



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
 NESPAK, Lahore
 Fabrication & Installation of Pedestrian Bridge Across Lytton Road at Jain Mandar, Lahore

Reference # CED/TFL **33653, 757** (Dr. Usman Akmal) Dated: 30-07-2019
 Reference of the request letter # 3772/POB-BC/MSW/19/10A Dated: 05-07-2019

Tension Test Report (Page – 1/8)

Date of Test 29-08-2019
 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	I-Beam	450x175x17x21	27.10x13.00	352.30	12000	19700	334.15	548.56	0.80	40.00	
2		450x175x17x21	27.10x13.00	352.30	12000	19600	334.15	545.77	0.80	40.00	
3	I-Beam	150x75x6x8	29.10x5.10	148.41	5200	8000	343.72	528.81	0.60	30.00	
4		150x75x6x8	29.10x5.10	148.41	5300	8000	350.33	528.81	0.70	35.00	
5	I-Beam	350x150x13x7	27.90x12.40	345.96	11300	18900	320.42	535.93	0.70	35.00	
6		350x150x13x7	27.90x12.40	345.96	11200	19000	317.59	538.76	0.80	40.00	
7	Angle Iron	63x63x6	26.90x6.00	161.40	6300	9000	382.92	547.03	0.45	22.50	
8		63x63x6	26.90x6.00	161.40	6200	9000	376.84	547.03	0.45	22.50	
9	Angle Iron	50x50x6	18.10x6.00	108.60	4200	6000	379.39	541.99	0.50	25.00	
10		50x50x6	18.10x6.00	108.60	4200	6000	379.39	541.99	0.50	25.00	
Only Ten Samples for Tensile Test											
Bend Test											

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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Tension Test Report (Page – 2/8)

Date of Test 29-08-2019
 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	M.S Tube	75x75x5	26.00x5.00	130.00	5000	5800	377.31	437.68	0.50	25.00	
2		75x75x5	26.00x5.00	130.00	5000	6300	377.31	475.41	0.45	22.50	
3	M.S Tube	40x40x3	14.40x2.95	42.48	1100	1900	254.03	438.77	0.45	22.50	
4		40x40x3	14.40x2.95	42.48	1200	1900	277.12	438.77	0.50	25.00	
5	M.S Plate	76x458x14	19.40x14.00	271.60	8300	13000	299.79	469.55	0.90	45.00	
6		76x458x14	19.40x14.00	271.60	8300	12900	299.79	465.94	0.80	40.00	
7	M.S Pipe	50x1.5	28.00x1.50	42.00	1200	2300	280.29	537.21	0.45	22.50	
8		50x1.5	28.00x1.50	42.00	1200	2300	280.29	537.21	0.45	22.50	
9	M.S Plate	76x458x10	19.10x10.00	191.00	5700	8700	292.76	446.84	0.90	45.00	
10		76x458x10	19.10x10.00	191.00	5300	8600	272.21	441.71	0.90	45.00	
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Bend Test											

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Tension Test Report (Page – 3/8)

Date of Test 29-08-2019
 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	M.S Pipe	25x1.6	12.10x1.20	14.52	450	600	304.03	405.37	0.50	25.00	
2		25x1.6	12.10x1.20	14.52	440	680	297.27	459.42	0.50	25.00	
3	Chequer Plate	6	19.30x5.70	110.01	3000	5000	267.52	445.87	0.70	35.00	
4		6	19.30x5.70	110.01	3100	5000	276.44	445.87	0.60	30.00	
5	Channel	250x88x8x10	32.70x8.40	274.68	9000	14400	321.43	514.29	0.70	35.00	
6		250x88x8x10	32.70x8.40	274.68	9000	14300	321.43	510.71	0.70	35.00	
7	Ellipes	110x65x5	23.70x5.10	120.87	4500	5200	365.23	422.04	0.70	35.00	
8		110x65x5	23.70x5.10	120.87	4500	5300	365.23	430.16	0.70	35.00	
9	Sq. Pipe	100x100x3	23.90x3.00	71.70	2700	3000	369.41	410.46	0.60	30.00	
10		100x100x3	23.90x3.00	71.70	2700	3200	369.41	437.82	0.60	30.00	
Only Ten Samples for Tensile Test											
Bend Test											

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Reference of the request letter # 3772/POB-BC/MSW/19/10A

Dated: 30-07-2019
Dated: 05-07-2019

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

Date of Test 29-08-2019
Gauge length -----
Description I-Beam & Channel Weight and Size Test

Sr. No.	Designation		Weight (g)	Length (cm)	Weight per Unit Length (kg/m)	Depth (d) mm	Flange Width (b _f) mm	Flange Thickness (t _f) mm	Web Thickness (t _w) mm	Remark
	(mm)									
1	I Beam	450x175x17x21	54000	45.70	118.16	460.00	175.10	22.00	14.00	
2	I Beam	150x75x6x8	7766	40.60	19.13	150.00	76.00	9.00	5.80	
3	I Beam	350x150x13x7	36400	45.70	79.65	354.00	150.40	19.30	13.00	
4	Channel	250x88x8x10	16900	45.40	37.22	250.00	88.10	12.50	9.80	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Test										

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Dated: 30-07-2019
Dated: 05-07-2019

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

Date of Test 29-08-2019
Gauge length -----
Description Angle Iron 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	63x63x6	2961	43.5	6.81	63.10	63.00	6.00	
2	50x50x6	2787	45.70	6.10	50.20	50.40	6.20	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for Test								

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Weight & Size Test Report (Page – 6/8)

Date of Test 29-08-2019
 Gauge length -----
 Description M.S Tube, Ellipse & Sq. Pipe Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	Outer Dimension		Thickness	Remark
						X	Y		
	(mm)		(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	M.S Tube	75x75x5	5428	45.7	11.88	75.70	75.40	5.10	
2	M.S Tube	40x40x3	1994	45.7	4.36	39.70	39.75	3.20	
3	Ellipes	110x65x5	4940	43.6	11.33	106.70	66.80	5.20	
4	Sq. Pipe	100x100x3	4908	40.8	12.03	100.20	101.00	3.10	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only Four Samples for Test									

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Dated: 30-07-2019
Dated: 05-07-2019

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

Date of Test 29-08-2019
Gauge length -----
Description M.S Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Thickness	Remark
	(mm)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	50x1.5	873	34.6	2.52	48.60	45.40	1.60	
2	25x1.6	582	46.9	1.24	25.40	22.50	1.45	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for Test								

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Reference of the request letter # 3772/POB-BC/MSW/19/10A

Dated: 30-07-2019
Dated: 05-07-2019

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

Date of Test 29-08-2019
Gauge length -----
Description Plate Weight and Size Test

Sr. No.	Designation		Weight	Length	Width	Weight per Unit Area	Thickness	Remark
	(mm)							
1	M.S Plate	76x458x14	4045	45.75	7.50	117.89	14.00	
2	M.S Plate	76x458x10	2935	45.5	7.60	84.88	10.10	
3	Chequer Plate	6	1809	45.5	7.60	52.31	6.10	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Three Samples for Test								

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To,
 Cantonment Executive Officer
 Cantonment Board Sargodha
 Reinforcement - Public Works (Construction of 01 x Block of Staff Quarters in Tariqabad)

Reference # CED/TFL **33748** (Dr. Waseem Abbas)
 Reference of the request letter # SC/Const/01/516-A

Dated: 28-08-2019
 Dated: 28-08-2019

Tension Test Report (Page -1/1)

Date of Test 29-08-2019
 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	0.375	3	0.374	0.11	0.110	3300	5200	66200	66050	104200	104100	1.10	13.8	
2	0.380	3	0.377	0.11	0.112	3200	5300	64200	63110	106200	104600	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														

I/C Testing Laboratoires
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To,
 Project Manager
 Superior Group, The Superior College, Lahore
 Superior House
 (Raees Faheem & Associates)(Ittefaq Building Solution)

Reference # CED/TFL **33749** (Dr. Waseem Abbas)
 Reference of the request letter # Naheed Palace/02

Dated: 28-08-2019
 Dated: 27-08-2019

Tension Test Report (Page -1/1)

Date of Test 29-08-2019
 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	0.415	3	0.394	0.11	0.122	4500	6000	90200	81280	120300	108400	0.80	10.0	
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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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