



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
 Metroplan – Asian Jv
 Establishment of 200 Beded Mother & Child Hospital (MCH), Layyah

Reference # CED/TFL **1484** (Engr. Bilal)

Dated: 02-06-2022

Reference of the request letter # Metroplan-Asian JV-MCH-Layyah-RE-59 Dated: 29-05-2022

Tension Test Report (Page -1/1)

Date of Test 03-06-2022

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.395	3	0.384	0.11	0.116	4000	5100	80200	75980	102200	96900	0.90	11.3	AF Steel
2	4.263	10	1.263	1.27	1.253	40200	53200	69800	70700	92400	93600	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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 Laboratoires
UET Lahore, Pakistan.

Note:

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To,
M/S CSP Construction (Private) Limited
Islamabad
(Warehouse Rectification Works at Allied Bank Mandi Faizabad & Kamoke, Gujranwala)

Reference # CED/TFL **1485** (Engr. Bilal)
Reference of the request letter # CSP/L/22-139

Dated: 02-06-2022
Dated: 02-06-2022

Tension Test Report (Page -1/1)

Date of Test 03-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.366	3	0.370	0.11	0.108	4500	5400	90200	92140	108200	110600	1.00	12.5	Amerli Steel
2	0.368	3	0.371	0.11	0.108	4800	5600	96200	97870	112300	114200	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.

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STRUCTURAL ENGINEERING DIVISION
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To,
M/S Five Star Construction Co
Karachi

Reference # CED/TFL **1486** (Engr. Bilal)
Reference of the request letter # Nil

Dated: 02-06-2022
Dated: 02-06-2022

Tension Test Report (Page -1/1)

Date of Test 03-06-2022
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.383	10	9.61	0.12	0.112	4500	5300	82673	88200	97370	103900	0.90	11.3	
2	0.383	10	9.62	0.12	0.113	4300	5200	78998	84190	95533	101900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratories
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
 Director P & D
 KFUEIT
 Construction of 30 No. Class Rooms (ADP) at Khwaja Fareed University Engineering and Information Technology Rahim Yar Khan

Reference # CED/TFL **1487** (Engr. Bilal)
 Reference of the request letter # KFUEIP/P&D/11

Dated: 02-06-2022
 Dated: 06-01-2022

Tension Test Report (Page -1/3)

Date of Test 03-06-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.371	3	0.373	0.11	0.109	3300	4300	66200	66650	86200	86900	1.50	18.8	
2	0.375	3	0.374	0.11	0.110	3400	4400	68200	68070	88200	88100	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.

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STRUCTURAL ENGINEERING DIVISION
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To,
 Director P & D
 KFUEIT
 Construction of Guest House (ADP) at Khwaja Fareed University Engineering and Information
 Technology Rahim Yar Khan

Reference # CED/TFL **1487** (Engr. Bilal)

Dated: 02-06-2022

Reference of the request letter # KFUEIP/P&D/32

Dated: 19-01-2022

Tension Test Report (Page -2/3)

Date of Test

03-06-2022

Gauge length

8 inches

Description

Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.372	3	0.373	0.11	0.109	3400	4300	68200	68470	86200	86600	1.10	13.8	
2	0.382	3	0.378	0.11	0.112	3600	4500	72200	70610	90200	88300	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														

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UET Lahore, Pakistan.

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To,
 Director P & D
 KFUEIT
 Construction of Executive Club (ADP) at Khwaja Fareed University Engineering and
 Information Technology Rahim Yar Khan

Reference # CED/TFL **1487 (Engr. Bilal)** Dated: 02-06-2022
 Reference of the request letter # KFUEIP/P&D/32 Dated: 19-01-2022

Tension Test Report (Page -3/3)

Date of Test 03-06-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.382	3	0.378	0.11	0.112	3600	4500	72200	70640	90200	88300	1.30	16.3	
2	0.436	3	0.404	0.11	0.128	5500	6700	110200	94620	134300	115300	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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Pakistan. Ph: 92-42-99029202

To,
 Planning & Coordination Engineer
 REDO Engineering & Construction (Pvt) Ltd
 Lahore
 (Starch Pack)

Reference # CED/TFL **1489** (Dr. Asif Hameed)
 Reference of the request letter # Nil

Dated: 02-06-2022
 Dated: 02-06-2022

Tension Test Report (Page -1/1)

Date of Test 03-06-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.377	3	0.375	0.11	0.111	4100	5100	82200	81630	102200	101600	1.00	12.5	
2	0.375	3	0.375	0.11	0.110	4200	5150	84200	84010	103200	103100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
 A/XEN E&M
 GE (Air) Rafiqui
 (Rehabilitation of Follower Quarters at PAF Base Rafiqui CA No. CAEF-CZ-20/2022)

Reference # CED/TFL **1490** (Dr. Asif Hameed)
 Reference of the request letter # 6581/21/E-6

Dated: 02-06-2022
 Dated: 31-05-2022

Tension Test Report (Page -1/1)

Date of Test 03-06-2022
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.377	3/8	0.375	0.11	0.111	2400	3100	48100	47800	62200	61800	2.00	25.0	
2	0.374	3/8	0.374	0.11	0.110	2350	3150	47100	47160	63200	63300	1.90	23.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,
M/S Usman Industries
Gujranwala

Reference # CED/TFL **1493** (Dr. Rizwan Azam)
Reference of the request letter # Nil

Dated: 03-06-2022

Dated: 01-06-2022

Tensile / Slippage Test Report (Page -1/1)

Date of Test 03-06-2022
Description Rebar Coupler Slippage Test

Sr. No.	Dia	Failure Load	Mode of Failure	Remarks
	(mm)	(kg)	---	
1	36	53600	Assembly Failed	
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
Note: only one sample for test				

I/C Testing Laboratories
UET Lahore, Pakistan.

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