



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
 AZ Engineering Associates
 Dualization of Road from GT Road (Samma) to Gujrat Dinga Road I/C Gujrat Flyover Length =
 31 kms in District Gujrat

Reference # CED/TFL **1041** (Engr. Amina Rajput)
 Reference of the request letter # RE AZEA/GT-334

Dated: 09-03-2022
 Dated: 08-03-2022

Tension Test Report (Page -1/1)

Date of Test 11-03-2022
 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	3600	5400	72200	71680	108200	107600	1.40	17.5	Moiz Steel
2	0.378	3	0.376	0.11	0.111	3600	5400	72200	71390	108200	107100	1.30	16.3	
3	4.333	10	1.273	1.27	1.274	36200	53600	62900	62650	93100	92800	1.50	18.8	
4	4.304	10	1.269	1.27	1.265	36600	53000	63600	63760	92000	92400	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four 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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2. The above results pertain to sample /samples supplied to this laboratory.
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To,
 Umar Butt
 The University of Lahore
 Lahore Business School (LBS) – The University of Lahore
 (Westcon Construction (Pvt) Ltd.)

Reference # CED/TFL **1045** (Engr. Amina Rajput)
 Reference of the request letter # Nil

Dated: 10-03-2022
 Dated: 09-03-2022

Tension Test Report (Page -1/1)

Date of Test 11-03-2022
 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	4200	4900	84200	84560	98200	98700	0.80	10.0	
2	0.373	3	0.374	0.11	0.110	4200	4800	84200	84360	96200	96500	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Resident Engineer
 NESPAK
 Dualization of Lilla Interchange (M-2) Via P.D Khan to Jhelum I/C Bypasses (2 No's) Length
 128 km, District Jhelum

Reference # CED/TFL **1050** (Dr. M Rizwan Riaz)
 Reference of the request letter # NESPAK/RE/JH/22/38

Dated: 11-03-2022
 Dated: 10-03-2022

Tension Test Report (Page -1/1)

Date of Test 11-03-2022
 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	0.394	3	0.384	0.11	0.116	3100	4700	62200	59060	94200	89600	1.30	16.3	Pak Steel
2	0.390	3	0.382	0.11	0.115	3100	4700	62200	59660	94200	90500	1.30	16.3	
3	0.378	3	0.376	0.11	0.111	3700	4800	74200	73450	96200	95300	1.50	18.8	Mughal Steel
4	0.376	3	0.375	0.11	0.111	3700	4800	74200	73750	96200	95700	1.30	16.3	
5	4.324	10	1.272	1.27	1.271	45200	57800	78500	78380	100400	100300	1.50	18.8	
6	4.316	10	1.271	1.27	1.269	45400	58000	78800	78880	100700	100800	1.50	18.8	
Note: only six samples for tensile and three samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

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To,
 Chief Engineer
 Zaitoon
 New Lahore City, Lahore
 Construction of Jamia Mosque New Lahore City (Phase-III)(M/s ASM Builders and Developers (Pvt) Ltd.)

Reference # CED/TFL **1051** (Dr. Usman Akmal)
 Reference of the request letter # NLC/CE/0117

Dated: 11-03-2022
 Dated: 10-03-2022

Tension Test Report (Page -1/1)

Date of Test 11-03-2022
 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	0.376	3	0.375	0.11	0.110	3640	5370	73000	72680	107600	107300	1.10	13.8	Ittefaq Steel
2	0.374	3	0.374	0.11	0.110	3570	5120	71600	71510	102600	102600	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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