



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

To,
Planning Engineer
DSG Energy, Lahore.

Reference # CED/TFL **5452** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 05-08-2024
Dated: 05-08-2024

Tension Test Report (Page – 1/1)

Date of Test 12-08-2024
Gauge length 2 inches
Description Aluminum Structure 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)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	A-1	26.00x1.00	26.00	440	640	166.02	241.48	0.35	17.50	
2	A-2	26.00x2.10	54.60	670	920	120.38	165.30	0.35	17.50	
3	A-3	25.70x1.20	30.84	570	640	181.31	203.58	0.10	5.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Three Samples for Tensile Test										
Bend Test										

To,
Assistant Manager
Allied Engineering & Services (Private) Ltd.

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Project of Rice /Corn Warehouse of 2000 Ton Capacity Situated at Main Okara Depalpur Road, District Okara.

Reference # CED/TFL **5490** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 09-08-2024
 Dated: 09-08-2024

Tension Test Report (Page -1/1)

Date of Test 12-08-2024
 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	0.371	3	0.372	0.11	0.109	4100	4900	82200	82980	98200	99200	0.90	11.3	Afco Steel	
2	0.369	3	0.372	0.11	0.108	3700	4700	74200	75230	94200	95600	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
UET Lahore, Pakistan.

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To,

Garrison Engineer (Army)-1
 Sialkot Cantonment
 (Const of 1 x 150 Men CH/DH ex 16 NLI Regt, HQ 15 Div at Slk Cantt.)

Reference # CED/TFL **5491** (Dr. M Rizwan Riaz)
 Reference of the request letter # 6002/36/E-6

Dated: 09-08-2024
 Dated: 27-06-2024

Tension Test Report (Page -1/1)

Date of Test 12-08-2024
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.375	3/8	0.375	0.11	0.110	3300	4900	66200	65990	98200	98000	1.30	16.3	Aziz Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Garrison Engineer (Army)-1
 Sialkot Cantonment
 (Upgradation of Gynae Ward, OT Complex Waiting Area & Misc Work at CMH Slk Cantt.)

Reference # CED/TFL **5492** (Dr. M Rizwan Riaz)
 Reference of the request letter # 6002/37/E-6

Dated: 09-08-2024
 Dated: 29-07-2024

Tension Test Report (Page -1/1)

Date of Test 12-08-2024
 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	0.377	3/8	0.376	0.11	0.111	3500	5100	70200	69610	102200	101500	1.20	15.0	SJ Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Director P & D
King Edward Medical University,
Lahore
(Construction of Bio Safety Lab Level III KEMU, Lahore)

Reference # CED/TFL **5494** (Dr. M Rizwan Riaz)
Reference of the request letter # P&D/KEMU/632-634

Dated: 09-08-2024
Dated: 09-08-2024

Tension Test Report (Page -1/1)

Date of Test 12-08-2024
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	0.368	3	0.371	0.11	0.108	3300	4900	66200	67270	98200	99900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
Sub Divisional Officer
Buildings Sub Division C.M Sectt;
Lahore
(Special Repair to The Offices of GOR-I, Lahore)

Reference # CED/TFL **5495** (Dr. M Rizwan Riaz)
Reference of the request letter # SDO/CMS/937

Dated: 09-08-2024
Dated: 04-07-2024

Tension Test Report (Page -1/1)

Date of Test 12-08-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.381	3/8	0.377	0.11	0.112	4100	5300	82200	80790	106200	104500	1.30	16.3	
2	0.380	3/8	0.377	0.11	0.112	3900	5100	78200	76980	102200	100700	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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To,

Resident Engineer
 NESPAK
 PRSWSSP, Taunsa
 Punjab Rural Municipal Services Company
 Punjab Rural Sustainable Water Supply and Sanitation Project (PRSWSSP). Tehsil
 Taunsa (Package-II & V).

Reference # CED/TFL **5496** (Dr. M Rizwan Riaz)

Dated: 09-08-2024

Reference of the request letter # NESPAK/PRSWSSP/TAUNSA/ME/307 Dated: 23-07-2024

Tension Test Report (Page -1/1)

Date of Test 12-08-2024

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	0.373	3	0.374	0.11	0.110	3300	4900	66200	66360	98200	98600	1.30	16.3	Sheikho Steel
2	0.376	3	0.375	0.11	0.111	3400	4900	68200	67790	98200	97700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
 M/s Prime Steel Re-Rolling Mills
 Sheikhpura

Reference # CED/TFL **5501** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 12-08-2024
 Dated: 12-08-2024

Tension Test Report (Page -1/1)

Date of Test 12-08-2024
 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	0.385	3	0.380	0.11	0.113	3600	5300	72200	70110	106200	103300	1.00	12.5	Prime Steel	
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Note: only one sample 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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