



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

To,
Material Engineer
Defence Housing Authority Multan
Construction of Monuments – Blue Pottery (M/s Pillar & Sons)

Reference # CED/TFL **1559** (Dr. Dr. Asif Hameed)
Reference of the request letter # 701/92/Plans/DHA

Dated: 17-06-2022
Dated: 10-06-2022

Tension Test Report (Page – 1/1)

Date of Test 23-06-2022
Gauge length 2 inches
Description MS Pipe Steel Strip Tensile and Bend Test as per ASTM A 53

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)									
1	MS Pipe	4	24.30x3.80	92.34	4100	4500	436	478	0.60	30.00	
2	MS Pipe	6	24.60x6.40	157.44	7200	7500	449	467	0.30	15.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and Two Samples for Bend Test											
Bend Test											
Strip Taken from MS Pipe 4mm Bend Test Through 180° is Satisfactory											
Strip Taken from MS Pipe 6mm Bend Test Through 180° is Satisfactory											

To,

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
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Procurement Manager
 Premier Developers & Builders
 Lyallpur Galleria-II near Four Season Colony Samundri Road, Faisalabad

Reference # CED/TFL **1582** (Dr. Usman Akmal)
 Reference of the request letter # LG-II/019

Dated: 22-06-2022
 Dated: 20-06-2022

Tension Test Report (Page -1/1)

Date of Test 23-06-2022
 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	0.369	3	0.372	0.11	0.108	3820	4960	76600	77630	99400	100800	1.30	16.3	FF 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 Laboratories
UET Lahore, Pakistan.

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To,
 Divisional Forest Officer
 Kasur Forest Division
 At Changa Manga
 (Construction of Boundary wall at Changa Manga Irrigated Plantation)

Reference # CED/TFL **1583** (Dr. Usman Akmal)
 Reference of the request letter # 809/AC

Dated: 22-06-2022
 Dated: 16-05-2022

Tension Test Report (Page -1/1)

Date of Test 23-06-2022
 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	0.252	1/4	0.307	----	0.074	2800	3520	----	83350	----	104800	1.00	12.5	
2	0.375	3/8	0.375	0.11	0.110	3310	4860	66400	66160	97400	97200	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Project Engineer
 Defence Housing Authority,
 Gujranwala

Reference # CED/TFL **1585** (Dr. Usman Akmal)
 Reference of the request letter # 111/15/PE/RS/Pkg-2A/425

Dated: 22-06-2022
 Dated: 20-06-2022

Tension Test Report (Page -1/1)

Date of Test 23-06-2022
 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	0.374	3	0.374	0.11	0.110	3680	5220	73800	73690	104600	104600	1.30	16.3	FF Steel
2	0.354	3	0.364	0.11	0.104	3330	4690	66800	70630	94000	99500	1.20	15.0	
3	4.251	10	1.261	1.27	1.249	38600	54400	67000	68100	94500	96000	1.70	21.3	
4	4.264	10	1.263	1.27	1.253	30000	41000	52100	52770	71200	72200	1.90	23.8	
5	5.245	11	1.401	1.56	1.542	52000	71400	73500	74350	100900	102100	1.40	17.5	
6	5.268	11	1.404	1.56	1.548	51000	71200	72100	72600	100600	101400	1.70	21.3	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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To,
M/S Nimbus Engineering Corporation (Pvt) Ltd
Lahore

Reference # CED/TFL **1586** (Dr. Safer Abbass)
Reference of the request letter # NECL/282

Dated: 22-06-2022

Dated: 21-06-2022

Tension Test Report (Page – 1/2)

Date of Test 23-06-2022

Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	438	8200	80.44	9200	90.25	<3.50 Not ok	xx
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample for Test									

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To,
M/S Husnain Kareemain
Lahore
(Beacon House School Sargodha Campus)

Reference # CED/TFL **1587** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 22-06-2022
Dated: 22-06-2022

Tension Test Report (Page -1/1)

Date of Test 23-06-2022
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	3620	5370	72600	76280	107600	113200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,
 Sr. Project Manager
 Ravians Construction Services
 Construction of Fantasy Plaza, Dream Garden, Lahore

Reference # CED/TFL **1589** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 22-06-2022
 Dated: 22-06-2022

Tension Test Report (Page -1/1)

Date of Test 23-06-2022
 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	3590	5070	72000	69480	101600	98200	1.20	15.0	
2	0.392	3	0.383	0.11	0.115	3590	5170	72000	68700	103600	99000	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														

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UET Lahore, Pakistan.

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To,
Ittefaq Building Solutions Pvt. Ltd
Lahore

Reference # CED/TFL **1590** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 22-06-2022
Dated: 22-06-2022

Tension Test Report (Page -1/1)

Date of Test 23-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa)		Ultimate Stress (MPa)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.599	10	9.85	79.00	76.27	3520	4810	437	453	597	619	1.3	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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To,
 Resident Engineer
 NESPAK
 Construction of Service More Flyover to Connect with Industrial Area-II Gujrat Link Road in
 District Gujrat

Reference # CED/TFL **1592** (Dr. Usman Akmal)
 Reference of the request letter # 103/GF/ML/Lab/07

Dated: 22-06-2022
 Dated: 14-06-2022

Tension Test Report (Page -1/1)

Date of Test 23-06-2022
 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	4.252	10	1.261	1.27	1.250	38800	51200	67400	68430	88900	90300	1.70	21.3	
2	4.282	10	1.266	1.27	1.259	30200	39200	52500	52890	68100	68700	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Material Engineer
 TGC Builders (Private) Limited
 The Grand Central Mall, TGC, Faisalabad

Reference # CED/TFL **1593** (Dr. Usman Akmal)
 Reference of the request letter # ME/TGC/Faisalabad

Dated: 22-06-2022
 Dated: 22-06-2022

Tension Test Report (Page -1/1)

Date of Test 23-06-2022
 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	0.374	3	0.374	0.11	0.110	3260	4690	65400	65400	94000	94100	1.20	15.0	
2	0.386	3	0.380	0.11	0.114	3380	4860	67800	65620	97400	94400	1.00	12.5	
3	4.253	10	1.262	1.27	1.250	36600	48800	63600	64530	84700	86100	1.60	20.0	
4	4.224	10	1.257	1.27	1.241	38800	50400	67400	68890	87500	89500	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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														

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Resident Engineer
 G3 Engineering Consultants (Pvt) Ltd
 (Construction of DHA Newlife Residency Apartments at 273/1 Q Block Phase-II DHA, Lahore)

Reference # CED/TFL **1599** (Dr. Usman Akmal)
 Reference of the request letter # G3/DHA-NLD/RE/071

Dated: 23-06-2022
 Dated: 22-06-2022

Tension Test Report (Page -1/1)

Date of Test 23-06-2022
 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	0.392	3	0.383	0.11	0.115	3920	5220	78600	74890	104600	99800	1.30	16.3	Kamran Steel
2	0.372	3	0.373	0.11	0.109	3570	4910	71600	72040	98400	99100	1.10	13.8	
3	0.373	3	0.374	0.11	0.110	3590	4960	72000	72110	99400	99700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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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