



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 Delton Construction Co.
Karachi
(Masood Spinning Unit 3, Phool Nagar)

Reference # CED/TFL **1811** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 22-08-2022
Dated: 19-08-2022

Tension Test Report (Page -1/1)

Date of Test 23-08-2022
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	0.418	10	10.05	0.12	0.123	4400	5500	80835	78870	101044	98600	1.00	12.5	Agha Steel
2	0.408	10	9.92	0.12	0.120	4000	5200	73487	73530	95533	95600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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STRUCTURAL ENGINEERING DIVISION
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To,
 Sr. Engineer (Civil), WASO
 PEAS, BINO Bahawalpur

Reference # CED/TFL **1812** (Dr. M Rizwan Riaz)
 Reference of the request letter # WASO-BINO-21-002

Dated: 22-08-2022
 Dated: 20-05-2022

Tension Test Report (Page -1/1)

Date of Test 23-08-2022
 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 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	0.109	3300	5000	66200	66430	100200	100700	0.90	11.3	
2	0.404	3/8	0.389	0.11	0.119	3300	4900	66200	61260	98200	91000	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Project Manager
 Banu Mukhtar Contracting (Pvt) Ltd
 Roomi Fabrics Ltd, Quaid-e-Azam Business Pak, Sheikhpura

Reference # CED/TFL **1813** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 22-08-2022
 Dated: 22-08-2022

Tension Test Report (Page -1/1)

Date of Test 23-08-2022
 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	0.414	10	10.00	0.12	0.122	3400	5300	62464	61610	97370	96100	1.40	17.5	Moiz Steel
2	0.402	10	9.86	0.12	0.118	3300	5200	60627	61500	95533	96900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Lead Civil
 StarchPack (private) Limited
 StrachPack Greenfield Project at Kasur.

Reference # CED/TFL **1814, 1817** (Dr. Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 22-08-2022
 Dated: 22-08-2022

Tension Test Report (Page -1/2)

Date of Test 23-08-2022
 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	0.410	10	9.95	0.12	0.121	4100	5300	75324	74940	97370	96900	1.20	15.0	
2	0.409	10	9.93	0.12	0.120	3800	5000	69812	69740	91858	91800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

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To,
 Lead Civil
 StarchPack (private) Limited
 StrachPack Greenfield Project at Kasur.

Reference # CED/TFL **1814, 1817** (Dr. Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 22-08-2022
 Dated: 22-08-2022

Tension Test Report (Page -2/2)

Date of Test 23-08-2022
 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	4.256	32	32.06	1.25	1.251	43200	55000	76191	76120	97002	97000	1.60	20.0	
2	4.171	32	31.74	1.25	1.226	37400	49800	65962	67240	87831	89600	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Sub Divisional Officer
 Highway Sub Division
 Lalian
 (Reconstruction / Rehabilitation of Carpet Road from Kalowal to Wasoana I/C Links in Tehsil
 Lalian District Chiniot, Length = 9.10 km)
 Reference # CED/TFL **1816** (Dr. M Rizwan Riaz) Dated: 22-08-2022
 Reference of the request letter # 310/L Dated: 21-04-2022

Tension Test Report (Page -1/1)

Date of Test 23-08-2022
 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	0.409	3	0.391	0.11	0.120	3700	5500	74200	67780	110200	100800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one 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 United Mechanical Industries (Pvt) Ltd
Gujranwala

Reference # CED/TFL **1819** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 23-08-2022

Dated: 22-08-2022

Tension Test Report (Page – 1/1)

Date of Test 23-08-2022
Gauge length 2 inches
Description Steel Road Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)									
1	Steel Road	19x19	18.80x19.00	357.20	20000	25800	549	709	0.30	15.00	
2	Steel Road	22x22	22.00x22.00	484.00	29500	35300	598	715	0.40	20.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

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To,
 Head / Manager Projects
 Shaukat Khanum Memorial Trust
 Construction of Multi-Storied Parking Garage SKMCH & RC, Lahore

Reference # CED/TFL **1820** (Dr. M Rizwan Riaz)
 Reference of the request letter # SKM/PG/UET/08/13

Dated: 23-08-2022
 Dated: 23-08-2022

Tension Test Report (Page -1/1)

Date of Test 23-08-2022
 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 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	0.370	3	0.372	0.11	0.109	3300	4800	66200	66820	96200	97200	1.00	12.5	
-	0.433	3	0.402	0.11	0.127	3100	4900	62200	53740	98200	85000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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