



**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  
 Okara  
 (Const: of Additional Class Rooms Under DFID (UK) Project in Punjab (One at GPS Chak # 37-  
 A/4-LTehsil & District Okara)  
 Reference # CED/TFL **34359** (Dr. Qasim Khan) Dated: 24-12-2019  
 Reference of the request letter # 563/SDO/OK Dated: 17-12-2019

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

Date of Test 26-12-2019  
 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	0.325	3/8	0.349	0.11	0.096	2700	4300	54100	62230	86200	99200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

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

Note:

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2. The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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To,  
Technical Manager  
Shenjiao Engineering Company  
Tarbela 4th Extension HP Project  
(Power Construction Corporation of China Ltd)

Reference # CED/TFL **34362** (Dr. Qasim Khan)  
Reference of the request letter # Nil

Dated: 23-12-2019

Dated: 23-12-2019

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

Date of Test 26-12-2019  
Gauge length --  
Description Round Bar Slippage Test

Sr. No.	Dia	Failure Load	Mode of Failure	Remarks
	(mm)	(kg)	---	
1	36	41000	Thread Failure	
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
<b>Note: only one sample for test</b>				

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

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To,  
 Executive Engineer (UCET)  
 University of Sargodha  
 (Construction Student Hostel at University College of Engineering & Technology, University of Sargodha)

Reference # CED/TFL **34364** (Dr. Qasim Khan)  
 Reference of the request letter # SU/XEN(UCET)/538

Dated: 24-12-2019  
 Dated: 19-12-2019

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

Date of Test 26-12-2019  
 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	0.350	3/8	0.362	0.11	0.103	3300	4500	66200	70760	90200	96500	1.30	16.3	
2	0.349	3/8	0.361	0.11	0.102	3600	4900	72200	77440	98200	105400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend 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,  
 Executive Engineer (UCET)  
 University of Sargodha  
 (Construction Student Academic Block (Electrical Block at University College of Engineering &  
 Technology, University of Sargodha)

Reference # CED/TFL **34364** (Dr. Qasim Khan)  
 Reference of the request letter # SU/XEN(UCET)/540

Dated: 24-12-2019  
 Dated: 19-12-2019

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

Date of Test 26-12-2019  
 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	0.370	3/8	0.372	0.11	0.109	3000	4200	60200	60750	84200	85100	1.20	15.0	
2	0.371	3/8	0.373	0.11	0.109	3100	4200	62200	62680	84200	85000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile test</b>														
Bend Test														

**I/C Testing Laboratoires**  
**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**

To,  
 M/S Defence Housing Authority.  
 Lahore Cantt  
 (Const of Mess at OHWT Block 'C', DHA Ph-IX Town - (M/s Eagle))

Reference # CED/TFL **34368** (Dr. Qasim Khan)  
 Reference of the request letter # 408/241/E/Lab/807/08

Dated: 24-12-2019  
 Dated: 24-12-2019

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

Date of Test 26-12-2019  
 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	0.361	3	0.368	0.11	0.106	4000	5000	80200	83000	100200	103800	0.90	11.3	Mughal Steel
2	0.362	3	0.368	0.11	0.106	3900	5000	78200	80790	100200	103600	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.**

Note:

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

To,  
 Senior Manager Civil - OTL  
 Orient  
 Orient Sqaure Hostel Tower Johar Town, Lahore  
 (Afco Steel)

Reference # CED/TFL **34369** (Dr. Qasim Khan) Dated: 24-12-2019  
 Reference of the request letter # ORIENT/AFco/Hostel Tower/Steel/025 Dated: 24-12-2019

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

Date of Test 26-12-2019  
 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	4.090	32	31.43	1.25	1.202	33400	53400	58907	61230	94181	97900	1.50	18.8	
2	4.088	32	31.42	1.25	1.202	33800	55000	59612	62000	97002	100900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<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.**

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

Ref: CED/TFL/12/34371

Dated: 24-12-19

Dated of Test: 26-12-19

To  
**Manager - Geotech Division**  
**Firm Decon International Private Limited**  
**+660kV HVDC Transmission Line Project from Matiari to Lahore-Pakistan**

**Subject: - TEST RESULT REPORT FOR WELDED JOINT STRENGTH**

Reference to your letter no. FDIL-2075-Lab/001, dated: 24/12/2019 on the above mentioned subject. One # 10 sample welded for load test as received by us has been tested and results are given below:

Sr. No.	Dia (#)	Breaking load of rebar (kg)	Remarks
1	10	50400 kg	Crack was initiated at 45000 kg and rebar attached to it get ruptured at 50400 kg

Witness by Zafar Ullah Khan (DECON)

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

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**Pakistan. Ph: 92-42-99029202**

To,  
M/S Defence Housing Authority.  
Lahore Cantt  
(Proposed Commerical Plaza, DRGCC, Ph-III, DHA Ph-VI (M/s Construct))

Reference # CED/TFL **34373** (Dr. Qasim Khan)  
Reference of the request letter # 408/241/E/Lab/804/4320

Dated: 26-12-2019  
Dated: 20-12-2019

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

Date of Test 26-12-2019  
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	0.372	3	0.373	0.11	0.109	3200	4900	64200	64500	98200	98800	1.30	16.3	Kamran Steel
2	0.366	3	0.370	0.11	0.107	3300	5100	66200	67690	102200	104700	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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