



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

To,
 Assistant Resident Engineer
 Prime Engineering Consultancy
 Kallurkot Bridge Project
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan
 (Nomee Steel)
 Reference # CED/TFL **33184, 187** (Dr. Waseem Abbas) Dated: 06-05-2019
 Reference of the request letter # PE-BA-JV/KK-DIK/2019/020 Dated: 06-05-2019

Tension Test Report (Page -1/1)

Date of Test 07-05-2019
 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	0.415	10	10.01	0.11	0.122	3700	5700	74200	66800	114300	102900	1.10	13.8	
2	4.247	32	32.02	1.27	1.248	39800	51800	69100	70270	89900	91500	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Acting Project Director
 Air University Multan Campus
 Construction of Academic Block-I

Reference # CED/TFL **33185** (Dr. Waseem Abbas)
 Reference of the request letter # MUX/AUMC/AB1/2018/78

Dated: 06-05-2019
 Dated: 02-05-2019

Tension Test Report (Page -1/1)

Date of Test 07-05-2019
 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	0.369	3	0.372	0.11	0.109	2900	4300	58200	58870	86200	87300	1.30	16.3	
2	0.364	3	0.369	0.11	0.107	2800	4300	56200	57620	86200	88500	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.

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To,
 Project Manager
 Liberty Condominiums
 Construction of Gulberg Grave, Lahore

Reference # CED/TFL **33188** (Dr. Waseem Abbas)
 Reference of the request letter # LC/T/2/17

Dated: 06-05-2019
 Dated: 06-05-2019

Tension Test Report (Page -1/1)

Date of Test 07-05-2019
 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	3100	4400	62200	65140	88200	92500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,
M/S Defence Housing Authority.
Lahore Cantt
(External Elec Works (U/G) IVY Green, Sector-Z, DHA Ph-VIII)(M/s NLC)

Reference # CED/TFL **33189** (Dr. Waseem Abbas)
Reference of the request letter # 408/241/E/Lab/552/102

Dated: 06-05-2019
Dated: 03-05-2019

Tension Test Report (Page -1/1)

Date of Test 07-05-2019
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	0.381	3	0.378	0.11	0.112	3700	5400	74200	72730	108200	106200	1.00	12.5	FF Steel
2	0.379	3	0.377	0.11	0.111	3600	4600	72200	71210	92200	91000	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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To,
M/S Defence Housing Authority.
Lahore Cantt
(Const. of Commercial Plaza DRGCC DHA Ph-VI)(M/s Construct)

Reference # CED/TFL **33191** (Dr. Waseem Abbas)
Reference of the request letter # 408/241/E/Lab/548/2211

Dated: 06-05-2019
Dated: 30-04-2019

Tension Test Report (Page -1/2)

Date of Test 07-05-2019
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	0.359	3	0.367	0.11	0.106	3500	4600	70200	73050	92200	96100	1.20	15.0	Kamran Steel
2	0.360	3	0.367	0.11	0.106	3500	4600	70200	72930	92200	95900	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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To,
M/S Defence Housing Authority.
Lahore Cantt
(Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI)(M/s Construct)

Reference # CED/TFL **33191** (Dr. Waseem Abbas)
Reference of the request letter # 408/241/E/Lab/556/7321

Dated: 06-05-2019
Dated: 06-05-2019

Tension Test Report (Page -2/2)

Date of Test 07-05-2019
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	0.365	3	0.370	0.11	0.107	3400	4700	68200	69790	94200	96500	1.30	16.3	Kamran Steel
2	0.365	3	0.369	0.11	0.107	3300	4600	66200	67870	92200	94600	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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To,
M/S Defence Housing Authority.
Lahore Cantt
(Infra Dev Works Sector-M (Extension), DHA PH-V)(M/s AAJ Engrs)

Reference # CED/TFL **33192** (Dr. Ali Ahmed)
Reference of the request letter # 408/241/E/Lab/559/18

Dated: 06-05-2019
Dated: 06-05-2019

Tension Test Report (Page -1/1)

Date of Test 07-05-2019
Gauge length -----
Description Deformed Steel Bar Tensile Test as per ASTM-A496

Sr. No.	Weight	Diameter/size		Area (mm ²)		Yield load	Breaking Load	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
	(Kg/m)	Nominal (in)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	
1	0.254	1/4	6.42	32.26	32.42	1100	1700	335	333	517	514	
2	0.254	1/4	6.42	32.26	32.33	1100	1700	335	334	517	516	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test												
Bend Test												

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To,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue Project, 17-A, Cooper Road, Lahore
 (Model Steel)

Reference # CED/TFL **33195** (Dr. Waseem Abbas)
 Reference of the request letter # CONC-20190507

Dated: 07-05-2019
 Dated: 07-05-2019

Tension Test Report (Page -1/1)

Date of Test 07-05-2019
 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	0.358	3	0.366	0.11	0.105	3800	4800	76200	79700	96200	100700	0.65	8.1	
2	0.371	3	0.372	0.11	0.109	3300	4300	66200	66780	86200	87100	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														

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