



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
 Sheikhpura
 (Construction of New Carpet Road Sewerage and Street Lights from Hiran Minar Jilani Road
 Rasool Nagar Towards Shah Colony Road Miragpura Sheikhpura Length = 3.35 km (Phase-II
 2.26 km)
 Reference # CED/TFL **37380** (Dr. Rizwan Azam) Dated: 18-11-2021
 Reference of the request letter # 354/SKP Dated: 30-09-2021

Tension Test Report (Page -1/1)

Date of Test 22-11-2021
 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	0.110	2800	4000	56200	55890	80200	79900	1.60	20.0	Asif Steel
2	0.378	3	0.376	0.11	0.111	2800	3900	56200	55500	78200	77300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Dia 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



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To,
M/s Building Standards
Lahore
(Construction of Residential Building Gulberg, Lahore)

Reference # CED/TFL **37385** (Dr. Rizwan Azam)
Reference of the request letter # GT/LTR/211118-120

Dated: 18-11-2021
Dated: 18-11-2021

Tension Test Report (Page -1/1)

Date of Test 22-11-2021
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	0.362	3	0.368	0.11	0.106	3300	4300	66200	68320	86200	89100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
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To,
 Resident Engineer
 New Vision
 U/G Electrical Work of Sector-C, DHA, Bahawalpur

Reference # CED/TFL **37386** (Dr. Rizwan Azam) Dated: 18-11-2021
 Reference of the request letter # RE/DEL-Elec/Sec-C/1905/Site/31 Dated: 16-11-2021

Tension Test Report (Page -1/1)

Date of Test 22-11-2021
 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	0.384	3	0.379	0.11	0.113	3700	4900	74200	72340	98200	95800	1.10	13.8	Mughal
2	0.369	3	0.371	0.11	0.108	-----	5400	-----	-----	108200	109900	0.60	7.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 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
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To,
 Resident Engineer
 New Vision
 Civil Infrastructure Development Works for MB-01 Extension (West) Bridge DHAB

Reference # CED/TFL 37387 (Dr. Rizwan Azam)

Dated: 18-11-2021

Reference of the request letter # RE/NVEC/Site-MB-01/71

Dated: 13-11-2021

Tension Test Report (Page -1/1)

Date of Test 22-11-2021

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	0.372	3	0.373	0.11	0.109	2800	4100	56200	56470	82200	82700	1.40	17.5	Pak Steel
2	0.378	3	0.376	0.11	0.111	2900	4300	58200	57530	86200	85300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 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
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To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works of Sector – U & V DHA Phase-VIII) – (M/s Ambiance Pvt Ltd)

Reference # CED/TFL **37388** (Dr. Rizwan Azam)
Reference of the request letter # 408/241/E/Lab/158/42

Dated: 18-11-2021
Dated: 12-11-2021

Tension Test Report (Page -1/1)

Date of Test 22-11-2021
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	0.393	3	0.384	0.11	0.116	3300	4800	66200	62900	96200	91500	1.30	16.3	SJ Steel
2	0.404	3	0.389	0.11	0.119	3300	4800	66200	61300	96200	89200	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.

Note:

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STRUCTURAL ENGINEERING DIVISION
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To,
M/S M R Builders
Lahore
(Construction of New ABL Building 3A 4A Commercial Talwar Chowk Bahria Town, Lahore)

Reference # CED/TFL **37389** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 18-11-2021
Dated: 18-11-2021

Tension Test Report (Page -1/1)

Date of Test 22-11-2021
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	0.368	3	0.371	0.11	0.108	3800	5100	76200	77490	102200	104000	1.20	15.0	FF Steel
2	0.366	3	0.370	0.11	0.107	3800	5100	76200	77960	102200	104700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 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
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To,
 Project Manager
 State Grid
 Design, Supply, Installation, Testing & Commissioning of 500kV/D/C Transmission Line Nokhar
 S/S – Lahore North S/S- Lahore HVDC Switching / Converter Station

Reference # CED/TFL **37390** (Dr. Rizwan Azam) Dated: 18-11-2021
 Reference of the request letter # CET/ADB-301A/UET-21-135 Dated: 18-11-2021

Tension Test Report (Page -1/1)

Date of Test 22-11-2021
 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	0.372	3	0.373	0.11	0.109	3100	4800	62200	62540	96200	96900	1.40	17.5	
2	0.405	3	0.389	0.11	0.119	4000	5200	80200	74130	104200	96400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#3 Dia Bar Bend Test Through 180° is Satisfactory														
#3 Dia Bar Bend Test Through 180° is Satisfactory														

Witness by Assif Ali (Sr. Engr. NESPAK)

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,
 Resident Engineer – I
 NESPAK
 Widening of Aik Moria Pull, Lahore

Reference # CED/TFL **37393** (Dr. Rizwan Azam)
 Reference of the request letter # 3772/AMP/103/MWA/04/79

Dated: 19-11-2021
 Dated: 16-11-2021

Tension Test Report (Page -1/2)

Date of Test 22-11-2021
 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	5.181	11	1.393	1.56	1.523	43000	69600	60800	62230	98400	100800	1.60	20.0	Ittehad Steel
2	5.176	11	1.392	1.56	1.521	44000	70400	62200	63750	99500	102000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#11 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,
 Resident Engineer – I
 NESPAK
 Widening of Aik Moria Pull, Lahore

Reference # CED/TFL **37393** (Dr. Rizwan Azam)

Dated: 19-11-2021

Reference of the request letter # 3772/AMP/103/MWA/04/81

Dated: 16-11-2021

Tension Test Report (Page -2/2)

Date of Test 22-11-2021

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	4.111	10	1.240	1.27	1.208	36800	51600	63900	67120	89600	94200	1.60	20.0	Ittehad Steel
2	4.127	10	1.243	1.27	1.213	43200	56400	75000	78480	97900	102500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Planning & Coordination Engineer
 Ittefaq Building Solutions (Pvt) Ltd
 Master Textile Mills Ltd. (Extension of Spining Unit M-7)

Reference # CED/TFL **37395** (Dr. Rizwan Azam)
 Reference of the request letter # IBS/M-7/Steel/18/11/2021

Dated: 19-11-2021
 Dated: 18-11-2021

Tension Test Report (Page -1/1)

Date of Test 22-11-2021
 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	0.379	3	0.377	0.11	0.111	3300	4800	66200	65320	96200	95100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
M/S Imran Construction Company
Multan
(Mehmood Textile Unit # 6, Chowk Sawar Saheed M M Road Mufafergarh)

Reference # CED/TFL **37396** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 19-11-2021
Dated: 19-11-2021

Tension Test Report (Page -1/1)

Date of Test 22-11-2021
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	0.386	10	9.66	0.12	0.114	4300	5300	78998	83450	97370	102900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,
 Construction Manager
 BSM Developers Pvt Ltd
 Phase-8, DHA Lahore

Reference # CED/TFL **37398** (Dr. Rizwan Azam)
 Reference of the request letter # CM/BSM/Ph-8/15

Dated: 22-11-2021
 Dated: 19-11-2021

Tension Test Report (Page -1/1)

Date of Test 22-11-2021
 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	0.389	3/8	0.381	0.11	0.114	4000	5300	80200	77160	106200	102300	0.90	11.3	AF Steel
2	0.375	3/8	0.375	0.11	0.110	3800	5000	76200	75930	100200	99900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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:

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