



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
 Dar Engineering
 Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan

Reference # CED/TFL **34635** (Dr. Qasim Khan) Dated: 07-02-2020
 Reference of the request letter # DB-79/DAR/RE/ME/2020/0231 Dated: 07-02-2020

Tension Test Report (Page – 1/5)

Date of Test 17-02-2020
 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	MS Angle	5"x5"x1/2"	27.30x12.20	333.06	10800	17600	318.10	518.39	0.70	35.00	
2		5"x5"x1/2"	27.30x12.20	333.06	11000	17300	324.00	509.56	0.90	45.00	
3	MS Angle	3"x3"x1/4"	27.10x6.10	165.31	6000	9200	356.06	545.96	0.75	37.50	
4		3"x3"x1/4"	27.10x6.10	165.31	6000	9000	356.06	534.09	0.75	37.50	
5	MS I-Beam	8"x4"	27.50x8.30	228.25	7900	12700	339.54	545.84	0.80	40.00	
6		8"x4"	27.50x8.20	225.50	7900	12600	343.68	548.14	0.75	37.50	
7	Structural Pipe	1"x2"x3mm	17.40x3.00	52.20	1600	2300	300.69	432.24	0.50	25.00	
8		1"x2"x3mm	17.40x3.00	52.20	1500	2200	281.90	413.45	0.55	27.50	
9	MS Plate	10mm	19.00x10.00	190.00	5000	9000	258.16	464.68	0.75	37.50	
10		10mm	19.00x10.00	190.00	4900	9100	252.99	469.85	0.80	40.00	
Only Ten Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Dated: 07-02-2020
Dated: 07-02-2020

Weight & Size Test Report (Page – 2/5)

Date of Test 17-02-2020
Gauge length -----
Description MS Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	5x5x1/2	14400	61.20	23.53	129.00	128.0	12.30	
2	3x3x1/4	4300	60.70	7.08	76.00	76.40	6.20	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Two Samples for Test								

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Dated: 07-02-2020
Dated: 07-02-2020

Weight & Size Test Report (Page – 3/5)

Date of Test 17-02-2020
Gauge length -----
Description MS I-Beam Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (br)	Flange Thickness (tr)	Web Thickness (tw)	Remark
	(inch)	(g)	(cm)	(kg/m)	mm	mm	mm	mm	
1	8x4	17200	61.30	28.60	204.00	104.00	10.10	8.30	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only One Sample for Test									

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Dated: 07-02-2020
Dated: 07-02-2020

Weight & Size Test Report (Page – 2/5)

Date of Test 17-02-2020
Gauge length -----
Description Structural Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Outer Dimension		Thickness	Remark
					X	Y		
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	1"x2"x3mm	2028	61.50	3.30	50.20	25.30	3.00	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

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Reference of the request letter # DB-79/DAR/RE/ME/2020/0231

Dated: 07-02-2020
Dated: 07-02-2020

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

Date of Test 17-02-2020
Gauge length -----
Description M.S Plate Weight and Size Test

Sr. No.	Designation	Weight	Length	Width (b)	Weight per Unit Area	Thickness	Remark
	(mm)	(g)	(cm)	(cm)	(kg/m ²)	(mm)	
1	10	3880	61.50	78.40	8.05	10.00	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	
Only One Sample for Test							

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To,
 Assistant Resident Engineer
 ES Consultants Pvt Ltd.
 Consultancy Services for The Project Technical Assistance, Design and Supervisory Services to
 PMIU and School Council/Licensees for the Construction of Additional Class Rooms in Selected
 Schools of Punjab (Package-2)(School :- GGP School Ladi, District Kasur, Tehsil
 Chunian)(EMIS :- 35110421)
 Reference # CED/TFL **34679** (Dr. Qasim Khan) Dated: 14-02-2020
 Reference of the request letter # ESC/PMIU/P2/0042 Dated: 14-02-2020

Tension Test Report (Page -1/1)

Date of Test 17-02-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3	0.370	0.11	0.108	2300	3200	46100	47140	64200	65600	1.80	22.5	
2	0.369	3	0.372	0.11	0.108	2350	3300	47100	47750	66200	67100	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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To,
 Project Engineer
 MA Engineering Services
 (ENFRASHARE)

Reference # CED/TFL **34681** (Dr. Qasim Khan)
 Reference of the request letter # MA/UET/LHR/002

Dated: 14-02-2020
 Dated: 13-02-2020

Tension Test Report (Page -1/1)

Date of Test 17-02-2020
 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	0.370	10	9.46	0.12	0.109	3100	4900	56952	62760	90021	99200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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