



**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/Team Leader  
 Prime Engineering Consultancy  
 Kallurkot Bridge Project  
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan  
 (Pak Steel)  
 Reference # CED/TFL **34426** (Dr. Waseem Abbass) Dated: 06-01-2020  
 Reference of the request letter # KK-DIK—BR-PJ/2019/108 Dated: 04-01-2020

**Tension Test Report** (Page -1/2)

Date of Test 08-01-2020  
 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 <sup>2</sup> )		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	4.245	32	32.02	1.25	1.248	42000	56000	74075	74190	98766	99000	1.50	18.8	
2	4.251	32	32.04	1.25	1.250	42000	55800	74075	74080	98413	98500	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
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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 Prime Engineering Consultancy  
 Kallurkot Bridge Project  
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan  
 (Pak Steel)  
 Reference # CED/TFL **34426** (Dr. Waseem Abbass) Dated: 06-01-2020  
 Reference of the request letter # KK-DIK—BR-PJ/2019/106 Dated: 04-01-2020

**Tension Test Report** (Page -2/2)

Date of Test 08-01-2020  
 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 <sup>2</sup> )		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	4.163	32	31.70	1.25	1.224	40200	54200	70900	72420	95591	97700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Infra Dev Works, IVY Green Sector-Z DHA Ph-VIII (M/s MCC Ruba)

Reference # CED/TFL **34433** (Dr. Waseem Abbass)  
Reference of the request letter # 408/241/E/Lab/812/2252

Dated: 03-01-2020  
Dated: 01-01-2020

**Tension Test Report** (Page -1/1)

Date of Test 08-01-2020  
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 <sup>2</sup> )		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	4.288	10	1.267	1.27	1.260	36200	58400	62900	63310	101400	102200	1.40	17.5	City Steel
2	4.297	10	1.268	1.27	1.263	36000	57800	62500	62820	100400	100900	1.30	16.3	
3	5.265	11	1.404	1.56	1.548	43600	70400	61600	62100	99500	100300	1.10	13.8	
4	5.213	11	1.397	1.56	1.532	42800	70400	60500	61570	99500	101300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only four samples for tensile and two samples for bend test</b>														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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To,  
 Sub Divisional Officer  
 Public Health Engg: S.Division  
 Phoolnagar  
 (R.C.C Sewer Pipe at Construction of Sullage Carrier for Ultimate Disposal Phool Nagar City  
 Tehsil Pattoki Distt: Kasur  
 Reference # CED/TFL **34436** (Dr. Waseem Abbass)      Dated: 07-01-2020  
 Reference of the request letter # 204      Dated: 01-01-2020

**Tension Test Report** (Page -1/1)

Date of Test                      08-01-2020  
 Gauge length                    8 inches  
 Description                      Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in <sup>2</sup> )		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	0.376	0.11	0.111	4100	5200	82200	81560	104200	103500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

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

Reference # CED/TFL **34438** (Dr. Waseem Abbass)

Dated: 07-01-2020

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1030

Dated: 06-01-2020

**Tension Test Report** (Page -1/1)

Date of Test 08-01-2020

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 <sup>2</sup> )		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	0.416	10	10.02	0.12	0.122	3500	5600	64301	63160	102881	101100	1.40	17.5	
2	0.409	10	9.94	0.12	0.120	3600	5600	66138	65930	102881	102600	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Const of Mosque Sector-C, DHA Ph-IX - (M/s Zain Saad)

Reference # CED/TFL **34441** (Dr. Waseem Abbass)  
Reference of the request letter # 408/241/E/Lab/821/014

Dated: 07-01-2020  
Dated: 07-01-2020

**Tension Test Report** (Page -1/1)

Date of Test 08-01-2020  
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 <sup>2</sup> )		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	0.360	3	0.367	0.11	0.106	3600	4700	72200	74890	94200	97800	0.80	10.0	S.J Steel
2	0.367	3	0.371	0.11	0.108	3700	4800	74200	75520	96200	98000	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,  
 Resident Engineer  
 NESPAK  
 Infrastructure Works of DHA Housing Scheme Gujranwala Package - 1C  
 (Construction of Drain 1182Rft) (FF Steel)

Reference # CED/TFL **34444** (Dr. Waseem Abbass)  
 Reference of the request letter # 4055/13/SA/07/487

Dated: 07-01-2020  
 Dated: 07-01-2020

**Tension Test Report** (Page -1/1)

Date of Test 08-01-2020  
 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 <sup>2</sup> )		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	5200	74200	73000	104200	102600	1.00	12.5	
2	0.381	3	0.378	0.11	0.112	3700	5300	74200	72840	106200	104400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Dia Bar Bend Test Through 180° is Satisfactory														

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