



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
AR Enterprise
Alfatah Emal Project

Reference # CED/TFL **2864** (Dr. Usman Akmal)

Dated: 01-03-2023

Reference of the request letter # AEM/ST/UET/14/03

Dated: 01-03-2023

Tension Test Report (Page -1/1)

Date of Test 02-03-2023

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	0.366	3	0.370	0.11	0.108	2900	4300	58200	59450	86200	88200	1.50	18.8	Batala Steel	
2	0.369	3	0.372	0.11	0.109	2800	4350	56200	56840	87200	88300	1.70	21.3		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Note: only two samples for tensile and one sample for bend test															
Bend Test															
#3 Bar Bend Test Through 180° is Satisfactory															

Witness by Javaid Iqbal (QS. Alfatah) & Saqib Hussain (Quality Head Premium Batala Steel)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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Ref: CED/TFL/03/2865

Dated: 01-03-2023

Dated of Test: 02-03-2023

To

Asst Dir Dev
Defence Housing Authority
Gujranwala
Sector L

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page -1/2)

Reference to your letter No. 111/15/AD/RS/Lab/Sec L/163, dated 20.02.2023 on the subject cited above. Three 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	15	7.75	7.26	19.29	14.72	2.29	15400	18600	3811	4603
2	18	7.78	7.32	22.91	17.96	2.48	10400	15500	2092	3117
3	21	7.71	7.24	26.38	20.69	2.85	13780	18010	2433	3180

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/03/2865

Dated: 01-03-2023

Dated of Test: 02-03-2023

To

Asst Dir Dev
Defence Housing Authority
Gujranwala
Sector G

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]** (Page -2/2)

Reference to your letter No. 111/15/AD/RS/Pkg-2B/1297, dated 16.02.2023 on the subject cited above. Three 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	18	7.80	7.35	22.76	17.45	2.65	10500	15600	2165	3216
2	24	7.81	7.42	29.61	23.25	3.18	12730	20130	1951	3086
3	30	7.98	7.64	36.54	29.24	3.65	21190	31770	2508	3760

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

GM - Material & Procurment
MARS Technologies
Descon Engineering

Reference # CED/TFL **2866** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 01-03-2023
Dated: 28-02-2023

Tension Test Report (Page – 1/1)

Date of Test 02-03-2023
Gauge length 2 inches
Description Flat Bar 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)	(mm)									
1	Flat Bar	32x5	20.40x5.00	102.00	-----	9000	-----	866	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Quality Manager
 Premium Batala Steel

Reference # CED/TFL **2880 (Dr. Kashif)**
 Reference of the request letter # Nil

Dated: 03-03-2023
 Dated: 03-03-2023

Tension Test Report (Page -1/1)

Date of Test 03-03-2023
 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	0.371	3	0.372	0.11	0.109	3600	4800	72200	72850	96200	97200	1.00	12.5	Premium Batala Steel
2	0.364	3	0.369	0.11	0.107	4300	5300	86200	88640	106200	109300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile														

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UET Lahore, Pakistan.

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