



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

To,
 Dy. Director (Maintenance)
 NHA Lahore

Reference # CED/TFL **36043** (Dr. M Rizwan Riaz)

Dated: 04-02-2021

Reference of the request letter # DD(M)/NHA/LHR/BC-PN-18-05-05/20/1063 Dated: 17-12-2020

Tension Test Report (Page – 1/3)

Date of Test 19-02-2021

Gauge length 2 inches

Description Steel Structure Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)										
1	I Beam	600x200	27.00x10.30	278.10	9700	13800	342.17	486.80	0.70	35.00	
2			27.00x10.50	283.50	10100	13900	349.49	480.98	0.70	35.00	
3	H Beam	250x250	27.20x13.10	356.32	12400	17200	341.39	473.54	0.90	45.00	
4			27.20x13.30	361.76	13000	17800	352.53	482.69	0.80	40.00	
5	Channel	200x75	27.20x7.80	212.16	8000	12200	369.91	564.11	0.70	35.00	
6			27.20x7.70	209.44	7500	11900	351.29	557.39	0.70	35.00	
7	Angle	100x100	27.30x12.50	341.25	11100	17900	319.09	514.58	0.80	40.00	
8			27.40x12.60	345.24	11200	18000	318.25	511.47	0.70	35.00	
9	H Beam	150x150	27.30x8.70	237.51	6200	10100	256.08	417.17	0.80	40.00	
10			27.20x9.30	252.96	6700	10700	259.83	414.95	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: 04-02-2021

Reference of the request letter # DD(M)/NHA/LHR/BC-PN-18-05-05/20/1063 Dated: 17-12-2020

Weight & Size Test Report (Page – 2/3)

Date of Test 18-01-2019

Description Girder Weight and Size Test

Sr. No.	Designation		Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (b _f)	Flange Thickness (t _f)	Web Thickness (t _w)	Remark
	(mm)	(g)								
1	H Beam	250x250	42550	62.30	682.99	253.00	248.0 0	13.70	9.40	
2	I Beam	600x200	61400	61.50	998.37	603.00	201.00	17.10	10.50	
3	Channel	200x75	14250	61.80	230.58	201.00	75.00	11.50	8.00	
4	H Beam	150x150	17200	61.10	281.51	151.00	152.00	9.30	7.00	
-	-		-	-	-	-	-	-	-	
-	-		-	-	-	-	-	-	-	
-	-		-	-	-	-	-	-	-	
-	-		-	-	-	-	-	-	-	
Only Four Samples for Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Dy. Director (Maintenance)
NHA Lahore

Reference # CED/TFL **36043** (Dr. M Rizwan Riaz)

Dated: 04-02-2021

Reference of the request letter # DD(M)/NHA/LHR/BC-PN-18-05-05/20/1063 Dated: 17-12-2020

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

Date of Test 24-08-2020

Description Angle Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Wall Thickness	Remark
	(mm)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	100x100	11650	61.70	188.82	102.00	103.00	12.50	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

I/C Testing Laboratories
UET Lahore, Pakistan.

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Ref: CED/TFL/02/36075

Dated: 11-02-2021

Dated of Test: 19-02-2021

To
Deputy Director
Punjab Housing & Town Planning Agency
Sub - Region, Lahore
(ADS Pattoki)

Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]

Reference to your letter No. 192, dated 11.02.2021 on the subject cited above. Two R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	5.76	5.38	0.86	0.68	1.12	1000	1200	605	727
2	12	5.79	5.37	1.20	1.00	1.20	1000	1300	409	532

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Principal Architect
 Z.H Kazmi & Associates
 Expansion Works at Allied Bank Limited Warehouse 18- Hazari Jhang

Reference # CED/TFL **36105** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 18-02-2021
 Dated: 18-02-2021

Tension Test Report (Page -1/1)

Date of Test 19-02-2021
 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	0.372	3	0.373	0.11	0.109	3300	5000	66200	66510	100200	100800	1.20	15.0	
2	0.371	3	0.372	0.11	0.109	3300	5000	66200	66770	100200	101200	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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