



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

To,

Divisional Forest Officer
Kasur Forest Division
Changa Manga
(Construction of Boundary Wall at Changa Manga Irrigation Platation.)

Reference # CED/TFL **2667** (Dr. Usman Akmal)
Reference of the request letter # 526/AC

Dated: 23-01-2023
Dated: 23-12-2022

Weight & Size Test Report (Page – 1/1)

Date of Test 27-01-2023
Description Razor cut wire Size Test

Sr. No.	Designation	Diameter of Wire	Diameter of Wire with Razor Cover	Razor Size		Remark
				X	Y	
	-----	(mm)	(mm)	(mm)	(mm)	
1	Razor cut wire	3.20	4.10	23.10	14.10	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
Only One Sample for Test						

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

Reference # CED/TFL **2673** (Dr. Usman Akmal)
 Reference of the request letter # 111/15/AD/RS/Sec L/35

Dated: 24-01-2023
 Dated: 24-01-2023

Tension Test Report (Page -1/1)

Date of Test 27-01-2023
 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	0.370	3	0.372	0.11	0.109	3100	4700	62200	62810	94200	95300	1.30	16.3	Kamran Steel
2	0.373	3	0.374	0.11	0.110	3300	4900	66200	66310	98200	98500	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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To,

Resident Engineer
 NESPAK
 Bridge Over U.J.C. Canal & Bhimber Nullah on Gujrat Bypass (N-5) – Industrial Area-II
 District Gujrat.

Reference # CED/TFL **2679** (Dr. Usman Akmal)
 Reference of the request letter # 103/GF/ML/Lab/03

Dated: 24-01-2023
 Dated: 22-01-2023

Tension Test Report (Page -1/1)

Date of Test 27-01-2023
 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	0.387	3	0.381	0.11	0.114	3800	5400	76200	73650	108200	104700	1.30	16.3	Ittehad Steel
2	0.390	3	0.382	0.11	0.115	3800	5400	76200	73110	108200	103900	1.30	16.3	
3	4.208	10	1.255	1.27	1.237	39600	52400	68800	70570	91000	93400	1.40	17.5	
4	4.205	10	1.254	1.27	1.236	41600	52400	72200	74190	91000	93500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

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To,
 Bashir Ahmed

Reference # CED/TFL **2680** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 25-01-2023
 Dated: 24-01-2023

Tension Test Report (Page -1/1)

Date of Test 27-01-2023
 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	0.363	3	0.369	0.11	0.107	3100	4800	62200	63970	96200	99100	1.10	13.8	
2	0.362	3	0.368	0.11	0.107	3100	4800	62200	64130	96200	99300	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 Laboratories
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To,
 M/S M. Saleem Construction Company
 Sheikhpura
 (Extension (Office Block) Garment Unit.)

Reference # CED/TFL **2681** (Dr. Usman Akmal)
 Reference of the request letter # Steel Test

Dated: 25-01-2023
 Dated: 23-01-2023

Tension Test Report (Page -1/1)

Date of Test 27-01-2023
 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	0.387	3	0.380	0.11	0.114	3500	4800	70200	67860	96200	93100	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,

Campus Engineer
 GC University, Lahore

“Construction of New Girls Hostel and Servant Quarter at Main Campus GCU Lahore”.

Reference # CED/TFL **2684** (Dr. Usman Akmal)

Dated: 25-01-2023

Reference of the request letter # GCU/Engr/877/W.O

Dated: 23-01-2023

Tension Test Report (Page -1/1)

Date of Test 27-01-2023

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	0.370	3/8	0.372	0.11	0.109	-----	5300	-----	-----	106200	107600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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To,

Sub Divisional Officer
 Highway Sub Division
 Renala Khurd

(Rehabilitation of Road from Renala Khurd to Hujra Chowk via Shergarh (Length = 27.10 km) Tehsil Renala Khurd / Depalpur District Okara.)

Reference # CED/TFL **2686** (Dr. Usman Akmal)
 Reference of the request letter # 260/RK

Dated: 25-01-2023
 Dated: 11-01-2023

Tension Test Report (Page -1/1)

Date of Test 27-01-2023
 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	0.377	3	0.375	0.11	0.111	3700	4900	74200	73670	98200	97600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one 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 Core Construction Service
Sambrial

Reference # CED/TFL **2695** (Dr. Asad Ali)
Reference of the request letter # Nil

Dated: 27-01-2023
Dated: 27-01-2023

Tension Test Report (Page -1/1)

Date of Test 27-01-2023
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	0.373	0.11	0.109	3210	4740	64400	64800	95000	95700	1.20	15.0	
2	0.371	3	0.372	0.11	0.109	3210	4740	64400	64930	95000	95900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
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To,
Resident Engineer,
Orbit Housing
The Spring Apartment Homes

Reference # CED/TFL **2696** (Dr. Rizwan Azam)
Reference of the request letter# NIL

Dated: 27-01-2023
Dated: 27-01-2023

Tension Test Report (Page -1/1)

Date of Test 27-01-2023
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	0.356	3	0.365	0.11	0.105	3380	4540	67800	71170	91000	95600	1.50	18.8	
2	0.357	3	0.366	0.11	0.105	3410	4590	68400	71540	92000	96300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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