



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

To,  
 Resident Engineer-I  
 NESPAK  
 Widening of Aik Moria Pull, Lahore

Reference # CED/TFL **34111, 199** (Dr. Waseem Abbas)  
 Reference of the request letter # 3772/AMP/103/MWA/04/44

Dated: 31-10-2019  
 Dated: 10-10-2019

**Tension Test Report** (Page – 1/8)

Date of Test 13-11-2019  
 Gauge length 2 inches  
 Description Steel Structure 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
	-----		(mm)	(mm <sup>2</sup> )	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Angle	127x127x12mm	26.10x12.50	326.25	11300	17300	339.78	520.19	0.70	35.00	
2		127x127x12mm	26.10x12.50	326.25	11200	17000	336.77	511.17	0.75	37.50	
3	Angle	152x152x20mm	25.70x19.60	503.72	17200	27300	334.97	531.67	0.80	40.00	
4		152x152x20mm	25.70x19.60	503.72	16900	26900	329.13	523.88	0.80	40.00	
5	Angle	101x101x10mm	26.10x9.80	255.78	8400	12900	322.17	494.76	0.80	40.00	
6		101x101x10mm	26.10x9.80	255.78	8300	12700	318.33	487.09	0.70	35.00	
7	Angle	2-1/2x2-1/2x1/4	26.20x6.10	159.82	5700	8400	349.87	515.61	0.70	35.00	
8		2-1/2x2-1/2x1/4	26.10x6.10	159.21	6100	8900	375.86	548.39	0.80	40.00	
9	I-Beam (Cross Girder)	18"x7"	26.10x13.40	349.74	11900	19400	333.79	544.16	0.75	37.50	
10		18"x7"	28.70x13.40	384.58	12000	20600	306.10	525.47	0.70	35.00	
<b>Only Ten Samples for Tensile Test</b>											
<b>Bend Test</b>											

**I/C Testing Laboratories**  
**UET Lahore, Pakistan.**

Note:

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 Reference of the request letter # 3772/AMP/103/MWA/04/44

Dated: 31-10-2019  
 Dated: 10-10-2019

**Tension Test Report** (Page – 2/8)

Date of Test 13-11-2019  
 Gauge length 2 inches  
 Description Steel Structure 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
1	I-Beam (Rail Girder)	12"x6"	26.10x8.40	219.24	7900	12200	353.49	545.89	0.65	32.50	
2		12"x6"	26.40x8.40	221.76	7800	12400	345.05	548.54	0.60	30.00	
3	Channel	6"x3"	26.90x7.90	212.51	7700	11900	355.45	549.33	0.60	30.00	
4		6"x3"	27.90x7.90	220.41	7800	12000	347.16	534.10	0.60	30.00	
5	Angle	76x76x10mm	26.20x9.75	255.45	8300	12700	318.74	487.72	0.60	30.00	
6		76x76x10mm	26.20x9.75	255.45	8500	13100	326.42	503.08	0.70	35.00	
7	Strip	150x38x16mm	18.10x15.60	282.36	8700	13900	302.26	482.93	0.70	35.00	
8		150x38x16mm	18.10x15.60	282.36	8700	13800	302.26	479.45	0.70	35.00	
9	Plate	152x250x12mm	18.60x11.80	219.48	7900	12100	353.10	540.83	0.70	35.00	
10		152x250x12mm	18.60x11.80	219.48	7800	11900	348.63	531.89	0.70	35.00	
<b>Only Ten Samples for Tensile Test</b>											
<b>Bend Test</b>											

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Widening of Aik Moria Pull, Lahore

Reference # CED/TFL **34111, 199** (Dr. Waseem Abbas)  
Reference of the request letter # 3772/AMP/103/MWA/04/44

Dated: 31-10-2019  
Dated: 10-10-2019

**Weight & Size Test Report** (Page – 3/8)

Date of Test 13-11-2019  
Gauge length -----  
Description Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
1	127x127x12mm	11480	45.70	25.12	127.80	127.20	12.40	
2	152x152x20mm	20000	46.10	43.38	155.20	156.10	19.60	
3	101x101x10mm	6990	45.90	15.23	102.00	103.10	9.85	
4	76x76x10mm	4980	43.90	11.34	76.00	76.80	9.75	
5	2- <sup>1</sup> / <sub>2</sub> x2- <sup>1</sup> / <sub>2</sub> x1/4	3400	45.90	7.41	63.60	64.20	6.20	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only Five Samples for Test</b>								

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**UET Lahore, Pakistan.**

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Reference # CED/TFL **34111, 199** (Dr. Waseem Abbas)  
 Reference of the request letter # 3772/AMP/103/MWA/04/44

Dated: 31-10-2019  
 Dated: 10-10-2019

**Weight & Size Test Report** (Page – 4/8)

Date of Test 14-06-2019  
 Gauge length -----  
 Description I-Beam & Channel Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (b <sub>f</sub> )	Flange Thickness (t <sub>f</sub> )	Web Thickness (t <sub>w</sub> )	Remark
	(inch)		(g)	(cm)	(kg/m)	mm	mm	mm	mm	
1	I-Beam (Cross Girder)	18x7	54800	45.70	119.91	460.00	180.00	26.00	13.40	
2	I-Beam (Rail Girder)	12x6	25900	45.90	56.43	307.00	151.60	13.70	8.60	
3	Channel	6x3	9098	45.90	19.82	153.00	78.80	10.00	9.80	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only Three Samples for Test</b>										

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**UET Lahore, Pakistan.**

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Reference # CED/TFL **34111, 199** (Dr. Waseem Abbas)  
Reference of the request letter # 3772/AMP/103/MWA/04/44

Dated: 31-10-2019  
Dated: 10-10-2019

**Weight & Size Test Report** (Page – 5/8)

Date of Test 13-11-2019  
Gauge length -----  
Description Plate Weight and Size Test

Sr. No.	Designation		Weight	Length	Width	Weight per Unit Area	Thickness	Remark
1	Strip	150x38x16mm	4660	46.30	80.20	125.50	15.60	
2	Plate	152x250x12	3498	45.80	77.00	99.19	11.80	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only Two Samples for Test</b>								

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Reference # CED/TFL **34111, 199** (Dr. Waseem Abbas)  
 Reference of the request letter # 3772/AMP/103/MWA/04/50

Dated: 31-10-2019  
 Dated: 26-10-2019

**Tension Test Report** (Page – 6/8)

Date of Test 13-11-2019  
 Gauge length 2 inches  
 Description Steel Structure 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	
											(mm)
1	Angle	89x89x10	19.40x9.75	189.15	6500	10100	337.11	523.82	0.70	35.00	
2		89x89x10	19.15x9.75	186.71	6400	9600	336.26	504.39	0.70	35.00	
3	Bed Plate	1120x64x25	19.95x25.35	505.73	20500	26100	397.65	506.28	1.00	50.00	
4		1120x64x25	19.95x25.35	505.73	20600	26600	399.59	515.98	1.00	50.00	
5	Packing Plate	76x458x20	19.40x19.60	380.24	10500	16600	270.89	428.27	0.90	45.00	
6		76x458x20	18.60x19.60	364.56	9500	16400	255.64	441.31	0.80	40.00	
7	Protection Plate	458x76x3	19.10x3.00	57.30	1880	2840	321.86	486.22	0.70	35.00	
8		458x76x3	19.10x3.00	57.30	1920	2880	328.71	493.07	0.70	35.00	
9	Web Plate	458x75x10	19.30x9.80	189.14	6500	8720	337.13	452.27	0.90	45.00	
10		458x75x10	18.30x9.80	179.34	5500	7600	300.85	415.72	0.90	45.00	
<b>Only Ten Samples for Tensile Test</b>											
<b>Bend Test</b>											

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To,  
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Widening of Aik Moria Pull, Lahore

Reference # CED/TFL **34111, 199** (Dr. Waseem Abbas)  
Reference of the request letter # 3772/AMP/103/MWA/04/50

Dated: 31-10-2019  
Dated: 26-10-2019

**Weight & Size Test Report** (Page – 7/8)

Date of Test 13-11-2019  
Gauge length -----  
Description Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(mm)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	89x89x10	6600	45.80	14.41	90.10	91.20	9.65	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only One Sample for Test</b>								

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To,  
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Widening of Aik Moria Pull, Lahore

Reference # CED/TFL **34111, 199** (Dr. Waseem Abbas)  
Reference of the request letter # 3772/AMP/103/MWA/04/50

Dated: 31-10-2019  
Dated: 26-10-2019

**Weight & Size Test Report** (Page – 8/8)

Date of Test 13-11-2019  
Gauge length -----  
Description Plate Weight and Size Test

Sr. No.	Designation		Weight	Length	Width	Weight per Unit Area	Thickness	Remark
	(mm)		(g)	(cm)	(mm)	(kg/m <sup>2</sup> )	(mm)	
1	Bed Plate	1120x64x25	7400	45.80	78.1	206.88	25.10	
2	Packing Plate	76x458x20	5600	46.00	78.2	155.68	19.55	
3	Protection Plate	458x76x3	820	46.00	76.2	23.39	2.90	
4	Web Plate	458x75x10	2780	45.90	77.3	78.35	9.80	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
<b>Only Three Samples for Test</b>								

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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Const and Allied Facilities at Emps Living Accn, W-Block, DHA Ph-VIII (M/s Wareesha Enterprises)  
Reference # CED/TFL **34167** (Dr. Waseem Abbass) Dated: 12-11-2019  
Reference of the request letter # 408/241/E/Lab/763/06 Dated: 11-11-2019

**Tension Test Report** (Page -1/1)

Date of Test 13-11-2019  
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 <sup>2</sup> )		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	0.376	0.11	0.111	3800	5700	76200	75240	114300	112900	1.00	12.5	Saeed Kasur
2	0.379	3	0.377	0.11	0.112	3900	5700	78200	77090	114300	112700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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To,  
M/S Al-Mustafa Contractor (Pvt) Limited  
Lahore  
(Allied Bank Minerva Centre, Faisalabad)(Ittefaq Steel)

Reference # CED/TFL **34169** (Dr. Waseem Abbass)  
Reference of the request letter # AMC/UETL/502-19

Dated: 12-11-2019  
Dated: 12-11-2019

**Tension Test Report** (Page -1/1)

Date of Test 13-11-2019  
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 <sup>2</sup> )		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	0.364	3	0.369	0.11	0.107	2800	4100	56200	57610	82200	84400	1.50	18.8	
2	0.373	3	0.373	0.11	0.110	3200	4900	64200	64380	98200	98600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,  
M/S Ghulam Rasul Iron Store  
Punjab University Co-Operative Housing Society  
Lahore

Reference # CED/TFL **34170** (Dr. Waseem Abbass)  
Reference of the request letter # Nil

Dated: 12-11-2019  
Dated: 12-11-2019

**Tension Test Report** (Page -1/1)

Date of Test 13-11-2019  
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 <sup>2</sup> )		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	0.368	3	0.371	0.11	0.108	3900	4900	78200	79400	98200	99800	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



**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 Pak Arab Services  
Bahawalpur  
(Const of GS Br Complex for HQ. Central Comd at Khn Gar)

Reference # CED/TFL **34171** (Dr. Waseem Abbass)  
Reference of the request letter # CEA-24/NZ/2019

Dated: 12-11-2019  
Dated: 12-11-2019

**Tension Test Report** (Page -1/1)

Date of Test 13-11-2019  
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 <sup>2</sup> )		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	0.365	3/8	0.369	0.11	0.107	2700	4000	54100	55520	80200	82300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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

To,  
 Sub Divisional Officer  
 Highway Sub Division No. II  
 Gujranwala  
 (Rehabilitation/ Wining of Road from Qila Mian Sing to Dughal Morr Length 9.0 km in District Gujranwala)  
 Reference # CED/TFL **34172** (Dr. Waseem Abbass)      Dated: 12-11-2019  
 Reference of the request letter # 288/G-II      Dated: 31-10-2019

**Tension Test Report** (Page -1/1)

Date of Test                    13-11-2019  
 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 <sup>2</sup> )		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	0.422	3	0.397	0.11	0.124	3700	4500	74200	65740	90200	80000	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
<b>Bend Test</b>														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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

To,  
Project Manager  
Star Engineering  
Lahore Sialkot Motorway (BOT) Project

Reference # CED/TFL **34175** (Dr. M Rizwan Riaz)  
Reference of the request letter # Star Engineering/PM/LSM/2019/01

Dated: 13-11-2019  
Dated: 13-11-2019

**Tension Test Report** (Page – 1/1)

Date of Test 13-11-2019  
Gauge length -----  
Description Chain Link Fence Wire Tensile Test

Sr. No.	Diameter Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	3.10	2.70	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
<b>Only One Sample for Test</b>			

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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