



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

To,
 Resident Engineer
 NESPAK

Construction of Bypass from Royal Hotel (N-5) to Sarwar Chowk via Ada Mai Wali Masjid,
 Length = 13.70 km. (Phase-II) Section from Kachi Pakki Road to N-5 (Royal Hotel) Length =
 3.93 km including Construction of Flyover Bridge over Railway Track, LBDC and N-5 in
 District Sahiwal

Reference # CED/TFL **1368** (Dr. Usman Akmal)

Dated: 11-05-2022

Reference of the request letter # 4267/Sahiwal/ADP/Flyover/AF/02

Dated: 10-05-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022

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	0.395	3	0.384	0.11	0.116	3600	5000	72200	68370	100200	95000	1.40	17.5	FF Steel
2	0.396	3	0.385	0.11	0.116	3500	5100	70200	66300	102200	96700	1.40	17.5	
3	4.212	10	1.256	1.27	1.238	35800	51600	62200	63740	89600	91900	1.70	21.3	
4	4.090	10	1.237	1.27	1.202	35400	51600	61500	64910	89600	94700	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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														

I/C Testing Laboratories
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



STRUCTURAL ENGINEERING DIVISION
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Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Building Sub Division
 Noorpur Thal
 (Establishment of GPS Dera Jaat Moharan wala Noor pur Thal District Khushab)

Reference # CED/TFL **1371** (Dr. Usman Akmal)
 Reference of the request letter # 29/K

Dated: 12-05-2022
 Dated: 29-01-2022

Tension Test Report (Page -1/10)

Date of Test 17-05-2022
 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	0.373	3/8	0.374	0.11	0.110	3900	5000	78200	78390	100200	100500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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Test Floor Laboratory
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To,
 Sub Divisional Officer
 Building Sub Division
 Khushab
 (Construction of 2-Additional Class Room at GGES Bitta)

Reference # CED/TFL **1371** (Dr. Usman Akmal)
 Reference of the request letter # 349

Dated: 12-05-2022
 Dated: 29-01-2022

Tension Test Report (Page -2/10)

Date of Test 17-05-2022
 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	0.372	3/8	0.373	0.11	0.109	3800	4900	76200	76650	98200	98900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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Test Floor Laboratory
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To,
 Sub Divisional Officer
 Building Sub Division
 Noorpur Thal
 (Establishment of GPS Dera Riaz Hussain Saggi UC Jharkal District Khushab)

Reference # CED/TFL **1371** (Dr. Usman Akmal)
 Reference of the request letter # 64/N

Dated: 12-05-2022
 Dated: 04-03-2022

Tension Test Report (Page -3/10)

Date of Test 17-05-2022
 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	0.373	3/8	0.374	0.11	0.110	3800	4900	76200	76380	98200	98500	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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Test Floor Laboratory
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To,
Sub Divisional Officer
Building Sub Division
Khushab
(Construction of 2-ADD C/R with Ver at GGES No. 1 Okhli Mohla District Khushab)

Reference # CED/TFL **1371** (Dr. Usman Akmal)
Reference of the request letter # 36/K

Dated: 12-05-2022
Dated: 12-01-2022

Tension Test Report (Page -4/10)

Date of Test 17-05-2022
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	0.371	3/8	0.373	0.11	0.109	3800	4900	76200	76810	98200	99100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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
 Building Sub Division
 Noorpur Thal
 (Construction of Degree Classes Block Govt. Boys College Noor pur Thal District Khushab)

Reference # CED/TFL **1371** (Dr. Usman Akmal)
 Reference of the request letter # 42/N

Dated: 12-05-2022
 Dated: 10-02-2022

Tension Test Report (Page -5/10)

Date of Test 17-05-2022
 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	0.374	3/8	0.374	0.11	0.110	3800	4800	76200	76130	96200	96200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,
 Sub Divisional Officer
 Building Sub Division
 Noorpur Thal
 (Re-Construction of Degree Building in District Khushab GBES Dravi 2-Class Room)

Reference # CED/TFL **1371** (Dr. Usman Akmal)
 Reference of the request letter # 35/N

Dated: 12-05-2022
 Dated: 03-02-2022

Tension Test Report (Page -6/10)

Date of Test 17-05-2022
 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	0.374	3/8	0.374	0.11	0.110	3700	4900	74200	74270	98200	98400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Building Sub Division
 Noorpur Thal
 (Construction of Degree Classes Block Govt. Girls College Noorpur Thal, District Khushab)

Reference # CED/TFL **1371** (Dr. Usman Akmal)
 Reference of the request letter # 28/N

Dated: 12-05-2022
 Dated: 29-01-2022

Tension Test Report (Page -7/10)

Date of Test 17-05-2022
 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	0.372	3/8	0.373	0.11	0.109	3500	4900	70200	70560	98200	98800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

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Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Building Sub Division
 Khushab
 (Establishment of GGPS, Bhan Sultan Pur Angra Hadali District Khushab)

Reference # CED/TFL **1371** (Dr. Usman Akmal)
 Reference of the request letter # 41/K

Dated: 12-05-2022
 Dated: 13-01-2022

Tension Test Report (Page -8/10)

Date of Test 17-05-2022
 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	0.371	3/8	0.372	0.11	0.109	3800	4900	76200	76880	98200	99200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Sub Divisional Officer
 Building Sub Division
 Noorpur Thal
 (Basic Health Unit Rahdari District Khushab)

Reference # CED/TFL **1371** (Dr. Usman Akmal)
 Reference of the request letter # 67/N

Dated: 12-05-2022
 Dated: 08-03-2022

Tension Test Report (Page -9/10)

Date of Test 17-05-2022
 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	0.371	3/8	0.373	0.11	0.109	3900	4900	78200	78850	98200	99100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Sub Divisional Officer
 Building Sub Division
 Khushab
 (Establishment of GPS Dera Ishaque Mahal Mitha Tiwana District Khushab)

Reference # CED/TFL **1371** (Dr. Usman Akmal)
 Reference of the request letter # 40/K

Dated: 12-05-2022
 Dated: 13-01-2022

Tension Test Report (Page -10/10)

Date of Test 17-05-2022
 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	0.374	3/8	0.374	0.11	0.110	3800	4900	76200	76280	98200	98400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,
 Director (Civil)
 Mineral Development Project
 Islamabad

Reference # CED/TFL **1372** (Dr. Usman Akmal)
 Reference of the request letter # MDP-C&S-Gen(1)/2022/

Dated: 12-05-2022
 Dated: 18-04-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
 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	5.233	11	1.399	1.56	1.538	49000	70200	69300	70220	99200	100600	1.30	16.3	FF Steel
2	5.263	11	1.403	1.56	1.547	49800	70000	70400	70960	98900	99800	1.30	16.3	
3	5.259	11	1.403	1.56	1.546	50400	70000	71300	71860	98900	99800	1.20	15.0	
4	5.262	11	1.403	1.56	1.547	50800	70600	71800	72390	99800	100600	1.20	15.0	
5	5.237	11	1.400	1.56	1.539	50400	70200	71300	72170	99200	100600	1.30	16.3	
6	5.216	11	1.397	1.56	1.533	49400	69400	69800	71020	98100	99800	1.00	12.5	
7	5.285	11	1.406	1.56	1.554	50200	70000	71000	71220	98900	99400	1.20	15.0	

Note: only seven samples for tensile and three samples for bend test

Bend Test														
#11 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														

Witness by M. Jamil Alam (Quality Engineer)

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



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

To,
Manager Engineering & Projects
Mysons Petroleum (Pvt.) Ltd. – Lahore
(Mysons Petroleum Depot Sahiwal Site)

Reference # CED/TFL **1373** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 12-05-2022
Dated: 12-05-2022

Tension Test Report (Page – 1/1)

Date of Test 17-05-2022
Gauge length 2 inches
Description Steel Plate Steel Strip Tensile and Bend Test as per ASTM A-36

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	-----	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Steel Plate	30.00x8.30	249.00	7300	11200	288	441	0.50	25.00	
2	Steel Plate	30.00x8.50	255.00	7200	10600	277	408	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and Two Samples for Bend Test										
Bend Test										
Strip Taken from Steel Plate Bend Test Through 180° is Satisfactory										
Strip Taken from Steel Plate Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
Project Manager
Thaheem Construction Company
Silos for MA Agro Storage (P.V.T) Ltd at Luddan Road Vehari

Reference # CED/TFL 1374 (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 12-05-2022
Dated: 11-04-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
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	0.420	3/8	0.397	0.11	0.123	3300	4900	66200	58900	98200	87500	1.10	13.8	
2	0.408	3/8	0.391	0.11	0.120	3100	4700	62200	57030	94200	86500	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 Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
 Site Engineer
 ASTACO Engineers & Contractor
 House # 814-Z, DHA Phase III, Lahore

Reference # CED/TFL **1375** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 12-05-2022
 Dated: 10-05-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Ben;d 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	3500	4400	70200	70230	88200	88300	1.30	16.3	
2	0.379	3	0.376	0.11	0.111	3800	4600	76200	75280	92200	91200	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.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
 Resident Engineer (QA/QC Department)
 Bahria Town Private Limited
 Grid Station Transformer Foundations at Bahria Orchard

Reference # CED/TFL **1376** (Dr. Usman Akmal)
 Reference of the request letter # QA/QC/Steel/2612

Dated: 12-05-2022
 Dated: 11-05-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Ben;d 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	0.382	3	0.378	0.11	0.112	4500	5100	90200	88370	102200	100200	0.90	11.3	Mughal Steel
2	0.384	3	0.379	0.11	0.113	4400	5100	88200	85920	102200	99600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
 Sr. Manager (Works)
 Comsats University Islamabad, Lahore Campus
 “Renovation/Up-gradation of existing Building (IRCBM)” at Lahore campus

Reference # CED/TFL 1377 (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 13-05-2022
 Dated: 25-04-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Ben;d 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	0.384	3	0.379	0.11	0.113	3200	4800	64200	62510	96200	93800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
Chairman
Eagle Developers
Dream Galleria Lahore

Reference # CED/TFL **1379** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 13-05-2022
Dated: 13-05-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Ben;d 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	0.380	3	0.377	0.11	0.112	4200	5000	84200	82930	100200	98800	0.50	6.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,
 Sub Divisional Officer
 Highway Sub-Division Daska
 (Widening of Bridge on Darbar Canal Opposite Judicial Complex Daska in District Sialkot)

Reference # CED/TFL **1380** (Dr. Usman Akmal)
 Reference of the request letter # 137/D

Dated: 13-05-2022
 Dated: 10-05-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Ben;d 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	0.394	3	0.384	0.11	0.116	3200	5000	64200	60870	100200	95200	1.40	17.5	
2	0.371	3	0.372	0.11	0.109	2900	4600	58200	58670	92200	93100	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 Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
Ittefaq Building Solutions Pvt. Ltd
Lahore
(Kohinoor Textile Mill Raiwind, Lahore (Weaving Unit Extension & Yarn Storage) including)

Reference # CED/TFL **1381** (Dr. Usman Akmal)
Reference of the request letter # IBS/KTML/ST 09

Dated: 13-05-2022
Dated: 13-04-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
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	0.605	10	9.90	79.00	77.02	3200	4700	397	408	584	599	1.3	16.3	
2	0.605	10	9.91	79.00	77.10	3500	5100	435	445	633	649	1.5	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
 Assistant Project Engineer
 Defence Housing Authority,
 Gujranwala
 (Construction of Villas (Block – E))

Reference # CED/TFL **1383** (Dr. Usman Akmal)
 Reference of the request letter # 111/3/APE Bldgs/Gen/16

Dated: 13-05-2022
 Dated: 12-05-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
 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	0.357	3	0.365	0.11	0.105	3300	4800	66200	69360	96200	100900	0.80	10.0	Afco Steel
2	0.361	3	0.368	0.11	0.106	3500	5100	70200	72680	102200	105900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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 Athar Builders
Lahore
(26/C Liberty Market Gulberg III, Lahore)

Reference # CED/TFL **1386** (Dr. Usman Akmal)
Reference of the request letter # 00053

Dated: 16-05-2022
Dated: 13-05-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Ben;d 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	0.380	3	0.377	0.11	0.112	3600	4200	72200	71050	84200	82900	1.00	12.5	
2	0.379	3	0.377	0.11	0.111	3600	4200	72200	71260	84200	83200	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.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
 Procurement Officer
 Bismillah Developers
 Bismillah Housing Scheme I
 Manawan Bank Stop G.T Road, Lahore

Reference # CED/TFL **1389** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 16-05-2022
 Dated: 16-05-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Ben;d 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	0.378	3	0.376	0.11	0.111	3400	4800	68200	67520	96200	95400	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

- 1- You can See your reports On Internet in the following web site
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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,
 Deputy Director (Engg.)
 LDA, Lahore
 Construction of Mosque in LDA Avenue-I Housing Scheme, Lahore

Reference # CED/TFL **1390** (Dr. Usman Akmal)
 Reference of the request letter # DD(ENGG.)/LDA/544

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

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Ben;d 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	4800	66200	66380	96200	96600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

- 1- You can See your reports On Internet in the following web site
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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
 Pattoki
 (Construction of 20-Bedded Trauma Centre and Revamping of T.H.Q Hospital Pattoki District Kasur)
 Reference # CED/TFL **1392** (Dr. Usman Akmal) Dated: 16-05-2022
 Reference of the request letter # 844/P Dated: 23-04-2022

Tension Test Report (Page -1/1)

Date of Test 17-05-2022
 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	3/8	0.383	0.11	0.115	3500	5000	70200	66980	100200	95700	1.40	17.5	
2	0.394	3/8	0.384	0.11	0.116	3600	5100	72200	68470	102200	97000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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



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

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