



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 Stallion Engineering
Gulberg II, Lahore
SRA Gate House DHA Multan
Reference # CED/TFL **35736** (Dr. Waseem Abbass)
Reference of the request letter # DHA/MG/223/MT/02

Dated: 10-12-2020

Dated: 08-12-2020

Tension Test Report (Page – 1/1)

Date of Test 14-12-2020

Gauge length 2 inches

Description Structural Steel Strip Tensile Test as per ASTM A36

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	4	26.00x4.00	104.00	3200	4500	301.85	424.47	0.80	40.00	
2		26.00x4.00	104.00	3200	4600	301.85	433.90	0.80	40.00	
3	5	25.70x5.00	128.50	4000	6200	305.37	473.32	0.80	40.00	
4		25.80x5.00	129.00	4100	6200	311.79	471.49	0.80	40.00	
-	6	25.80x6.00	154.80	4600	7100	291.51	449.94	0.80	40.00	
-		25.80x6.00	154.80	4700	7100	297.85	449.94	0.80	40.00	
	8	25.80x8.00	206.40	8700	11500	413.50	546.58	0.80	40.00	
		25.80x8.00	206.40	8900	11600	423.01	551.34	0.75	37.50	
	10	25.80x10.00	258.00	10600	14300	403.05	543.73	0.70	35.00	
		25.80x10.00	258.00	10800	14400	410.65	547.53	0.75	37.50	
	12	25.80x12.00	309.60	12400	15100	392.91	478.46	0.80	40.00	
		25.90x12.00	310.80	12200	15000	385.08	473.46	0.85	42.50	
Only Twelve Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 R.E.
 NESPAK

Construction of Infrastructure and Allied Works for Metro Bus Services Peshawar Mor to New Islamabad International Airport (NIIA)-Package-I

Reference # CED/TFL **35756** (Dr. Waseem Abbass)
 Reference of the request letter # RE/MBS/ISLD/KI/569

Dated: 14-12-2020
 Dated: 16-11-2020

Tension Test Report (Page -1/1)

Date of Test 15-12-2020
 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	0.101	2	0.194	-----	0.030	-----	1280	-----	-----	-----	95400	1.10	13.8	
2	0.101	2	0.194	-----	0.030	-----	1240	-----	-----	-----	92500	0.75	9.4	
3	0.391	3	0.383	0.11	0.115	4100	5300	82200	78530	106200	101600	1.30	16.3	
4	0.393	3	0.383	0.11	0.115	3900	5100	78200	74490	102200	97500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#2 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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STRUCTURAL ENGINEERING DIVISION
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To,
 Associate Manager C, R & M
 Allied Bank Limited
 Engineering Cell, South-II, Multan
 Construction of New Godowns and Infrastructure) at ABL Warehouse 18 - Hazari, Jhang

Reference # CED/TFL **35758** (Dr. Waseem Abbass)
 Reference of the request letter # Nil

Dated: 14-12-2020
 Dated: 12-12-2020

Tension Test Report (Page -1/1)

Date of Test 15-12-2020
 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 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	0.373	0.11	0.109	3400	5000	68200	68640	100200	101000	1.20	15.0	
2	0.365	3/8	0.370	0.11	0.107	3400	5100	68200	69760	102200	104700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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STRUCTURAL ENGINEERING DIVISION
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To,
 Project Coordinator
 Petrocon (Pvt) Ltd
 Mechanical and Foundation Works for Construction of Sahiwal Bulk Oil Depot Extension
 (Euro Oil (Pvt) Ltd)

Reference # CED/TFL **35759** (Dr. Waseem Abbass)
 Reference of the request letter # 100/UET-P301/TEST

Dated: 14-12-2020
 Dated: 12-12-2020

Tension Test Report (Page -1/1)

Date of Test 15-12-2020
 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	0.376	3/8	0.375	0.11	0.111	3400	4900	68200	67750	98200	97700	1.40	17.5	Kamran Steel
2	0.376	3/8	0.375	0.11	0.110	3400	4800	68200	67830	96200	95800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratories
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To,
 Manager Projects
 Ittefaq Construction Services
 Construction of Commercial Plaza (42B, 43B, 44B Sector C and 19A) Main Boulevard Bahria
 Town Lahore

Reference # CED/TFL **35762** (Dr. Waseem Abbass)
 Reference of the request letter # OICS/H.O/B.T P/06

Dated: 14-12-2020
 Dated: 10-12-2020

Tension Test Report (Page -1/1)

Date of Test 15-12-2020
 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	0.379	3	0.377	0.11	0.111	3200	5100	64200	63320	102200	101000	1.20	15.0	Afco Steel
2	0.378	3	0.376	0.11	0.111	3200	5100	64200	63430	102200	101100	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														

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To,
 Resident Engineer
 New Vision Engineering Consultant
 Construction of Molecular Biology and Biotechnology Academic Block in BZU University,
 Multan

Reference # CED/TFL **35764** (Dr. Waseem Abbass)
 Reference of the request letter # RE/NVEC/BZU/20/67

Dated: 15-12-2020
 Dated: 02-12-2020

Tension Test Report (Page -1/1)

Date of Test 15-12-2020
 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	0.376	3	0.375	0.11	0.110	3600	5000	72200	71880	100200	99900	1.20	15.0	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
 Resident Engineer
 New Vision Engineering Consultant
 Construction of Molecular Biology and Biotechnology Hostel Block in BZU University, Multan

Reference # CED/TFL **35765** (Dr. Waseem Abbass)
 Reference of the request letter # RE/NVEC/BZU/20/65

Dated: 15-12-2020
 Dated: 02-12-2020

Tension Test Report (Page -1/1)

Date of Test 15-12-2020
 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	0.374	3	0.374	0.11	0.110	3600	5000	72200	72090	100200	100200	1.20	15.0	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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