



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

Ref: CED/TFL/10/37233

Dated: 20-10-2021

Dated of Test: 25-10-2021

To
Chief Resident Engineer
MM Pakistan (Pvt) Ltd
Construction of Main Canal and Distribution System (Earth Work, Structures and
Log of Main Canal & Distributaries) from RD 1286+000 to RD 1322+000

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]**

Reference to your letter No. KCPCRE/KC-6B(\$R)/UET/36, dated 16.10.2021 on the subject cited above. Two R.C.C. Pipe as received by us has 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)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.72	6.99	0.91	0.71	1.21	4100	9500	1820	4217
2	12	7.66	6.93	1.32	0.97	2.11	9000	15000	2953	4921

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,
 Sub Divisional Officer
 PH Engg: Sub Division
 Layyah
 (Provision of Tuff Tile, Sewerage and Drain in Ward No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 & 12 of Chowk Azam City.)
 Reference # CED/TFL **37236** (Dr. Rizwan Azam) Dated: 21-10-2021
 Reference of the request letter # 417 Dated: 08-09-2021

Tension Test Report (Page -1/1)

Date of Test 25-10-2021
 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	0.095	1/16	0.189	-----	0.028	1000	1200	-----	78660	-----	94400	0.80	10.0	
2	0.108	3/16	0.201	-----	0.032	1500	1700	-----	103730	-----	117600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
1/16" Dia Bar Bend Test Through 180° is Satisfactory														
3/16" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,
 Sr. QS
 Manzoor Ahmed Khan
 "E-Tachi Mobiles Raiwind"

Reference # CED/TFL 37237 (Dr. Rizwan Azam)
 Reference of the request letter # TCC/UET/316

Dated: 21-10-2021
 Dated: 21-10-2021

Tension Test Report (Page -1/1)

Date of Test 25-10-2021
 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	0.367	3/8	0.371	0.11	0.108	2700	4000	54100	55200	80200	81800	1.40	17.5	
2	0.358	3/8	0.366	0.11	0.105	2600	3900	52100	54480	78200	81800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Deputy Director (QCD)
 WASA, LDA, Lahore
 (M/s New Shalimar RCC Pipe Industry.)

Reference # CED/TFL **37238** (Dr. Rizwan Azam)
 Reference of the request letter # QCD/1450-51

Dated: 21-10-2021
 Dated: 15-10-2021

Tension Test Report (Page -1/1)

Date of Test 25-10-2021
 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	0.172	1/4	0.254	-----	0.051	1360	1760	-----	59280	-----	76800	1.40	17.5	
2	0.543	3/8	0.451	0.11	0.160	4300	6700	86200	59420	134300	92600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
1/4" Dia Bar Bend Test Through 180° is Satisfactory														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

To,
 Planning & Coordination Engineer
 Construct
 Mikail Khan (House No. 177, Scotch Corner, Upper Mall, Lahore)

Reference # CED/TFL **37239** (Dr. Rizwan Azam)
 Reference of the request letter # Nil

Dated: 21-10-2021
 Dated: 21-10-2021

Tension Test Report (Page -1/1)

Date of Test 25-10-2021
 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	0.353	3	0.364	0.11	0.104	3000	4500	60200	63640	90200	95500	1.40	17.5	
2	0.363	3	0.369	0.11	0.107	3000	4600	60200	61990	92200	95100	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S City Survey & Engineering Consultants
Lahore

Reference # CED/TFL **37241** (Dr. Rizwan Azam)
Reference of the request letter # GVA/RE/001/21

Dated: 21-10-2021
Dated: 21-10-2021

Tension Test Report (Page -1/1)

Date of Test 25-10-2021
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	0.361	3/8	0.367	0.11	0.106	3900	4900	78200	81040	98200	101900	1.10	13.8	
2	0.368	3/8	0.371	0.11	0.108	4000	4800	80200	81480	96200	97800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

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

To,
 Proprietor
 Khokhar & Co.
 Fuzing Shed Hafizabad

Reference # CED/TFL 37242 (Dr. Rizwan Azam)
 Reference of the request letter # KC/HAF/77

Dated: 21-10-2021
 Dated: 14-10-2021

Tension Test Report (Page -1/1)

Date of Test 25-10-2021
 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	0.376	3	0.375	0.11	0.111	3800	4900	76200	75770	98200	97800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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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,
 Bahawalpur

Reference # CED/TFL **37243** (Dr. Rizwan Azam)
 Reference of the request letter # 560/QC/MTL/DHAB

Dated: 22-10-2021
 Dated: 22-10-2021

Tension Test Report (Page -1/1)

Date of Test 25-10-2021
 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	0.410	3	0.392	0.11	0.120	3500	5200	70200	64090	104200	95300	1.30	16.3	Ittefaq 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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Construction Manager
 Deevar Developers Pvt. Ltd
 Construction of Zameen Opal, Plot No. 16, Sector-A, Land Breeze Housing Society, Raiwind Road, Lahore
 Reference # CED/TFL 37244 (Dr. Asad Ali) Dated: 22-10-2021
 Reference of the request letter # ZD/ZO/L/029 Dated: 22-10-2021

Tension Test Report (Page -1/1)

Date of Test 25-10-2021
 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	0.373	0.11	0.110	3540	5070	71000	71250	101600	102100	1.00	12.5	
2	0.368	3	0.371	0.11	0.108	3210	4840	64400	65460	97000	98700	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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,
 Asst. Manager Coordination
 Izhar Construction (Pvt) Ltd
 Ocean Ceramics, Faisalabad

Reference # CED/TFL **37245** (Dr. Rizwan Azam)
 Reference of the request letter # ICPL/Const-OC/21/0102

Dated: 22-10-2021
 Dated: 22-10-2021

Tension Test Report (Page -1/1)

Date of Test 25-10-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.382	10	9.61	0.12	0.112	4400	5000	80835	86340	91858	98200	0.70	8.8	
2	0.387	10	9.66	0.12	0.114	3800	4600	69812	73720	84510	89300	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples 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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
 Material Engineer
 Defence Housing Authority,
 Bahawalpur

Reference # CED/TFL **37246** (Dr. Rizwan Azam)
 Reference of the request letter # 560/QC/MTL/DHAB

Dated: 22-10-2021
 Dated: 22-10-2021

Tension Test Report (Page -1/1)

Date of Test 25-10-2021
 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	0.376	3	0.375	0.11	0.111	3500	5000	70200	69730	100200	99700	1.40	17.5	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 Laboratoires
UET Lahore, Pakistan.

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

To,
 Sub Divisional Officer
 Buildings Sub Division No. 6
 Lahore
 (Construction of B.S Block, Multipurpose Hall, Basket Ball Court and Privision of Missing Facilities in Government Graduate College Sabzazar Lahore.)

Reference # CED/TFL **37247** (Dr. Rizwan Azam)
 Reference of the request letter # 390-91/Sd-6th

Dated: 22-10-2021
 Dated: 21-10-2021

Tension Test Report (Page -1/1)

Date of Test 25-10-2021
 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	0.354	3	0.364	0.11	0.104	2900	3800	58200	61470	76200	80600	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
UET Lahore, Pakistan.

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To,
M/S Style Textile (Pvt) Ltd
Lahore
(Style SAP C1 Project) ((Amreli Steel) Kraftcon)

Reference # CED/TFL **37249** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 25-10-2021
Dated: 13-10-2021

Tension Test Report (Page -1/7)

Date of Test 25-10-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.416	10	10.02	0.12	0.122	4300	5100	78998	77500	93696	92000	1.00	12.5	
2	0.418	10	10.04	0.12	0.123	4400	5100	80835	78960	93696	91600	1.00	12.5	
3	0.413	10	9.99	0.12	0.122	4200	5000	77161	76190	91858	90700	1.10	13.8	
4	0.416	10	10.02	0.12	0.122	4400	5000	80835	79310	91858	90200	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

To,
M/S Style Textile (Pvt) Ltd
Lahore
(Style SAP C1 Project) ((Amreli Steel) Kraftcon)

Reference # CED/TFL **37249** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 25-10-2021
Dated: 11-10-2021

Tension Test Report (Page -2/7)

Date of Test 25-10-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.417	10	10.04	0.12	0.123	4100	5000	75324	73660	91858	89900	1.20	15.0	
2	0.412	10	9.97	0.12	0.121	4200	5100	77161	76430	93696	92900	1.30	16.3	
3	0.417	10	10.04	0.12	0.123	4200	5000	77161	75460	91858	89900	1.00	12.5	
4	0.413	10	9.98	0.12	0.121	4200	5100	77161	76280	93696	92700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

To,
M/S Style Textile (Pvt) Ltd
Lahore
(Style SAP C1 Project) ((Agha Steel) Kraftcon)

Reference # CED/TFL **37249** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 25-10-2021
Dated: 21-10-2021

Tension Test Report (Page -3/7)

Date of Test 25-10-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.411	10	9.96	0.12	0.121	4600	5700	84510	83880	104719	104000	1.00	12.5	
2	0.408	10	9.93	0.12	0.120	4800	5900	88184	88200	108393	108500	0.90	11.3	
3	0.407	10	9.91	0.12	0.120	4800	5900	88184	88490	108393	108800	0.90	11.3	
4	0.412	10	9.97	0.12	0.121	4700	5800	86347	85590	106556	105700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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

To,
M/S Style Textile (Pvt) Ltd
Lahore
(Style SAP PH3 Project) ((Naveena Steel) ASE)

Reference # CED/TFL **37249** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 25-10-2021
Dated: 20-10-2021

Tension Test Report (Page -4/7)

Date of Test 25-10-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.414	10	9.99	0.12	0.122	4000	5100	73487	72520	93696	92500	1.00	12.5	
2	0.410	10	9.95	0.12	0.121	5000	5900	91858	91400	108393	107900	1.00	12.5	
3	0.415	10	10.01	0.12	0.122	4000	5100	73487	72240	93696	92100	1.00	12.5	
4	0.410	10	9.95	0.12	0.120	5000	5900	91858	91460	108393	108000	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
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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Pakistan. Ph: 92-42-99029202

To,
M/S Style Textile (Pvt) Ltd
Lahore
(Style SAP C1 Project) ((Naveena Steel) Kraftcon)

Reference # CED/TFL **37249** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 25-10-2021
Dated: 20-10-2021

Tension Test Report (Page -5/7)

Date of Test 25-10-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.420	10	10.07	0.12	0.123	5400	6300	99207	96480	115742	112600	0.80	10.0	
2	0.413	10	9.98	0.12	0.121	5100	6000	93696	92690	110230	109100	0.75	9.4	
3	0.408	10	9.93	0.12	0.120	4500	5500	82673	82690	101044	101100	1.00	12.5	
4	0.412	10	9.97	0.12	0.121	4800	5700	88184	87460	104719	103900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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Pakistan. Ph: 92-42-99029202

To,
M/S Style Textile (Pvt) Ltd
Lahore
(Style SAP C1 Project) ((Mughal Steel) Kraftcon)

Reference # CED/TFL **37249** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 25-10-2021
Dated: 13-10-2021

Tension Test Report (Page -6/7)

Date of Test 25-10-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.414	10	10.00	0.12	0.122	3900	5000	71650	70610	91858	90600	1.30	16.3	
2	0.416	10	10.02	0.12	0.122	3800	4900	69812	68580	90021	88500	1.30	16.3	
3	0.409	10	9.94	0.12	0.120	3800	5000	69812	69690	91858	91700	1.40	17.5	
4	0.416	10	10.02	0.12	0.122	3800	4900	69812	68490	90021	88400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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Pakistan. Ph: 92-42-99029202

To,
M/S Style Textile (Pvt) Ltd
Lahore
(Style SAP C1 Project) ((Agha Steel) Kraftcon)

Reference # CED/TFL **37249** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 25-10-2021
Dated: 11-10-2021

Tension Test Report (Page -7/7)

Date of Test 25-10-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.413	10	9.99	0.12	0.122	3700	5100	67975	67120	93696	92600	1.40	17.5	
2	0.408	10	9.93	0.12	0.120	3800	5200	69812	69780	95533	95500	1.20	15.0	
3	0.411	10	9.96	0.12	0.121	3800	5100	69812	69410	93696	93200	1.20	15.0	
4	0.411	10	9.96	0.12	0.121	3800	5200	69812	69330	95533	94900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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