



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

To,
 Executive Engineer (B&W)
 UVAS, Lahore
 (Construction of Boys Hostel at CVAS, Narowal)

Reference # CED/TFL **35346** (Dr.M Rizwan Riaz)
 Reference of the request letter # EE./580

Dated: 10-09-2020
 Dated: 10-09-2020

Tension Test Report (Page -1/1)

Date of Test 11-09-2020
 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	0.363	3/8	0.369	0.11	0.107	4100	5200	82200	84630	104200	107400	0.60	7.5	Mughal Steel
2	0.366	3/8	0.370	0.11	0.107	4200	5300	84200	86160	106200	108800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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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To,
 Project Director
 Banu Mukhtar (Pvt) Ltd
 Construction of Greenfield Manufacturing Plant for Velo, Jhelum

Reference # CED/TFL **35349** (Dr.M Rizwan Riaz)
 Reference of the request letter # BML-002-Civil-002

Dated: 10-09-2020
 Dated: 08-09-2020

Tension Test Report (Page -1/1)

Date of Test 11-09-2020
 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	0.366	3	0.370	0.11	0.108	3300	4800	66200	67630	96200	98400	1.50	18.8	Moiz Steel
2	0.369	3	0.371	0.11	0.108	3400	4900	68200	69180	98200	99700	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														

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To,
 Project Director (North-3)
 PAEC, Chashma
 (Construction of Jamia Masjid at D-Site Colony Chashma)(Al-Moiz Steel)(Heat No. 2411)

Reference # CED/TFL **35351** (Dr. M Riozwan Riaz) Dated: 10-09-2020
 Reference of the request letter # KCI-Works-81(326)/17/1919 Dated: 08-09-2020

Tension Test Report (Page -1/1)

Date of Test 11-09-2020
 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	0.372	3/8	0.373	0.11	0.109	3400	4900	68200	68450	98200	98700	1.40	17.5	
2	0.373	3/8	0.374	0.11	0.110	3300	4900	66200	66260	98200	98400	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														

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To,
 Deputy Director, Sec-III, (Package-I)
 Lahore Development Authority
 LOLMTP, LDA
 (Construction of Store Room and Parking Shed of PWD/C&W Compound Situated at Mcleod Road Lahore Orange Line Metro Train Project, Package-I)
 Reference # CED/TFL **35352** (Dr. M Rizwan Riaz) Dated: 10-09-2020
 Reference of the request letter # DD/SEC-III/PKG-I/LOLMTP/LDA/91 Dated: 18-07-2020

Tension Test Report (Page -1/2)

Date of Test 11-09-2020
 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	0.372	3/8	0.373	0.11	0.109	3600	4500	72200	72470	90200	90600	1.20	15.0	
2	0.375	3/8	0.375	0.11	0.110	3600	4900	72200	71960	98200	98000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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,
 Deputy Director, Sec-III, (Package-I)
 Lahore Development Authority
 LOLMTP, LDA
 (Shifting/Construction of PTCL Boundary Wall Situated at Mall Road, Lahore Lahore Orange
 Line Metro Train Project, Package-I)
 Reference # CED/TFL **35352** (Dr. M Rizwan Riaz) Dated: 10-09-2020
 Reference of the request letter # DD/SEC-III/PKG-I/LOLMTP/LDA/79 Dated: 22-06-2020

Tension Test Report (Page -2/2)

Date of Test 11-09-2020
 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	0.374	3/8	0.374	0.11	0.110	3800	5000	76200	76240	100200	100400	0.90	11.3	
2	0.372	3/8	0.373	0.11	0.109	3600	4600	72200	72640	92200	92900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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