



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
CEC-Minconsult (Jv)
Khyber Pakhtunkhwa Provincial Roads Improvement Project (KP-PRIP)
Risalpur - Pirsabaq - Misri Banda – Jehangira Road Section (37-km)

Reference # CED/TFL **35029** (Dr. M Rizwan Riaz)

Dated: 23-06-2020

Reference of the request letter # CEC/Mincousult (JV)/RE-III/2020/173

Dated: 18-03-2020

Tension Test Report (Page – 1/4)

Date of Test 25-06-2020

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)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	781.0	18000	176.58	19500	191.30	198	>3.50	
2	12.70 (1/2")	775.0	785.0	18600	182.47	19700	193.26	199	>3.50	
3	12.70 (1/2")	775.0	782.0	17700	173.64	19200	188.35	198	>3.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only three samples for Test										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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To,
Resident Engineer
CEC-Minconsult (Jv)
Khyber Pakhtunkhwa Provincial Roads Improvement Project (KP-PRIP)
Risalpur - Pirsabaq - Misri Banda – Jehangira Road Section (37-km)

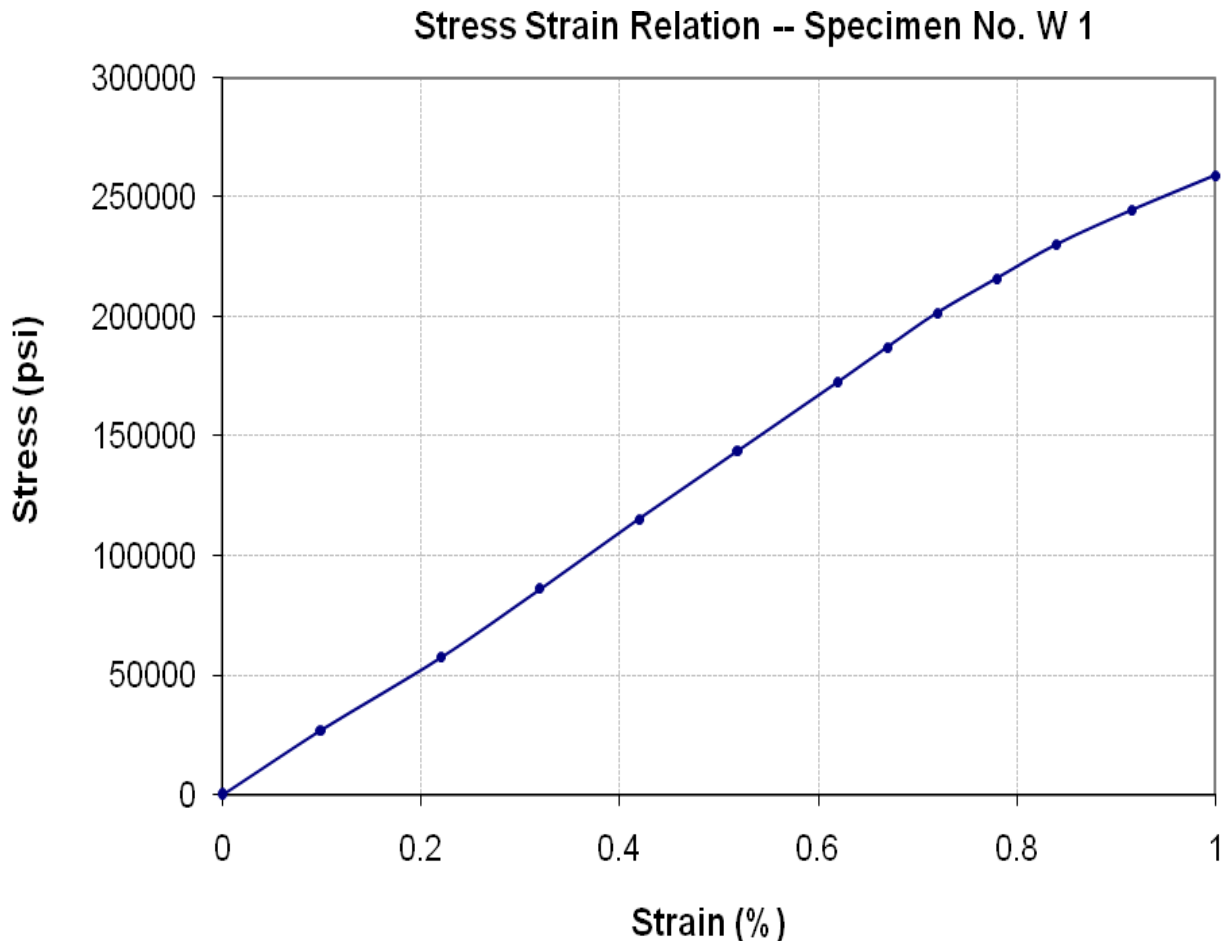
Reference # CED/TFL **35029** (Dr. M Rizwan Riaz)

Dated: 23-06-2020

Reference of the request letter # CEC/Mincousult (JV)/RE-III/2020/173

Dated: 18-03-2020

Graph (Page – 2/4)



I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
CEC-Minconsult (Jv)
Khyber Pakhtunkhwa Provincial Roads Improvement Project (KP-PRIP)
Risalpur - Pirsabaq - Misri Banda – Jehangira Road Section (37-km)

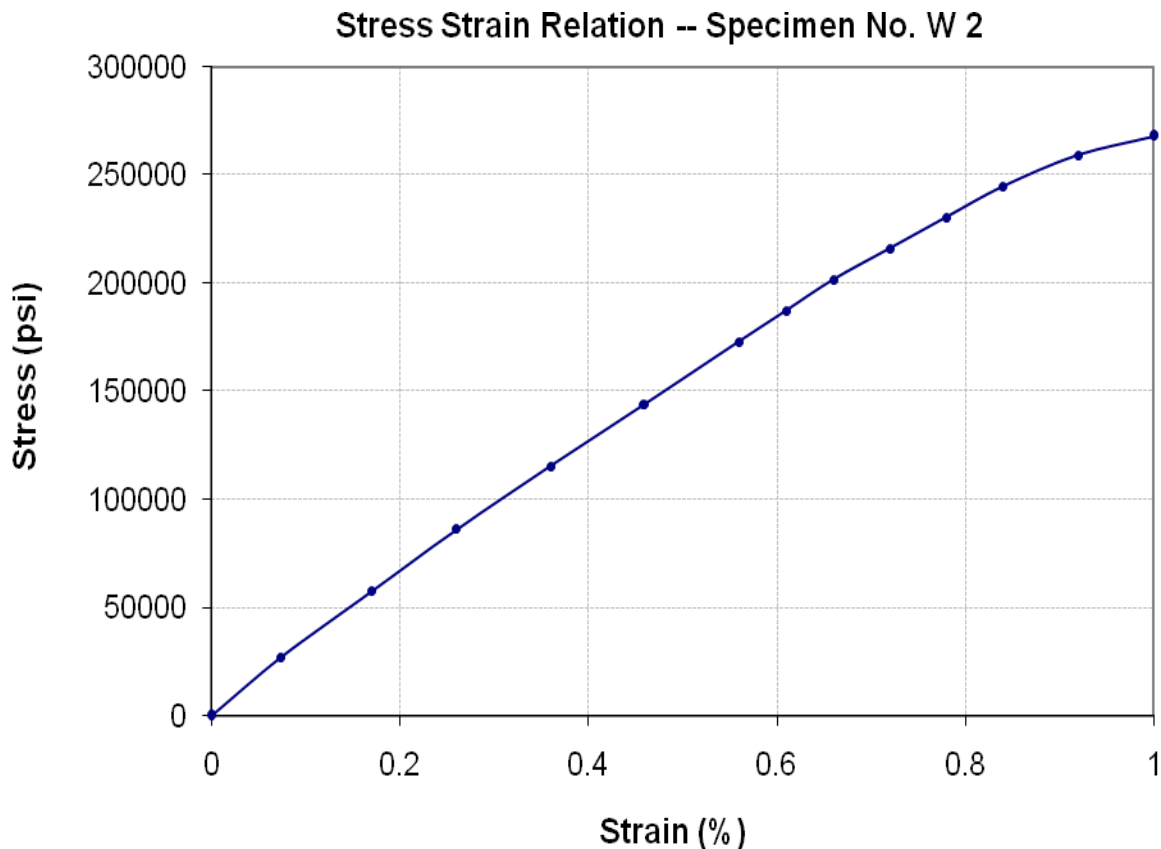
Reference # CED/TFL **35029** (Dr. M Rizwan Riaz)

Dated: 23-06-2020

Reference of the request letter # CEC/Mincousult (JV)/RE-III/2020/173

Dated: 18-03-2020

Graph (Page – 3/4)



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To,
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Khyber Pakhtunkhwa Provincial Roads Improvement Project (KP-PRIP)
Risalpur - Pirsabaq - Misri Banda – Jehangira Road Section (37-km)

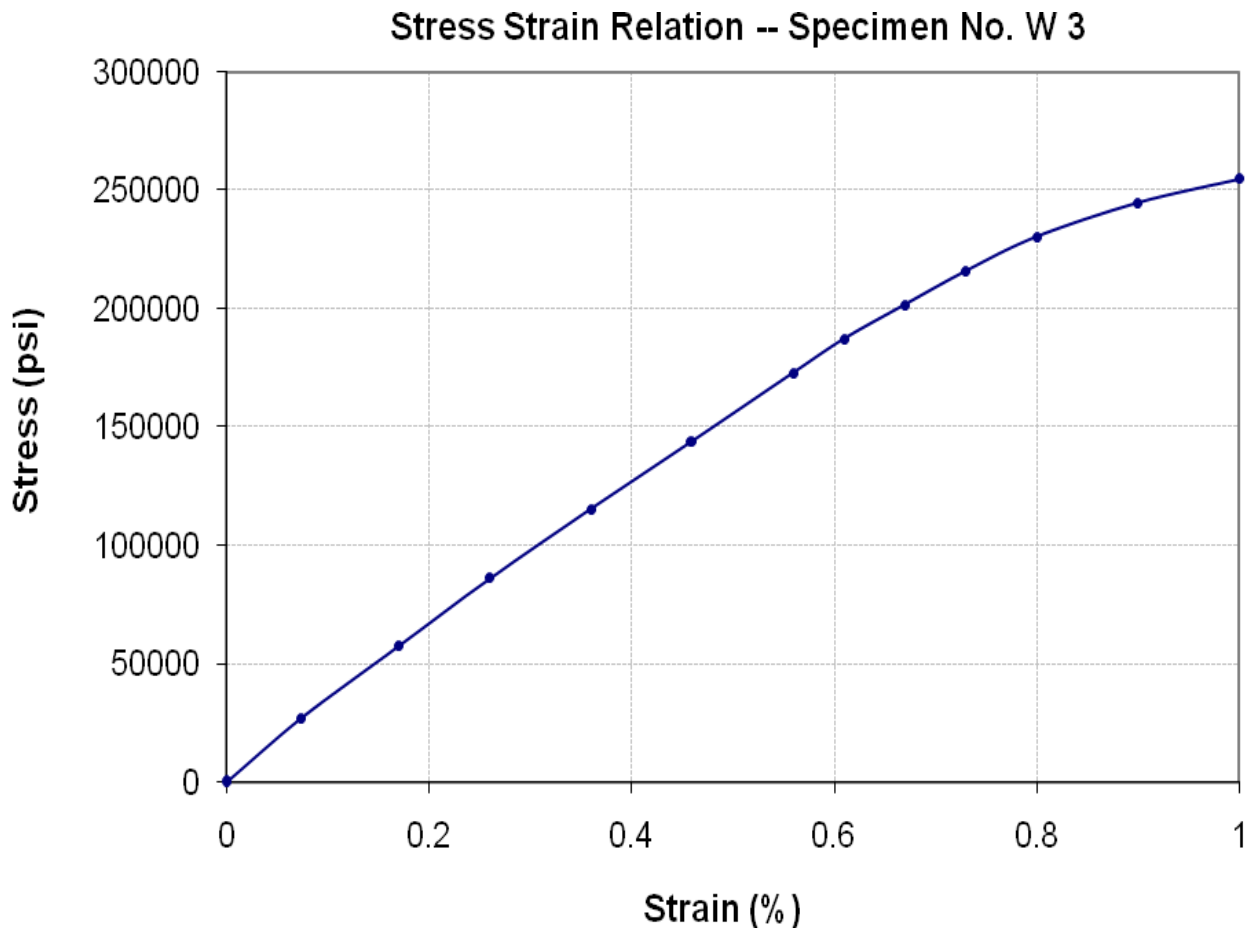
Reference # CED/TFL **35029** (Dr. M Rizwan Riaz)

Dated: 23-06-2020

Reference of the request letter # CEC/Mincousult (JV)/RE-III/2020/173

Dated: 18-03-2020

Graph (Page – 4/4)



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
 National Engineering Services Pakistan (Pvt) Ltd
 Establishment of U.E.T. Lahore Sub Campus at Narowal

Reference # CED/TFL **35036** (Dr. Qasim Khan)
 Reference of the request letter # UET.NESPAK/13/Testing/SYA/01

Dated: 24-06-2020
 Dated: 23-06-2020

Tension Test Report (Page -1/1)

Date of Test 25-06-2020
 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	0.361	3	0.367	0.11	0.106	3000	4700	60200	62350	94200	97700	1.00	12.5	SGI
2	0.360	3	0.367	0.11	0.106	3000	4600	60200	62530	92200	95900	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														

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,
 Partner
 N.A. Associates
 Construction of Commercial Building at Plot No. 44-D-1, Gulberg - III, Lahore

Reference # CED/TFL **35037** (Dr. Qasim Khan)
 Reference of the request letter # NAA/Bill/44-D-I/24

Dated: 24-06-2020
 Dated: 24-06-2020

Tension Test Report (Page -1/1)

Date of Test 25-06-2020
 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	0.409	3/8	0.391	0.11	0.120	4100	5000	82200	75120	100200	91700	1.30	16.3	Afco Steel
2	0.408	3/8	0.391	0.11	0.120	4000	5100	80200	73540	102200	93800	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.

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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 / Team Leader
 Prime Engineering Consultancy
 Kallurkot Bridge Project
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan

Reference # CED/TFL **35038** (Dr. Qasim Khan)
 Reference of the request letter # KK-DIK--BR-PJ/2020/169

Dated: 24-06-2020
 Dated: 22-06-2020

Tension Test Report (Page -1/1)

Date of Test 25-06-2020
 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	4.112	32	31.51	1.25	1.209	38200	52200	67373	69660	92064	95200	1.50	18.8	Pak Steel
2	4.121	32	31.54	1.25	1.211	37800	51800	66667	68780	91359	94300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm 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,
 Resident Engineer
 Architectural & Civil Engineering Services
 Civil Infrastructure Works Sector U – DHA Multan
 (Mughal Steel)

Reference # CED/TFL **35039** (Dr. Qasim Khan)
 Reference of the request letter # ACES-DHAM-SEC-U-061

Dated: 24-06-2020
 Dated: 23-06-2020

Tension Test Report (Page -1/1)

Date of Test 25-06-2020
 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	0.406	10	9.90	0.12	0.119	3900	5300	71650	72080	97370	98000	1.10	13.8	
2	0.410	10	9.95	0.12	0.120	4000	5300	73487	73190	97370	97000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,
 Acting Chief Resident Engineer
 Trimmu and Panjnad Barrages Consultants
 Trimmu and Panjnad Barrages Improvement Project (TPBIP)

Reference # CED/TFL **35040** (Dr. Qasim Khan)
 Reference of the request letter # TPBC/CRE/2257

Dated: 24-06-2020
 Dated: 23-06-2020

Tension Test Report (Page -1/1)

Date of Test 25-06-2020
 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	0.430	10	10.19	0.12	0.126	4200	5600	77161	73240	102881	97700	1.20	15.0	Afco Steel
2	0.406	10	9.91	0.12	0.119	3800	5200	69812	70100	95533	96000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:

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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
 Site Madina Cooperative at Queens Road Lahore

Reference # CED/TFL **35042** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 24-06-2020

Dated: 24-06-2020

Tension Test Report (Page -1/1)

Date of Test 25-06-2020
 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	0.411	3	0.392	0.11	0.121	3300	4800	66200	60270	96200	87700	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														

To,

I/C Testing Laboratories
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

Flight Lieutenant
 Assistant Director (Technical)
 AFOHS (Dett) Lahore

Reference # CED/TFL **35043** (Dr. Qasim Khan)
 Reference of the request letter # AHQ/74314/3/1/AFOHS

Dated: 24-06-2020
 Dated: 23-06-2020

Tension Test Report (Page -1/1)

Date of Test 25-06-2020
 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	0.365	3/8	0.370	0.11	0.107	3600	4900	72200	73870	98200	100600	0.80	10.0	
2	0.363	3/8	0.369	0.11	0.107	3600	4900	72200	74380	98200	101300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 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,
M/S SIA Engineers & Contractors
Gujranwala
(e.co B2S Project Site ID: Na-4009, NA-M59, T-code-2020-28, R-2020-21, R-New-125 NA-M-49, T-2020-28, R-Site-313, NA-M185, R-2020-0018)

Reference # CED/TFL **35044** (Dr. Qasim Khan)
Reference of the request letter # SIA/Steel/e.co/B2S/005

Dated: 24-06-2020
Dated: 18-03-2020

Tension Test Report (Page -1/2)

Date of Test 25-06-2020
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	0.394	10	9.75	0.12	0.116	3400	4800	62464	64780	88184	91500	1.50	18.8	
2	0.422	10	10.10	0.12	0.124	3200	4800	58789	56800	88184	85200	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S SIA Engineers & Contractors
Gujranwala
(e.co B2S Project Site ID: IBU048, IBN057, Add-016-1, FFD350, R_New_202, R_2020_0016,
NA-M61, R-2020-0149, 52421, 52495)

Reference # CED/TFL **35044** (Dr. Qasim Khan)
Reference of the request letter # SIA/Steel/e.co/B2S/004

Dated: 24-06-2020
Dated: 18-03-2020

Tension Test Report (Page -2/2)

Date of Test 25-06-2020
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	0.393	10	9.75	0.12	0.116	3100	4500	56952	59090	82673	85800	1.50	18.8	
2	0.394	10	9.75	0.12	0.116	3100	4700	56952	59030	86347	89500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S CM Engineering (Pvt) Ltd
Lahore
(CMPAK Project Site ID: 43007, 43011, 43033, 43039, 43042, 43078, 42444, 43037, 43038, 42914, 42976, 43143, 4270, 42970, 42972)

Reference # CED/TFL **35045** (Dr. Qasim Khan)
Reference of the request letter # CME/Steel/CMPAK/333

Dated: 24-06-2020
Dated: 10-06-2020

Tension Test Report (Page -1/1)

Date of Test 25-06-2020
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	0.393	10	9.74	0.12	0.116	3300	5100	60627	62940	93696	97300	1.30	16.3	
2	0.396	10	9.78	0.12	0.116	3300	5200	60627	62510	95533	98500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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,
 Sub Divisional Officer
 Buildings Sub Division No. 4
 Lahore
 "M/R to Governor's House Lahore (Hatcher Room Near over Head Reservoir)"

Reference # CED/TFL **35046** (Dr. Qasim Khan)
 Reference of the request letter # 953/GH

Dated: 24-06-2020
 Dated: 05-06-2020

Tension Test Report (Page -1/1)

Date of Test 25-06-2020
 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	0.360	3/8	0.367	0.11	0.106	3200	3700	64200	66630	74200	77100	1.80	22.5	
2	0.365	3/8	0.370	0.11	0.107	3200	3700	64200	65680	74200	76000	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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- 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,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL **35047** (Dr. Qasim Khan)
 Reference of the request letter # ST/UET/20200625

Dated: 25-06-2020
 Dated: 25-06-2020

Tension Test Report (Page -1/1)

Date of Test 25-06-2020
 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	0.375	3	0.375	0.11	0.110	3100	4300	62200	62030	86200	86100	1.00	12.5	Model
2	0.385	3	0.379	0.11	0.113	3500	4700	70200	68210	94200	91600	1.10	13.8	
3	0.356	3	0.365	0.11	0.104	3000	4300	60200	63280	86200	90700	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.

Note:

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- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples