



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

To,
 Assistant Works Manager
 Pakistan Railways
 PR/Bridge Workshop, Jhelum
 (Gate Leaves (RWP Division))
 Reference # CED/TFL **32424** (Dr. Usman Akmal)
 Reference of the request letter # 196-S/103

Dated: 14-01-2019
 Dated: 11-01-2019

Tension Test Report (Page – 1/1)

Date of Test 18-01-2019
 Gauge length 2 inches
 Description Steel Structure Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)										
1	M.S Angle	2 ¹ / ₂ x2 ¹ / ₂ x3/8x12	26.50x10.40	275.60	13200	19100	469.85	679.87	0.50	25.00	
2		2 ¹ / ₂ x2 ¹ / ₂ x3/8x12	26.50x10.40	275.60	13000	19000	462.74	676.31	0.50	25.00	
3	M.S Plate	4x1/4x15	26.80x5.90	158.12	5000	7400	310.21	459.11	0.70	35.00	
4		4x1/4x15	26.80x5.90	158.12	5300	7700	328.82	477.72	0.70	35.00	
5	M.S Plate	4x1/16x15	26.70x1.50	40.05	680	1240	166.56	303.73	0.80	40.00	
6		4x1/16x15	26.70x1.50	40.05	720	1240	176.36	303.73	0.80	40.00	
7	M.S Flat	1 ¹ / ₂ x1/4x15	18.50x5.80	107.30	2800	4600	255.99	420.56	0.50	25.00	
8		1 ¹ / ₂ x1/4x15	18.50x5.80	107.30	3000	5100	274.28	466.27	0.50	25.00	
Only Eight Samples for Tensile Test											
Bend Test											

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
 X.E.N Tamirat Committee
 Anjum Himayat-I-Islam
 Remaning Works of Construction of D-Plaza Anjum Himayat-I-Islam, Lahore

Reference # CED/TFL **32432** (Dr. Usman Akmal)
 Reference of the request letter # AHI/TM.966

Dated: 15-01-2019
 Dated: 14-01-2019

Tension Test Report (Page -1/1)

Date of Test 17-01-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	3200	5050	64200	63700	101200	100600	1.10	13.8	
2	0.369	3	0.372	0.11	0.109	3200	5000	64200	65000	100200	101600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Resident Engineer
H&A Associates, Boya Project

Reference # CED/TFL **32436** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 15-01-2019

Dated: 15-01-2019

Tension Test Report (Page – 1/1)

Date of Test 17-01-2019

Gauge length -----

Description Barbed Wire & Razor Wire Tensile Test

Sr. No.	Diameter of Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	1.90	120	1.18	Barbed Wire
2	1.19	80	0.78	
3	3.20	680	6.67	Razor Wire
4	3.20	640	6.28	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only Four Samples for Test				

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
M/S Defence Housing Authority.
Lahore Cantt
(Const. Of DHA Business Hub at DHA Ph-VIII)(M/s Kingcrete)

Reference # CED/TFL **32439** (Dr. Usman Akmal)
Reference of the request letter # 408/241/E/Lab/408/2579

Dated: 15-01-2019
Dated: 15-01-2019

Tension Test Report (Page – 1/1)

Date of Test 16-01-2019
Gauge length 2 inches
Description MS Pipe Steel Strip Tensile and Bend Test as per ASTM A53

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	10	25.40x5.70	144.78	6100	7500	413.32	508.18	0.50	25.00	
-	10	24.20x5.65	136.73	6100	7500	437.66	538.10	0.50	25.00	
-	12	25.50x6.40	163.20	6500	8400	390.72	504.93	0.60	30.00	
-	12	25.60x6.40	163.84	6200	8500	371.23	508.94	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile and Two Samples for Bend Test										
Bend Test										
Strip Taken from MS Pipe 10" Dia Bend Test Through 180° is Satisfactory										
Strip Taken from MS Pipe 12" Dia Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Jr. Engineer (C) KCP (W&S)
 Pakistan Atomic Energy Commission
 Jauharabad

Reference # CED/TFL **32440** (Dr. Usman Akmal) Dated: 15-01-2019
 Reference of the request letter # KCP(W&S)-CFPP-(MOP)/2018 Dated: 15-01-2019

Tension Test Report (Page -1/1)

Date of Test 17-01-2019
 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	0.389	3/8	0.382	0.11	0.114	3400	4200	68200	65530	84200	81000	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Sub Divisional Officer
 Building Sub Division No. 2
 Faisalabad
 (1. Construction of Additional Block 10 Rooms at Govt: College for WQomen District Faisalabad
 2. Up-Gradation of Govt: Boys High School 209/RB to Higher Level District Faisalabad)
 Reference # CED/TFL **32441** (Dr. Usman Akmal) Dated: 16-01-2019
 Reference of the request letter # 840 Dated: 12-12-2018

Tension Test Report (Page -1/1)

Date of Test 17-01-2019
 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	0.387	3/8	0.381	0.11	0.114	2500	3600	50100	48430	72200	69800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,
 Project Manager
 Izhar Construction (Pvt) Ltd
 Construction of (Ecolean Pakistan Pvt. Ltd Sundar Estate) Lahore

Reference # CED/TFL **32443** (Dr. Usman Akmal)
 Reference of the request letter # ICPL/EC/032

Dated: 16-01-2019
 Dated: 16-01-2019

Tension Test Report (Page -1/1)

Date of Test 17-01-2019
 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	0.370	3/8	0.372	0.11	0.109	3300	4400	66200	66960	88200	89300	1.20	15.0	
2	0.378	3/8	0.376	0.11	0.111	3600	4700	72200	71440	94200	93300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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
UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK
 Development of Kartarpur Corridor
 (Mughal Steel)

Reference # CED/TFL **32444** (Dr. Usman Akmal)
 Reference of the request letter # 3444/DKC/St. Test/SM/08

Dated: 16-01-2019
 Dated: 14-01-2019

Tension Test Report (Page -1/1)

Date of Test 17-01-2019
 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 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	0.411	3	0.392	0.11	0.121	3300	5400	66200	60270	108200	98700	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
Chief Resident Engineer
ESS-I-AAR – CSCEC
PKM Project Sukkur-Multan Motorway

Reference # CED/TFL **32445** (Dr. Usman Akmal)
Reference of the request letter # RE/2019/04

Dated: 16-01-2019
Dated: 15-01-2019

Tension Test Report (Page – 1/1)

Date of Test 17-01-2019
Gauge length 2 inches
Description Gabin Mesh Wire Tensile Test

Sr. No.	Diameter / size	Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Marks
	(mm)						
1	3.00	7.07	300	416.35	0.3	15	Perimeter Wire
2	3.00	7.07	300	416.35	0.4	20	
3	2.40	4.52	160	346.96	0.3	15	Body Wire
4	2.40	4.52	160	346.96	0.3	15	
5	2.20	3.80	140	361.29	0.4	20	Tying Wire
6	2.20	3.80	140	361.29	0.3	15	
Only Six Samples for Tensile Test							

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,
Chief Resident Engineer
ESS-I-AAR – CSCEC
PKM Project Sukkur-Multan Motorway

Reference # CED/TFL **32446** (Dr. Usman Akmal)
Reference of the request letter # RE/2019/01

Dated: 16-01-2019
Dated: 15-01-2019

Tension Test Report (Page – 1/1)

Date of Test 17-01-2019
Gauge length 2 inches
Description Gabin Mesh Wire Tensile Test

Sr. No.	Diameter / size	Area	Breaking Load	Ultimate Stress	Marks
	(mm)	(mm ²)	(kg)	(MPa)	
1	3.00	7.07	300	416.35	Perimeter Wire
2	3.00	7.07	320	444.11	
3	2.40	4.52	160	346.96	Body Wire
4	2.40	4.52	160	346.96	
5	2.20	3.80	140	361.29	Tying Wire
6	2.20	3.80	140	361.29	
Only Six Samples for Tensile Test					

I/C Testing Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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To,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue Project, 17-A Cooper Road Lahore

Reference # CED/TFL **32447** (Dr. Usman Akmal)
 Reference of the request letter # CONC-20190116

Dated: 16-01-2019
 Dated: 16-01-2019

Tension Test Report (Page -1/1)

Date of Test 17-01-2019
 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 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	4.203	10	1.254	1.27	1.236	40800	50400	70900	72790	87500	90000	1.80	22.5	Mughal Steel
2	4.203	10	1.254	1.27	1.235	44600	55000	77500	79580	95500	98200	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Sr. Engineer (Civil), SWP
 Pakistan Atomic Energy Commission
 D.G. Khan

Reference # CED/TFL **32448** (Dr. Usman Akmal)
 Reference of the request letter # SWP/W(2285/2018)

Dated: 16-01-2019
 Dated: 15-01-2019

Tension Test Report (Page -1/1)

Date of Test 17-01-2019
 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 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	0.376	0.11	0.111	3200	5000	64200	63690	100200	99600	1.20	15.0	
2	0.369	3	0.371	0.11	0.108	3200	4900	64200	65080	98200	99700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Ch. M. Arshad/Haji Ahmad Din
 Education Complex Okara
 (Madina Steel Casting Mills)

Reference # CED/TFL **32450** (Dr. Usman Akmal)
 Reference of the request letter # 1542/SDO/OK

Dated: 16-01-2019
 Dated: 16-01-2019

Tension Test Report (Page -1/1)

Date of Test 17-01-2019
 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 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	3500	5600	70200	69850	112300	111800	1.10	13.8	
2	0.374	3	0.374	0.11	0.110	3600	5600	72200	72150	112300	112300	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
 Project Manager
 Roots International Schools
 Roots International School Project Palm Tree Campus Sialkot

Reference # CED/TFL **32451** (Dr. Usman Akmal)
 Reference of the request letter # RIS/SB/SKT1501201901

Dated: 16-01-2019
 Dated: 15-01-2019

Tension Test Report (Page -1/1)

Date of Test 17-01-2019
 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	0.400	3/8	0.387	0.11	0.117	3600	5100	72200	67570	102200	95800	1.40	17.5	
2	0.394	3/8	0.384	0.11	0.116	3600	5000	72200	68490	100200	95200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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
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
- 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,
M/s Icon Construction Services
Johar Town, Lahore
(Construction of S.M Farhad Residence at Lake City, Raiwind Road, Lahore)

Reference # CED/TFL **32452** (Dr. Usman Akmal)
Reference of the request letter # Icon/81

Dated: 16-01-2019
Dated: 16-01-2019

Tension Test Report (Page -1/1)

Date of Test 17-01-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in 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	0.358	3/8	0.366	0.11	0.105	3600	4900	72200	75300	98200	102500	1.20	15.0	
2	0.375	3/8	0.375	0.11	0.110	4300	5300	86200	85920	106200	105900	1.00	12.5	
3	0.355	3/8	0.365	0.11	0.104	4200	5100	84200	88670	102200	107700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile test														
Bend Test														

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,
 Principal
 DPS & College, Kasur
 Construction of Additional Accommodation (Senior Boys Wing & Junior Wing) at District
 Public School & College, Kasur

Reference # CED/TFL **32455** (Dr. Usman Akmal)
 Reference of the request letter # 927

Dated: 16-01-2019
 Dated: 14-01-2019

Tension Test Report (Page -1/1)

Date of Test 17-01-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in 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	0.382	0.11	0.115	2800	4300	56200	53760	86200	82600	1.60	20.0	
2	0.389	3/8	0.382	0.11	0.114	2900	4500	58200	55880	90200	86800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
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

To,
 Brig. Triq Amin
 Etoile Constructors
 359 A Block, Pjphase 5, DHA Lahore

Reference # CED/TFL **32456, 32477** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 16-01-2019
 Dated: 16-01-2019

Tension Test Report (Page -1/1)

Date of Test 17-01-2019
 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 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	0.408	10	9.93	0.11	0.120	3600	5050	72200	66160	101200	92900	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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