # 4749/031/YK/01/99

Dated: 29-11-2024
 Dated: 29-11-2024

Tension Test Report (Page -1/1)

Date of Test 02-12-2024
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	3	0.373	0.11	0.109	3000	4500	60200	60660	90200	91000	1.10	13.8	Aziz Steel
2	0.368	3	0.371	0.11	0.108	3000	4500	60200	61050	90200	91600	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
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To,

Manager Projects
Fatima Memorial Hospital
Construction of New Building at Fatima Memorial Hospital Lahore.

Reference # CED/TFL **6067** (Dr. M Rizwan Riaz)
Reference of the request letter # FMH/RAF/STE/36

Dated: 29-11-2024
Dated: 29-11-2024

Tension Test Report (Page -1/1)

Date of Test 02-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.378	3	0.376	0.11	0.111	4100	5000	82200	81350	100200	99300	0.80	10.0	
2	0.376	3	0.375	0.11	0.111	4200	5100	84200	83660	102200	101600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,

Dy Dir Infra
Defence Housing Authority, Gujranwala
"Sector J."

Reference # CED/TFL **6071** (Dr. M Kashif)
Reference of the request letter # 111/DD/Lab/J/477

Dated: 02-12-2024
Dated: 25-11-2024

Tension Test Report (Page -1/1)

Date of Test 02-12-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.369	3	0.372	0.11	0.109	3630	5470	72800	73700	109600	111100	1.40	17.5	
2	0.370	3	0.372	0.11	0.109	3670	5450	73600	74470	109200	110600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
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