



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

To,
 Technical Manager
 Shenjiao Engineering Company
 Lahore

Reference # CED/TFL **36217** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 08-04-2021
 Dated: 08-04-2021

Tension Test Report (Page -1/1)

Date of Test 12-04-2021
 Gauge length 2 inches
 Description Plain Steel Bar Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	5.609	30	30.16	----	714.5	26400	42600	362	585	0.45	22.50	(AISI1035 UNSG10350)
2	5.589	30	30.11	----	711.9	31400	52000	433	717	0.60	30.00	(AISI1045 UNSG10450)
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-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Sub Divisional Officer
 Highway Sub Division
 Chunian
 (Dualization of Road from Chunian to Jamber Moor (N-5) Length = 21 km (Phase II Changa Manga Forest Portion Length = 6.50 km) in District Kasur)

Reference # CED/TFL **36318** (Dr. Qasim Khan)
 Reference of the request letter # 02/C

Dated: 07-04-2021
 Dated: 19-01-2021

Tension Test Report (Page -1/1)

Date of Test 12-04-2021
 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	0.380	3	0.377	0.11	0.112	3700	5000	74200	73050	100200	98800	0.90	11.3	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Shahid Engineers
Faisalabad
(Apex Mall Satiana Road, Faisalabad)(Rana Riasat Ali)

Reference # CED/TFL **36319** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 08-04-2021
Dated: 06-04-2021

Tension Test Report (Page -1/1)

Date of Test 12-04-2021
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	0.410	3/8	0.392	0.11	0.120	4700	5500	94200	85980	110200	100700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
 Resident Engineer
 Bahria Town Private Limited
 Storm Water Drain Block K, L & M Phase 2 Ext.

Reference # CED/TFL **36321** (Dr. Qasim Khan)
 Reference of the request letter # QA/QC - Steel 2332

Dated: 09-04-2021
 Dated: 08-04-2021

Tension Test Report (Page -1/1)

Date of Test 12-04-2021
 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	0.368	3	0.371	0.11	0.108	3400	4500	68200	69360	90200	91800	1.20	15.0	FF Steel
2	0.377	3	0.375	0.11	0.111	3700	4900	74200	73690	98200	97600	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														

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UET Lahore, Pakistan.

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To,
 Actg GE (Army) – II
 Gwa
 (Const of 8 x JCOs Flat (G+3), HQ Armd Div at Gwa Cantt)

Reference # CED/TFL **36322** (Dr. Qasim Khan)
 Reference of the request letter # 6000-942/13/E-6

Dated: 09-04-2021
 Dated: 09-04-2021

Tension Test Report (Page -1/1)

Date of Test 12-04-2021
 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	0.381	3/8	0.377	0.11	0.112	3600	6000	72200	70930	120300	118300	0.75	9.4	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
 Resident Engineer
 Orbit Housing
 The Spring Apartment Homes, Lahore

Reference # CED/TFL **36325** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 12-04-2021
 Dated: 12-04-2021

Tension Test Report (Page -1/1)

Date of Test 12-04-2021
 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	0.388	3	0.381	0.11	0.114	3830	4990	76800	74020	100000	96500	1.00	12.5	
2	0.377	3	0.376	0.11	0.111	3570	4700	71600	70990	94200	93500	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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