



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Engineer's Representative
 NESPAK
 Package 1: Construction of Entrance Gate, Security Road, Boundary Wall and Watch Tower of
 Lahore Knowledge Park

Reference # CED/TFL **33022** (Dr. Waseem Abbas)
 Reference of the request letter # 3957/13/MS/10/173

Dated: 08-04-2019
 Dated: 03-04-2019

Tension Test Report (Page – 1/2)

Date of Test 16-04-2019
 Gauge length 2 inches
 Description Angle Iron Steel Strip Tensile and Bend 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	Angle Iron	75x75x6	28.00x6.60	184.80	6400	10300	339.74	546.77	0.70	35.00	
2		75x75x6	27.80x6.40	177.92	7100	10600	391.47	584.45	0.60	30.00	
-	Angle Iron	125x125x9	27.90x12.20	340.38	11700	17700	337.20	510.13	0.80	40.00	
-		125x125x9	28.20x12.30	346.86	12400	18600	350.70	526.05	0.65	32.50	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile and Two Samples for Bend Test											
Bend Test											
Strip Taken from Angle Iron (75x75x6mm) Bend Test Through 180° is Satisfactory											
Strip Taken from Angle Iron (125x125x9mm) Bend Test Through 180° is Satisfactory											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Reference # CED/TFL **33022** (Dr. Waseem Abbas)
Reference of the request letter # 3957/13/MS/10/173

Dated: 08-04-2019
Dated: 03-04-2019

Thickness Test Report (Page – 2/2)

Date of Test 16-04-2019
Gauge length -----
Description Angle Iron Thickness Test

Sr. No.	Designation	Thickness	Remark
	(mm)	(mm)	
1	75x75x6	6.50	
2	125x125x9	12.20	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only Two Samples for Test			

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To,
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 Package 1: Construction of Entrance Gate, Security Road, Boundary Wall and Watch Tower of
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Reference # CED/TFL **33048** (Dr. Waseem Abbas)
 Reference of the request letter # 3957/13/MS/10/178

Dated: 11-04-2019
 Dated: 10-04-2019

Tension Test Report (Page – 1/2)

Date of Test 16-04-2019
 Gauge length 2 inches
 Description M.S Sheet Steel Strip Tensile and Bend 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	M.S Sheet	10	28.20x9.90	279.18	8400	13600	295.16	477.89	0.75	37.50	
2		10	28.20x9.90	279.18	8600	13700	302.19	481.40	0.85	42.50	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test											
Bend Test											
Strip Taken from M.S Sheet (10mm) Bend Test Through 180° is Satisfactory											

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Reference # CED/TFL **33048** (Dr. Waseem Abbas)
Reference of the request letter # 3957/13/MS/10/178

Dated: 11-04-2019
Dated: 10-04-2019

Thickness Test Report (Page – 2/2)

Date of Test 16-04-2019
Gauge length -----
Description M.S Sheet Thickness Test

Sr. No.	Designation	Thickness	Remark
	(mm)	(mm)	
1	10	9.90	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only One Sample for Test			

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To,
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Reference # CED/TFL **33049** (Dr. Waseem Abbas)
 Reference of the request letter # 3957/13/MS/10/179

Dated: 11-04-2019
 Dated: 10-04-2019

Tension Test Report (Page – 1/2)

Date of Test 16-04-2019
 Gauge length 2 inches
 Description Angle Iron Steel Strip Tensile and Bend 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	Angle Iron	75x75x9	28.10x9.40	264.14	9700	14600	360.25	542.24	0.70	35.00	
2		75x75x9	28.20x9.50	267.90	9900	14400	362.52	527.30	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test											
Bend Test											
Strip Taken from Angle Iron (75x75x9mm) Bend Test Through 180° is Satisfactory											

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Reference # CED/TFL **33049** (Dr. Waseem Abbas)
Reference of the request letter # 3957/13/MS/10/179

Dated: 11-04-2019
Dated: 10-04-2019

Thickness Test Report (Page – 2/2)

Date of Test 16-04-2019
Gauge length -----
Description Angle Iron Thickness Test

Sr. No.	Designation	Thickness	Remark
	(mm)	(mm)	
1	75x75x9	9.45	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only One Sample for Test			

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To,
M/S Riaz-ud-Din Engineering (Pvt) Ltd
Walton Road, Lahore

Reference # CED/TFL **33060** (Dr. Waseem Abbas)
Reference of the request letter # Nil

Dated: 12-04-2019
Dated: 12-04-2019

Tension Test Report (Page -1/2)

Date of Test 16-04-2019
Gauge length 8 inches
Description J-Bolt 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	5.603	30	30.14	-----	713.7	29400	47600	404	654	1.7	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

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To,
M/S Riaz-ud-Din Engineering (Pvt) Ltd
Walton Road, Lahore

Reference # CED/TFL **33060** (Dr. Waseem Abbas)
Reference of the request letter # Nil

Dated: 12-04-2019

Dated: 12-04-2019

Slippage Test Report (Page -2/2)

Date of Test 16-04-2019

Description J-Bolt Slippage Test

Sr. No.	Dia	Failure Load	Mode of Failure	Remarks
	(mm)	(kg)	---	
1	30	29000	Thread Failure	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Note: only one sample for test				

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To,
 Executive Engineer
 PASSCO Comp at Sukkur

Reference # CED/TFL **33068** (Dr. M Rizwan Riaz)
 Reference of the request letter # PASSCO/EE/Suk/19/04

Dated: 15-04-2019
 Dated: 09-04-2019

Tension Test Report (Page -1/1)

Date of Test 16-04-2019
 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	0.366	3/8	0.370	0.11	0.107	2400	3400	48100	49240	68200	69800	1.10	13.8	
2	0.362	3/8	0.368	0.11	0.106	2200	3400	44100	45600	68200	70500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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To,
 122 Quarring & Carpetting Battalion Engineers
 Bani Afghan Camp
 Care of Signal Centre (FW Chaklala)

Reference # CED/TFL **33070** (Dr. M Rizwan Riaz)
 Reference of the request letter # 607/CM

Dated: 15-04-2019
 Dated: 13-04-2019

Tension Test Report (Page -1/1)

Date of Test 16-04-2019
 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	0.395	10	9.77	0.11	0.116	3500	4900	70200	66440	98200	93100	1.30	16.3	
2	0.396	10	9.78	0.11	0.116	3400	4800	68200	64370	96200	90900	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														

I/C Testing Laboratoires
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STRUCTURAL ENGINEERING DIVISION
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To,
 M/S Defence Housing Authority.
 Lahore Cantt
 (Const of Kanal Villas at DRGCC Ph-III, DHA Ph-VII)(M/s Construct)

Reference # CED/TFL 3372 (Dr. M Rizwan Riaz)
 Reference of the request letter # 408/241/E/Lab/527/107

Dated: 15-04-2019
 Dated: 15-04-2019

Tension Test Report (Page -1/1)

Date of Test 16-04-2019
 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	0.362	3	0.368	0.11	0.106	3400	4500	68200	70370	90200	93200	1.40	17.5	Kamran Steel
2	0.361	3	0.368	0.11	0.106	3400	4600	68200	70580	92200	95500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
 NESPAK
 Development of Katarpur Corridor
 (RECO)

Reference # CED/TFL **33073** (Dr. Waseem Abbas)
 Reference of the request letter # SA-394/DKC/B Test/NA/55

Dated: 15-04-2019
 Dated: 14-04-2019

Tension Test Report (Page -1/1)

Date of Test 16-04-2019
 Gauge length 8 inches
 Description Anchor Bolt Tensile Test as per ASTM- F1554

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	5.612	30	30.17	-----	714.9	24400	36400	335	499	2.3	28.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
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To,
 Resident Engineer
 NESPAK
 Development of Katarpur Corridor
 (AABCO)

Reference # CED/TFL **33074** (Dr. Waseem Abbas)
 Reference of the request letter # SA-394/DKC/B Test/NA/54

Dated: 15-04-2019
 Dated: 14-04-2019

Tension Test Report (Page -1/1)

Date of Test 16-04-2019
 Gauge length 8 inches
 Description Anchor Bolt Tensile Test as per ASTM- F1554

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	6.217	32	31.75	-----	792.0	22400	36200	277	448	2.3	28.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

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To,
 Resident Engineer
 NESPAK
 Development of Katarpur Corridor
 (MKB)

Reference # CED/TFL **33075** (Dr. Waseem Abbas)

Dated: 15-04-2019

Reference of the request letter # SA-394/DKC/B Test/NA/56

Dated: 14-04-2019

Tension Test Report (Page -1/1)

Date of Test 16-04-2019

Gauge length 8 inches

Description Anchor Bolt Tensile Test as per ASTM- F1554

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	6.259	32	31.86	-----	797.4	23400	36600	288	450	2.7	33.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratories
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To,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue Project, 17-A, Cooper Road, Lahore
 (SJ Steel)

Reference # CED/TFL **33078** (Dr. Waseem Abbas)
 Reference of the request letter # CONC-20190416

Dated: 16-04-2019
 Dated: 16-04-2019

Tension Test Report (Page -1/1)

Date of Test 16-04-2019
 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	0.360	3	0.367	0.11	0.106	4000	5000	80200	83280	100200	104100	0.90	11.3	
2	0.371	3	0.372	0.11	0.109	4400	5300	88200	89030	106200	107300	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,
Manager Quality Control
Ravi Green Engineering (Pvt) Ltd
Construction of Flag Poles at DHA Bahawalpur 20 meter & 45meter
(CTE (Pvt) Ltd)(P-643)

Reference # CED/TFL **33079** (Dr. Waseem Abbas)
Reference of the request letter # RG/MT/UET/2628

Dated: 16-04-2019
Dated: 16-04-2019

Tension Test Report (Page – 1/1)

Date of Test 16-04-2019
Gauge length 8 inches
Description Carbon Steel Plate 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)										
1	P643-T20-1	20	39.90x20.65	823.94	26500	39600	315.52	471.49	2.50	31.25	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test											
Bend Test											

Witness by M Hinan Chaudhary (CTE)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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