



**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  
 EA Consulting (Pvt) Ltd  
 Sukkur – Multan Motorway Project  
 Section - III  
 (IIL Lahore)

Reference # CED/TFL **33202** (Dr. Qasim Khan)  
 Reference of the request letter # CRE/EA/M.P-III/408-2019

Dated: 09-05-2019  
 Dated: 06-05-2019

**Tension Test Report** (Page – 1/1)

Date of Test 17-05-2019  
 Gauge length 2 inches  
 Description Stainless Steel Pipe Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Stainless Steel Pipe	26.60x1.10	29.26	1760	2240	590.08	751.00	0.60	30.00	
2		26.50x1.10	29.15	1720	2200	578.84	740.38	0.60	30.00	
<b>Only Two Samples for Tensile Test</b>										
<b>Bend Test</b>										

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

Note:

- 1- You can See your reports On Internet in the following web site  
[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
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**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  
 REC  
 SBB Bridge & Approach Roads Zahirpir

Reference # CED/TFL **33205** (Dr. Qasim Khan)  
 Reference of the request letter # SBBB/TE/2019/1286

Dated: 09-05-2019  
 Dated: 03-05-2019

**Tension Test Report** (Page – 1/1)

Date of Test 17-05-2019  
 Gauge length 2 inches  
 Description W Beam Guard Rail, Guard Rail Post & Backup Plate Strip Tensile  
 Test as per AASHTOO A-180

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W Beam Guard Rail	2.65x0.290	0.77	2800	3500	3643.46	4554.33	0.50	25.00	
2		2.66x0.290	0.77	2700	3500	3500.13	4537.21	0.65	32.50	
3	Guard Rail Post	2.66x0.520	1.38	4900	6600	3542.51	4771.54	0.60	30.00	
4		2.66x0.520	1.38	4800	6500	3470.21	4699.25	0.60	30.00	
5	Backup Plate	2.67x0.475	1.27	6600	7900	5204.02	6229.06	0.45	22.50	
6		2.68x0.475	1.27	6700	7900	5263.16	6205.81	0.45	22.50	
<b>Only Six Samples for Tensile Test</b>										
<b>Bend Test</b>										

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

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**University of Engineering and Technology Lahore, 54890**  
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To,  
Resident Engineer  
EA Consulting (Pvt) Ltd  
Sukkur – Multan Motorway Project  
Scrtion - III

Reference # CED/TFL **33207** (Dr. Qasim Khan)  
Reference of the request letter # RE/EA/M.P-III/411-2019

Dated: 09-05-2019

Dated: 09-05-2019

**Bend Test Report** (Page – 1/1)

Date of Test      17-05-2019  
Gauge length      -----  
Description        Guard Rail Bend Test

<b>Bend Test</b>
Strip taken from Guard Rail Bend Test Through 180° is Satisfactory
Strip taken from Guard Rail Bend Test Through 180° is Satisfactory
Strip taken from Guard Rail Bend Test Through 180° is Satisfactory
Strip taken from Guard Rail Bend Test Through 180° is Satisfactory
<b>Only four samples for bend test</b>

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

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**STRUCTURAL ENGINEERING DIVISION**  
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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Sub Divisional Officer  
 Building Sub Division No. 9  
 Lahore  
 (Construction Provincial Police Line of Punjab Highway Patrol at Jia Bagga, Lahore (First Floor))  
 Reference # CED/TFL **33240** (Dr. Qasim Khan)      Dated: 16-05-2019  
 Reference of the request letter # 49/9<sup>th</sup>      Dated: 27-04-2019

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

Date of Test                      17-05-2019  
 Gauge length                    8 inches  
 Description                      Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		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	0.417	3/8	0.395	0.11	0.123	4400	5700	88200	79120	114300	102500	0.80	10.0	
2	0.422	3/8	0.397	0.11	0.124	4600	6100	92200	81790	122300	108500	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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**University of Engineering and Technology Lahore, 54890**  
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To,  
 University Engineer  
 University of Sargodha  
 Extension of Chemistry Department & Extension of Physics Department, University of Sargodha  
 (M/s T.M.C)

Reference # CED/TFL **33241** (Dr. Qasim Khan)  
 Reference of the request letter # SU/P.D(W)/14934

Dated: 16-05-2019  
 Dated: 14-05-2019

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

Date of Test 17-05-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		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	0.373	38	0.374	0.11	0.110	3700	4800	74200	74370	96200	96500	1.20	15.0	
2	0.367	3/8	0.370	0.11	0.108	3400	4600	68200	69530	92200	94100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

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

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

Ref: CED/TFL/05/33243

Dated: 16-05-19

To  
Director Technical  
Kangyegangsi Post-Tensioning Systems  
Construction of 4-Lane Bridge Across River Indus Linking Layyah with Taunsa  
Including 2-Lane Approach Road and Training Works  
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/05/33243 (Page – 1/2))

Reference to your Letter No. KY/CL/19/13, Dated: 15/05/2019 on the subject cited above. One Hydraulic Jack No. KY-401 as received by us has been calibrated. The results are tabulated as under:

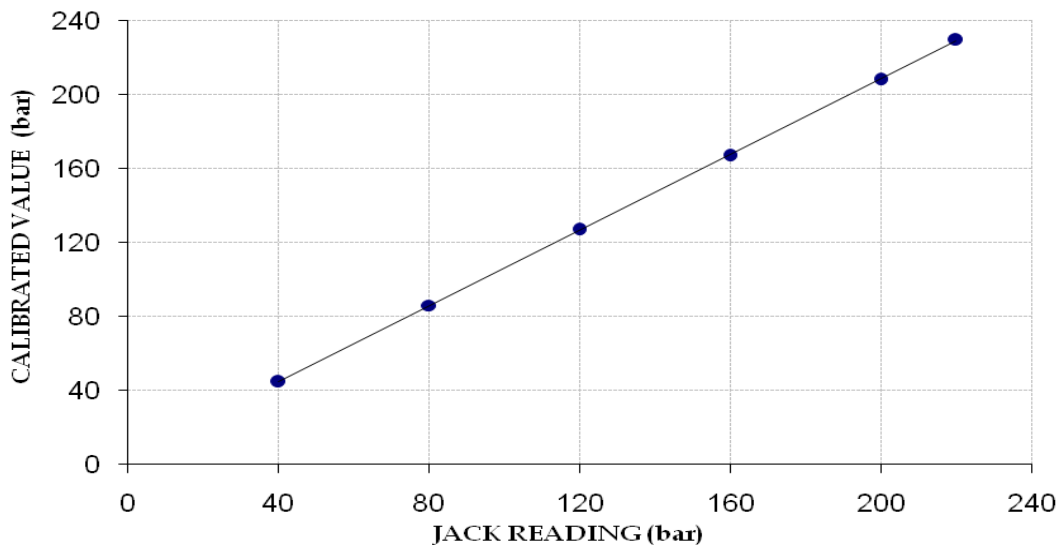
**Total Range : Zero - 700 (bar)**  
**Calibrated Range : Zero - 220 (bar)**

Hydraulic Jack Reading (bar)	40	80	120	160	200	220
Calibrated Load (Kg)	36000	69400	102400	134800	168000	185200
Calibrated Pressure (bar)	44.60	85.97	126.85	166.98	208.11	229.42

The Ram Area of Jack = 791.68 cm<sup>2</sup>

**Calibration Curve For Jack No. KY-401**

**Calibrated Value (bar) = (1.023 x Jack Reading (bar)) + 3.815**



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

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

Ref: CED/TFL/05/33243

Dated: 16-05-19

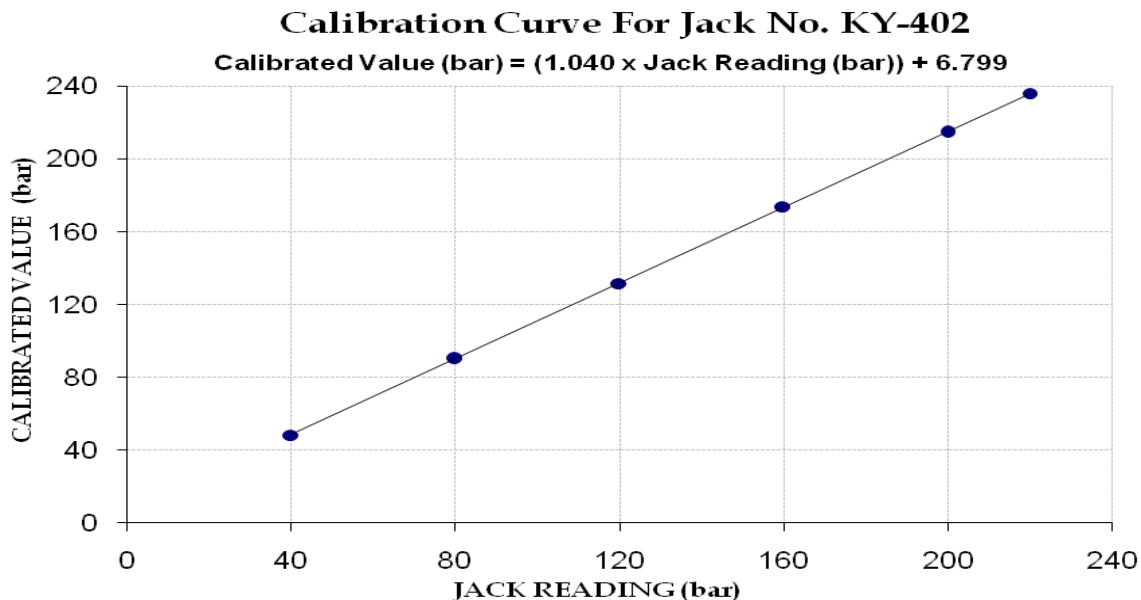
To  
Director Technical  
Kangyegangsi Post-Tensioning Systems  
Construction of 4-Lane Bridge Across River Indus Linking Layyah with Taunsa  
Including 2-Lane Approach Road and Training Works  
Subject: - CALIBRATION OF HYDRAULIC JACK (MARK: TFL/05/33243 (Page – 2/2))

Reference to your Letter No. KY/CL/19/13, Dated: 15/05/2019 on the subject cited above. One Hydraulic Jack No. KY-402 as received by us has been calibrated. The results are tabulated as under:

**Total Range : Zero - 700 (bar)**  
**Calibrated Range : Zero - 220 (bar)**

Hydraulic Jack Reading (bar)	40	80	120	160	200	220
Calibrated Load (Kg)	39000	72800	106200	140200	173200	190400
Calibrated Pressure (bar)	48.31	90.18	131.56	173.67	214.55	235.86

The Ram Area of Jack = 791.68 cm<sup>2</sup>



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

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**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  
 (Heat No. P-782– Kamran Steel)

Reference # CED/TFL **33244** (Dr.Qasim Khan) Dated: 16-05-2019  
 Reference of the request letter # DB-78/DAR/RE/ME/2019/0194 Dated: 14-05-2019

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

Date of Test 17-05-2019  
 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	0.407	3	0.391	0.11	0.120	4300	5600	86200	79140	112300	103100	0.90	11.3	
2	0.363	3	0.368	0.11	0.107	3100	4600	62200	64090	92200	95100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

Note:

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

To,  
M/S Mansoor Mazhar & Associates  
Lahore  
(Parkview Housing Society Multan Road, Lahore)

Reference # CED/TFL **33245** (Dr. Qasim Khan)  
Reference of the request letter # Nil

Dated: 16-05-2019  
Dated: 16-05-2019

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

Date of Test 17-05-2019  
Gauge length 8 inches  
Description Deformed Steel Bar Tensile and Bend Test

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	0.393	3	0.383	0.11	0.115	3500	4700	70200	66820	94200	89800	1.30	16.3	
2	0.394	3	0.384	0.11	0.116	3700	4900	74200	70420	98200	93300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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

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

To,  
 Junior Research Officer-I  
 Building Research Station  
 Lahore  
 (Mughal Steel)

Reference # CED/TFL **33248** (Dr. Qasim Khan)  
 Reference of the request letter # 154-R/1087

Dated: 16-05-2019  
 Dated: 30-04-2019

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

Date of Test 17-05-2019  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile and Bend Test

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	3800	4700	76200	79070	94200	97800	1.10	13.8	
2	0.359	3	0.367	0.11	0.106	3700	4700	74200	77240	94200	98200	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														

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

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

To,  
 Junior Research Officer-I  
 Building Research Station  
 Lahore  
 (Mughal Steel)

Reference # CED/TFL **33249, 250** (Dr. Qasim Khan)  
 Reference of the request letter # 154-R/1089

Dated: 16-05-2019  
 Dated: 30-04-2019

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

Date of Test 17-05-2019  
 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	Grade
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.368	3	0.371	0.11	0.108	2600	4200	52100	52930	84200	85500	1.60	20.0	40
2	0.364	3	0.369	0.11	0.107	2600	4200	52100	53540	84200	86500	1.30	16.3	
3	0.370	3	0.372	0.11	0.109	3500	4700	70200	70930	94200	95300	0.90	11.3	60
4	0.373	3	0.374	0.11	0.110	3600	4800	72200	72310	96200	96500	0.90	11.3	
5	4.393	10	1.282	1.27	1.291	42800	53400	74300	73060	92700	91200	1.80	22.5	60
6	4.334	10	1.274	1.27	1.274	43200	53800	75000	74740	93400	93100	1.60	20.0	
<b>Note: only six samples for tensile and three samples for bend test</b>														
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														

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

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

To,  
 Assistant Engineer/SDO (Civil)  
 University of Okara  
 (1. Vertical Extension 2<sup>nd</sup> Floor on Academic Block, 2. Vertical Extension 1<sup>st</sup> Floor on Student Service Center, 3. Vertical Extension 1<sup>ST</sup> Floor on Student Hostel Building at University of Okara)  
 Reference # CED/TFL **33253** (Dr. Qasim Khan) Dated: 16-05-2019  
 Reference of the request letter # 299 Dated: 14-05-2019

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

Date of Test 17-05-2019  
 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	0.378	3	0.376	0.11	0.111	3600	4900	72200	71330	98200	97100	0.90	11.3	
2	0.366	3	0.370	0.11	0.108	3200	4500	64200	65550	90200	92200	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
<b>Bend Test</b>														
#3 Bar Bend Test Through 180° is Satisfactory														

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

Note:

- 1- You can See your reports On Internet in the following web site  
[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports)
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,  
 General Manager (Projects)  
 A.S Enterprises  
 (Style Textile Mills)(AA Associates)(Afco)

Reference # CED/TFL **33254** (Dr. Qasim Khan)  
 Reference of the request letter # USD/ASE/04

Dated: 16-05-2019  
 Dated: 16-05-2019

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

Date of Test 17-05-2019  
 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	0.405	10	9.89	0.11	0.119	3700	4900	74200	68470	98200	90700	1.10	13.8	
2	0.385	10	9.65	0.11	0.113	3400	4500	68200	66150	90200	87600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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														

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

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