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/12/32305 Dated: 27-12-18

To
Resident Engineer (RRWP-II)
PEAS Consulting (Pvt) Ltd
Rawat- Rawalpindi Widening Project (RRWP) – Phase – II
Conversion of 02-Lane Lai and Sawan Bridge to 04-Lane Bridges

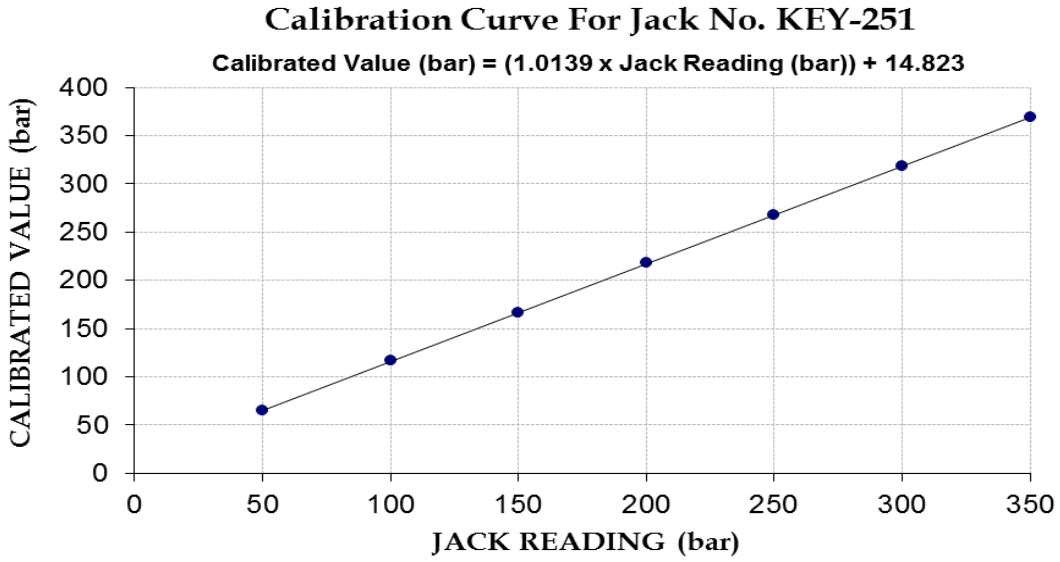
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/32305)** (Page – 1/2)

Reference to your Letter No. PEAS/NHA/LSB/2018/127, Dated: 17/12/2018 on the subject cited above. One Hydraulic Jack No. KEY-251 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 700 (bar)
Calibrated Range : Zero - 350 (bar)

Hydraulic Jack Reading (bar)	**50**	**100**	**150**	**200**	**250**	**300**	**350**
Calibrated Load (Kg)	**30400**	**55200**	**78400**	**102400**	**126200**	**150000**	**173800**
Calibrated Pressure (bar)	**64.64**	**117.37**	**166.70**	**217.73**	**268.34**	**318.95**	**369.55**

The Ram Area of Jack = 461.22 cm^2



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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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/12/32305 Dated: 27-12-18

To
Resident Engineer (RRWP-II)
PEAS Consulting (Pvt) Ltd
Rawat- Rawalpindi Widening Project (RRWP) – Phase – II
Conversion of 02-Lane Lai and Sawan Bridge to 04-Lane Bridges

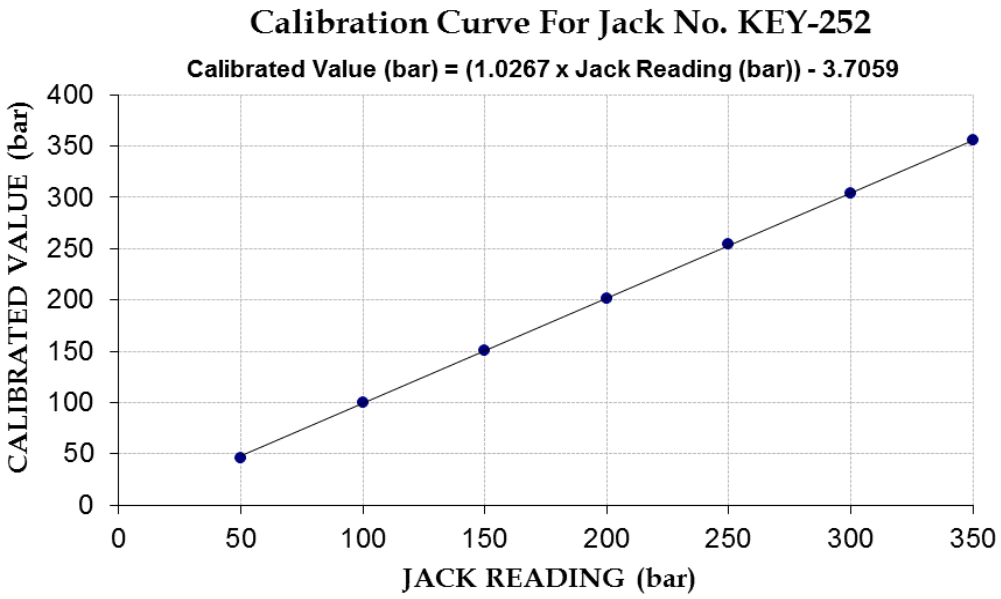
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/12/32305)** (Page – 2/2)

Reference to your Letter No. PEAS/NHA/LSB/2018/127, Dated: 17/12/2018 on the subject cited above. One Hydraulic Jack No. KEY-252 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 700 (bar)
Calibrated Range : Zero - 350 (bar)

Hydraulic Jack Reading (bar)	50	100	150	200	250	300	350
Calibrated Load (Kg)	21800	47200	70600	94800	119400	143000	167000
Calibrated Pressure (bar)	46.35	100.36	150.12	201.57	253.88	304.06	355.09

The Ram Area of Jack = 461.22 cm^2



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/01/32335 Dated: 01-01-19

To
M/SShaheen Traders
Lahore

Subject: **SUSPENSION CLAMP FOR LOAD TEST**

Reference to yourletter No.ST-UET-SC-02-0119, dated01.01.2019on the subjectcitedabove.One Suspension Clamp for SuspecsionFitting for ACSR Rail as received by us for load test has been tested. The results are tabulated as under.

Failure Load	Failure Type
11400 kg	**Clamp Failure**

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,
Resident Engineer
RENARDET S.A ((M-4), Package-II)
Construction of Faisalabad-Khanewal Motorway (M-4) Project, Package-II, Jamani-Shorkot, Section 2B (97+500 – 99+500 R/S)

Reference # CED/TFL **32337** (Engr. Amina Rajput) Dated: 01-01-2019
Reference of the request letter # RE/M-4/2B/2018/503 Dated: 31-12-2018

Tension Test Report (Page – 1/3)

Date of Test 03-01-2019
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.

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,
Resident Engineer
RENARDET S.A ((M-4), Package-II)
Construction of Faisalabad-Khanewal Motorway (M-4) Project, Package-II, Jamani-Shorkot, Section 2B (99+500 – 101+500 R/S)

Reference # CED/TFL **32337** (Engr. Amina Rajput) Dated: 01-01-2019
Reference of the request letter # RE/M-4/2B/2018/502 Dated: 31-12-2018

Tension Test Report

Date of Test 03-01-2019
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**	**550**	**5.40**	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
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 (101+500 – 103+500 R/S)

Reference # CED/TFL **32337** (Engr. Amina Rajput) Dated: 01-01-2019
Reference of the request letter # RE/M-4/2B/2018/501 Dated: 31-12-2018

Tension Test Report (Page – 3/3)

Date of Test 03-01-2019
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**	**600**	**5.89**	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
Resident Engineer
RENARDET S.A ((M-4), Package-IIIB)
Construction of Faisalabad to Khanewal Motorway (M-4) Project, Package-IIIB, Dinpur-Khanewal Section 3B

Reference # CED/TFL **32341** (Engr. Amina Rajput) Dated: 01-01-2019
Reference of the request letter # RE/M-4/3B/2018/378 Dated: 27-12-2018

Tension Test Report (Page -1/1)

Date of Test 03-01-2018
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.462	10	10.56	0.11	0.136	4300	6300	86200	69860	126300	102400	1.30	16.3	
2	0.450	10	10.42	0.11	0.132	3900	5900	78200	65030	118300	98400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180º 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 Shoain International
Rawalpindi

Reference # CED/TFL **32334** (Engr. Amina Rajput) Dated: 01-01-2019
Reference of the request letter # Nil Dated: ;01-01-2019

Tension Test Report (Page – 1/1)

Date of Test 03-01-2019
Gauge length -------
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Yield Load	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	(kg)	
1	**13**	**7.62**	**---------**	**12200**	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Madina Steel Casting Mills
Gujranwala
G-60

Reference # CED/TFL **32345** (Engr. Amina Rajput) Dated: 02-01-2019
Reference of the request letter # Nil Dated: 02-01-2019

Tension Test Report (Page -1/2)

Date of Test 03-01-2018
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.372	3	0.373	0.11	0.109	3100	5300	62200	62500	106200	106900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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 Madina Steel Casting Mills
Gujranwala
G-40

Reference # CED/TFL **32345** (Engr. Amina Rajput) Dated: 02-01-2019
Reference of the request letter # Nil Dated: 02-01-2019

Tension Test Report (Page -2/2)

Date of Test 03-01-2018
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.376	3	0.375	0.11	0.110	2800	4500	56200	55870	90200	89800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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 Kabir Engineering Services
Sargodha

Reference # CED/TFL **32350** (Engr. Amina Rajput) Dated: 02-01-2019
Reference of the request letter # 76-Civil-58 Dated: 02-01-2019

Tension Test Report (Page -1/1)

Date of Test 03-01-2018
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.385	3	0.379	0.11	0.113	3100	4350	62200	60420	87200	84800	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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,
Sub Divisional Officer
Buildings Sub Division
Sohawa
(Construction of Tehsil Complex at Dina District Jhelum)

Reference # CED/TFL **32351** (Engr. Amina Rajput) Dated: 02-01-2019
Reference of the request letter # 244/SOH Dated: 05-11-2018

Tension Test Report (Page -1/1)

Date of Test 03-01-2018
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.378	3/8	0.376	0.11	0.111	4100	5100	82200	81340	102200	101200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
3/8**"** Dia Bar Bend Test Through 180º 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,
Manager Coordination
Izhar Construction (Pvt) Ltd
Pilling Works of Renacon Pharma Limited, Faisalabad

Reference # CED/TFL **32352** (Dr. Nauman Khurram) Dated: 02-01-2019
Reference of the request letter # ICPL/CONST-RPL/18/129 Dated: 02-01-2019

Tension Test Report (Page -1/1)

Date of Test 03-01-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.364	10	9.37	0.11	0.107	3800	5200	76200	78330	104200	107200	0.90	11.3	
2	0.366	10	9.40	0.11	0.108	3700	4700	74200	75830	94200	96400	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180º 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,
A.M Purchase
Zephyr Textile Limited
Lahore

Reference # CED/TFL **32353** (Engr. Amina Rajput) Dated: 02-01-2019
Reference of the request letter # Nil Dated: 02-01-2019

Tension Test Report (Page -1/1)

Date of Test 03-01-2018
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.362	9	9.34	0.11	0.106	3400	4800	68200	70500	96200	99600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
9mm Dia Bar Bend Test Through 180º 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 Defence Housing Authority.
Lahore Cantt
(Const. of Defence Community Club at Sector-K DHA Ph-VI)(M/s Maaksons)

Reference # CED/TFL **32354** (Engr. Amina Rajput) Dated: 02-01-2019
Reference of the request letter # 408/241/E/Lab/389/1443 Dated: 02-01-2019

Tension Test Report (Page -1/1)

Date of Test 03-01-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.364	3	0.369	0.11	0.107	3100	4600	62200	63810	92200	94700	1.10	13.8	Kamran Steel
2	0.368	3	0.371	0.11	0.108	3600	4750	72200	73420	95200	96900	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º 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