



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
 Al-Imam Enterprises (Pvt) Ltd
 Construction of Penta Square, Phase-V, D.H.A, Lahore
 (Kamran Steel)

Reference # CED/TFL **34208** (Dr. M Rizwan Riaz)

Dated: 22-11-2019

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1002

Dated: 15-11-2019

Tension Test Report (Page -1/2)

Date of Test 25-11-2019

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	4.256	32	32.06	1.25	1.251	40400	56000	71253	71180	98766	98700	1.50	18.8	
2	4.263	32	32.08	1.25	1.253	40600	56200	71605	71410	99119	98900	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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2. The above results pertain to sample /samples supplied to this laboratory.
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To,
 Resident Engineer
 Al-Imam Enterprises (Pvt) Ltd
 Construction of Penta Square, Phase-V, D.H.A, Lahore
 (Al Moiz Steel)

Reference # CED/TFL **34208** (Dr. M Rizwan Riaz)

Dated: 22-11-2019

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1005

Dated: 20-11-2019

Tension Test Report (Page -2/2)

Date of Test 25-11-2019

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	4.261	32	32.08	1.25	1.252	37200	55200	65609	65470	97355	97200	1.50	18.8	
2	4.211	32	31.89	1.25	1.238	37000	54000	65256	65880	95239	96200	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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To,
 Manager Contracts
 Infrastructure Development Authority of the Punjab
 Construction of Training Lab at Punjab Forensic Science Agency (PFSA), Lahore
 (Kamran Steel)

Reference # CED/TFL **34209** (Dr. M Rizwan Riaz)
 Reference of the request letter # E(PFSL)/IDAP/3/264

Dated: 22-11-2019
 Dated: 21-11-2019

Tension Test Report (Page -1/1)

Date of Test 25-11-2019
 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	0.359	3/8	0.366	0.11	0.105	3100	4700	62200	64820	94200	98300	1.50	18.8	
2	0.365	3/8	0.370	0.11	0.107	3300	4800	66200	67760	96200	98600	1.30	16.3	
3	0.373	3/8	0.374	0.11	0.110	3300	4900	66200	66310	98200	98500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three 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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To,
M/S Pak All in Developers Green
Islamabad
(Plaza Building Islamabad)

Reference # CED/TFL **34212** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 22-11-2019
Dated: 21-11-2019

Tension Test Report (Page -1/1)

Date of Test 25-11-2019
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	3200	4600	64200	61190	92200	88000	1.50	18.8	
2	0.390	3/8	0.382	0.11	0.115	3600	4700	72200	69190	94200	90400	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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To,
M.E
M/S AS Enterprises
Style Textile Raiwind Road
(AA Associates)(Afce)

Reference # CED/TFL **34213** (Dr. M Rizwan Riaz)
Reference of the request letter # USD/ASE/16

Dated: 22-11-2019
Dated: 22-11-2019

Tension Test Report (Page -1/1)

Date of Test 25-11-2019
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	0.414	10	10.00	0.12	0.122	4100	5600	75324	74280	102881	101500	1.10	13.8	
2	0.403	10	9.86	0.12	0.118	4200	5500	77161	78180	101044	102400	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														

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