



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 Javaid Industrial Company
Lahore

Reference # CED/TFL **36479** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 31-05-2021

Dated: 31-05-2021

Tension Test Report (Page – 1/1)

Date of Test 03-06-2021

Gauge length 2 inches

Description Steel Plate Steel Strip Tensile and Bend Test as per ASTM A-36

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	6	24.30x5.80	140.94	5300	7800	368.90	542.91	0.70	35.00	
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Only One Sample for Tensile and One Sample for Bend Test										
Bend Test										
Strip Taken from Steel Plate (6mm) Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Resident Engineer
 NESPAK
 Construction Supervision of Sewerage & W/S Scheme WASA, Multan
 (Sewerage Scheme for Areas of Union # 54 (North Zone) WASA, Multan)

Reference # CED/TFL **36490** (Dr. Usman Almal)
 Reference of the request letter # 3969/11/AH/01/204

Dated: 02-06-2021
 Dated: 25-05-2021

Tension Test Report (Page -1/1)

Date of Test 03-06-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test

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	0.162	1/4	0.246	-----	0.048	1200	1500	-----	55500	-----	69400	1.80	22.5	
2	0.169	1/4	0.252	-----	0.050	1440	1800	-----	63770	-----	79800	1.50	18.8	
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Note: only two samples for tensile and one sample for bend test														
Bend Test														
1/4" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Assistant Works Manager
PR/ Bridge Workshop
Jhelum

Reference # CED/TFL **36495** (Dr. Usman Akmal)
Reference of the request letter # 196-S/103

Dated: 02-06-2021
Dated: 02-06-2021

Tension Test Report (Page – 1/1)

Date of Test 03-06-2021
Gauge length 2 inches
Description Steel Plate Steel Strip Tensile Test as per ASTM A-36

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	4x1/8x15	25.60x2.80	71.68	2900	3500	396.89	479.00	0.50	25.00	
2		25.80x2.80	72.24	2600	3500	353.07	475.29	0.50	25.00	
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-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Deputy General Manager (Projects)
 Habib Rafiq Engineering (Pvt) Ltd
 Development of Lahore Smart City

Reference # CED/TFL **36496** (Dr. Usman Almal)
 Reference of the request letter # L-LSC-21-26

Dated: 02-06-2021
 Dated: 02-06-2021

Tension Test Report (Page -1/1)

Date of Test 03-06-2021
 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	0.417	10	10.04	0.12	0.123	4400	5800	80835	79100	106556	104300	1.00	12.5	Agha Arcon
2	0.416	10	10.02	0.12	0.122	4300	5700	78998	77550	104719	102800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **36497** (Dr. Usman Akmal)
Reference of the request letter # IHPL/Steel/078

Dated: 02-06-2021

Dated: 31-05-2021

Tension Test Report (Page -1/1)

Date of Test 03-06-2021
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	4.377	10	1.280	1.27	1.286	38600	58800	67000	66140	102100	100800	1.40	17.5	PCS Steel
2	4.403	10	1.284	1.27	1.294	38400	58600	66700	65400	101700	99800	1.50	18.8	
3	4.370	10	1.279	1.27	1.285	38800	58800	67400	66580	102100	100900	1.50	18.8	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

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To,
 Resident Engineer
 Orbit Housing
 The Spring Apartment Homes, Lahore

Reference # CED/TFL **36501** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 03-06-2021
 Dated: 03-06-2021

Tension Test Report (Page -1/1)

Date of Test 03-06-2021
 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	0.370	3	0.372	0.11	0.109	3000	5000	60200	60790	100200	101400	1.50	18.8	
2	0.361	3	0.368	0.11	0.106	3100	4800	62200	64400	96200	99800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
M/S Izhar Construction (Pvt) Ltd
Lahore
(Construction of Centralized Substation at Hyundai Nishat Motorway Pvt. Limited, Faisalabad)

Reference # CED/TFL **36503** (Dr. Asad Ali)

Dated: 03-06-2021

Reference of the request letter # ICPL/CONST-HNMPL/21/066

Dated: 03-06-2021

Tension Test Report (Page -1/1)

Date of Test 03-06-2021

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	0.408	10	9.92	0.12	0.120	4050	5120	74405	74440	94063	94200	1.20	15.0	
2	0.410	10	9.95	0.12	0.121	3980	5050	73119	72720	92777	92300	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														

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