



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

To,
 District Officer (I&S)
 District Council Narowal
 (Construction of Boundary Wall & Gate Stadium Narowal Road Zararwal)

Reference # CED/TFL **32421** (Dr. Waseem Abbas)
 Reference of the request letter # DCN/DO(I&S)1305

Dated: 14-01-2019
 Dated: 24-12-2018

Tension Test Report (Page -1/1)

Date of Test 15-01-2019
 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	0.368	3/8	0.371	0.11	0.108	4500	6000	90200	91710	120300	122300	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:

- 1- You can See your reports On Internet in the following web site
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- 2- The above results pertain to sample /samples supplied to this laboratory.
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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
 G.M. (Planning & Admin)
 Kraftcon (Pvt) Limited
 Dimaond Fabrics Limited at Raiwind

Reference # CED/TFL **32422** (Dr. Waseem Abbas)
 Reference of the request letter # kpl/19/014

Dated: 14-01-2019
 Dated: 12-01-2019

Tension Test Report (Page -1/1)

Date of Test 15-01-2019
 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	0.415	3/8	0.394	0.11	0.122	3700	5900	74200	66780	118300	106500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S AYQ Developers Pvt. (Ltd)
Lahore

Reference # CED/TFL **32425** (Dr. Waseem Abbas)
Reference of the request letter # Nil

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

Tension Test Report (Page -1/1)

Date of Test 15-01-2019
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	0.372	3/8	0.373	0.11	0.109	3300	4700	66200	66500	94200	94800	1.30	16.3	
2	0.361	3/8	0.368	0.11	0.106	3200	4700	64200	66430	94200	97600	1.20	15.0	
3	0.376	3/8	0.375	0.11	0.111	3300	4800	66200	65770	96200	95700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

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To,
 General Manager
 A.S Enterprises
 (US Apparel & Textile Mills Ltd)(AA Associates)(Afco)

Reference # CED/TFL **32426** (Dr. Waseem Abbas)
 Reference of the request letter # US/ASE/07

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

Tension Test Report (Page -1/1)

Date of Test 15-01-2019
 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	0.401	10	9.84	0.11	0.118	4500	5600	90200	84220	112300	104900	1.10	13.8	
2	0.402	10	9.85	0.11	0.118	4300	5300	86200	80170	106200	98900	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Sub Divisional Officer
 Development Sub Division-I
 Bahawalnagar
 (Rehabilitation of Malik Baranch and Gajjiani Disty, Construction of V.R Bridges of Malik Baranch and Gajjiani Disty)

Reference # CED/TFL **32427** (Dr. Waseem Abbas)
 Reference of the request letter # 06

Dated: 14-01-2019
 Dated: 07-01-2019

Tension Test Report (Page -1/1)

Date of Test 15-01-2019
 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	0.372	3	0.373	0.11	0.109	2700	4400	54100	54400	88200	88700	1.60	20.0	
2	0.393	3	0.383	0.11	0.115	2900	4500	58200	55400	90200	86000	1.10	13.8	
3	4.344	10	1.275	1.27	1.277	25200	45400	43800	43500	78800	78400	1.90	23.8	
4	4.308	10	1.270	1.27	1.266	26200	46600	45500	45600	80900	81100	1.80	22.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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To,
M/S M. Saleem Construction Company
Sheikhupura

Reference # CED/TFL **32428** (Dr. Waseem Abbas)
Reference of the request letter # Nil

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

Tension Test Report (Page -1/1)

Date of Test 15-01-2019
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	0.374	3/8	0.374	0.11	0.110	3600	4800	72200	72090	96200	96200	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 Laboratories
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
Resident Engineer
RENARDET S.A ((M-4), Package-II)
Construction of Faisalabad-Khanewal Motorway (M-4) Project, Package-II, Jamani-Shorkot,
Section 2B (105+600 – 107+600 L/S)(M/s China Railway First Group, Ltd)

Reference # CED/TFL **32429** (Dr. Waseem Abbas)
Reference of the request letter # RE/M-4/2B/2019/514

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

Tension Test Report (Page – 1/3)

Date of Test 15-01-2019
Gauge length -----
Description Chain Link Fence Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter of Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.20	680	6.67	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only One Sample for Test				

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
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To,
Resident Engineer
RENARDET S.A ((M-4), Package-II)
Construction of Faisalabad-Khanewal Motorway (M-4) Project, Package-II, Jamani-Shorkot,
Section 2B (103+600 – 105+600 L/S)(M/s China Railway First Group, Ltd)

Reference # CED/TFL **32429** (Dr. Waseem Abbas)
Reference of the request letter # RE/M-4/2B/2019/515

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

Tension Test Report (Page – 2/3)

Date of Test 15-01-2019
Gauge length -----
Description Chain Link Fence Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter of Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.20	520	5.10	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only One Sample for Test				

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
RENARDET S.A ((M-4), Package-II)
Construction of Faisalabad-Khanewal Motorway (M-4) Project, Package-II, Jamani-Shorkot,
Section 2B (98+000 – 997+500 L/S & 96+200 to 97+500 R/S)(M/s China Railway First Group,
Ltd)
Reference # CED/TFL **32429** (Dr. Waseem Abbas) Dated: 14-01-2019
Reference of the request letter # RE/M-4/2B/2019/516 Dated: 14-01-2019

Tension Test Report (Page – 3/3)

Date of Test 15-01-2019
Gauge length -----
Description Chain Link Fence Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter of Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.20	500	4.91	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only One Sample for Test				

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Constr of Swimming Pool J-Block, DHA Ph-I)(M/s Al-Burhan)

Reference # CED/TFL **32431** (Dr. Waseem Abbas)
Reference of the request letter # 408/241/E/Lab/405/002

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

Tension Test Report (Page -1/1)

Date of Test 15-01-2019
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	0.363	3	0.369	0.11	0.107	3800	5000	76200	78490	100200	103300	1.00	12.5	FF Steel
2	0.364	3	0.369	0.11	0.107	3900	5100	78200	80420	102200	105200	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,
 Managing Director
 Excellent Builders
 Construction of nM1 Coling Tower Area-1
 (Sitara Chemical Industries Ltd. Faisalabad)

Reference # CED/TFL **32434** (Dr. Waseem Abbas)
 Reference of the request letter # EB/04/2019

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

Tension Test Report (Page -1/1)

Date of Test 15p-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	0.381	3/8	0.378	0.11	0.112	4300	5300	86200	84550	106200	104300	1.00	12.5	
2	0.381	3/8	0.377	0.11	0.112	4300	5400	86200	84680	108200	106400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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