



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

To,

Assistant Engineer/Bridges
Pakistan Railways
Multan

(Widening / Conversion of Existing 2x36' Dia RCC Pipe Bridge No. 39-B in 1x44' (Over All) Semi Through Girder Bridge / Pile Foundation at km. 60/10-11 (at R.D 48+843) for Construction Seepage Drain T.S.L-2 Parallel to T.S Link Canal between Jarala - Shorkot Cantt Station on KWL-SKO Section.)

Reference # CED/TFL **4993** (Dr. Usman Akmal)

Dated: 29-04-2024

Reference of the request letter # 55-W/1/M(B. No. 39-B)

Dated: 27-04-2024

Tension Test Report (Page # 1/1)

Date of Test 30-04-2024

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 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	4.183	1 ¹ / ₄	1.251	1.27	1.230	37800	54000	65600	67760	93800	96800	2.00	25.0	
2	4.182	1 ¹ / ₄	1.251	1.27	1.229	37800	54400	65600	67790	94500	97600	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,
Dy Dir Infra
Defence Housing Authority, Gujranwala
"Sector L"

Reference # CED/TFL **5003** (Dr. Ali Ahmed)
Reference of the request letter # 111/15/DD/RS/Lab/Sec L/911

Dated: 29-04-2024
Dated: 27-04-2024

Tension Test Report (Page -1/1)

Date of Test 30-04-2024
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	4.230	10	1.258	1.27	1.243	40200	54800	69800	71260	95200	97200	1.50	18.8	SJ Steel	
2	4.196	10	1.253	1.27	1.233	48000	59600	83400	85780	103500	106600	1.20	15.0		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Note: only two samples for tensile and one sample for bend test															
Bend Test															
#10 Bar Bend Test Through 180° is Satisfactory															

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