



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
 Dar Engineering
 Punjab Agriculture Food and Durg Authority's Science Enclave, Lahore Pakistan

Reference # CED/TFL **35537** (Dr. M Rizwan Riaz)

Dated: 20-10-2020

Reference of the request letter # DB-78/DAR/RE/ME/2020/0238

Dated: 20-10-2020

Tension Test Report (Page -1/2)

Date of Test 23-10-2020

Gauge length 2 inches

Description Steel Rod 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 (#)	Actual (mm)	Nominal	Actual							
1	0.609	3	9.94	-----	77.5	3000	4300	380	544	0.50	25.0	
2	0.615	3	9.99	-----	78.4	3000	4200	376	526	0.50	25.0	
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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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Tension Test Report (Page – 2/2)

Date of Test 23-10-2020
 Gauge length 2 inches
 Description Flat Bar & MS Angle Steel Strip Tensile Test as per ASTM A-36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Flat Bar	1"x2.6mm	15.30x2.70	41.31	1480	1960	351.46	465.45	0.50	25.00	
2			15.30x2.70	41.31	1400	1880	332.46	446.45	0.50	25.00	
3	Flat Bar	1"x2.6mm	15.70x2.45	38.47	1440	1860	367.25	474.37	0.55	27.50	
4			15.20x2.70	41.04	1400	1720	334.65	411.14	0.55	27.50	
5	MS Angle	2"	25.60x5.55	142.08	5400	7800	372.85	538.56	0.60	30.00	
6			25.60x5.55	142.08	5200	7900	359.04	545.46	0.55	27.50	
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Only Six Samples for Tensile Test											
Bend Test											

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To,
 Resident Engineer
 EA Consulting Pvt Ltd
 Life Style Residency Apartment - Bedian Road

Reference # CED/TFL **35546** (Dr. Waseem Abbass)
 Reference of the request letter # EA/FGEHA/LHE/029

Dated: 22-10-2020
 Dated: 21-10-2020

Tension Test Report (Page -1/1)

Date of Test 23-10-2020
 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	0.391	3/8	0.383	0.11	0.115	3800	5100	76200	72840	102200	97800	1.00	12.5	
2	0.371	3/8	0.373	0.11	0.109	3500	4800	70200	70700	96200	97000	1.30	16.3	
3	0.380	3/8	0.377	0.11	0.112	3500	4800	70200	69020	96200	94700	1.20	15.0	
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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
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To,
 Resident Engineer
 NESPAK Jv TrukPak
 Residence Construction Supervision for Establishment of Dera Ghazi Khan Institute of
 Cardiology

Reference # CED/TFL **35549** (Dr. Waseem Abbass)

Dated: 23-10-2020

Reference of the request letter # 4161/RE/SFMKB/DGK/085

Dated: 22-10-2020

Tension Test Report (Page -1/1)

Date of Test 23-10-2020

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	0.378	3	0.376	0.11	0.111	4000	5000	80200	79280	100200	99100	1.10	13.8	Mughal Steel
2	0.372	3	0.373	0.11	0.109	4000	5200	80200	80610	104200	104800	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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