



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 - Khanewal Motorway (M-4) Project Package-III, Dinpur-Khanewal,
 Section-3B (D & L International)(M/s Xinjiang Beixin Road & Bridge Group Co, Ltd)

Reference # CED/TFL **33580** (Dr. Safer Abbas)
 Reference of the request letter # RE/M-4/3B/2019/468

Dated: 17-07-2019
 Dated: 16-07-2019

Tension Test Report (Page – 1/1)

Date of Test 24-07-2019
 Gauge length 2 inches
 Description W-Section Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Section	2.99x0.28	0.84	3000	4300	3583.37	5136.17	0.50	25.00	
2		2.99x0.28	0.84	3100	4500	3702.82	5375.06	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and Two Samples for Bend Test										
Bend Test										
Strip Taken from W-Section Bend Test Through 180° is Satisfactory										
Strip Taken from W-Section Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Project Manger
TBEA Co. Ltd
Design, Installation, Testing and Commissioning of 500 kV Transmission Line 3RD Circuit
Jamshoro-Moro-Dadu to Rahim Yar Khan (Lot-II)

Reference # CED/TFL **33604** (Dr. Safer Abbas)
Reference of the request letter # JMDR-TL-001-927

Dated: 22-07-2019
Dated: 17-07-2019

Tension Test Report (Page – 1/1)

Date of Test 24-07-2019
Gauge length -----
Description Barbad Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter of Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	2.6	280	2.75	
2	2.6	360	3.53	
3	2.6	320	3.14	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only Three Samples for Test				

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Ref: CED/TFL/07/33606

Dated: 19-07-19

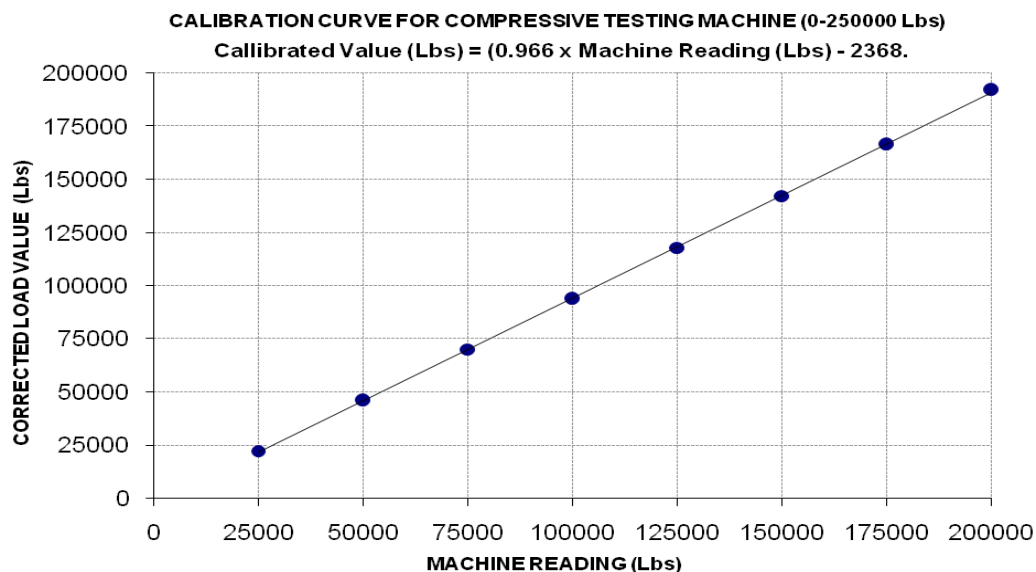
To
Chief Executive Officer
Pak Matiari-Lahore Transmission Company (Pvt) Ltd
+600kV Matiari-Lahore HVDC Transmission Project Lot-06 Camp near Khairpur
Tamiwali

Subject:- **CALIBRATION OF COMPRESSION TESTING MACHINE OF 250000 Lbs (MARK: CED/TFL/07/33606) (Page -1/1)**

Reference to your letter No. MLTC-UET-19-2476, dated: 19/07/2019 on the subject cited above. One Compression Testing Machine (Manual Operated) has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero - 250000 (lbs)
Calibrated Rang : Zero - 200000 (lbs)

Machine Reading	25000	50000	75000	100000	125000	150000	175000	200000
Corrected Load Value	22376	45929	70223	93902	117978	142233	166389	192038



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To,
Chief Resident Engineer
Osmani & Company (Pvt) Ltd
Swat Motorway Project

Reference # CED/TFL **33610** (Dr. Safer Abbas)
Reference of the request letter # 315/CRE/QAT/SMP/2019

Dated: 22-07-2019
Dated: 19-07-2019

Tension Test Report (Page – 1/1)

Date of Test 24-07-2019

Gauge length -----

Description Chain Link Wire & Tension Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter of Single Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.20	400	3.92	Chain Link Wire
2	3.20	400	3.92	
3	3.20	400	3.92	
4	3.30	700	6.87	Tension Wire
5	3.30	800	7.85	
6	3.30	700	6.87	
-	-	-	-	
Only Six Samples for Test				

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Executive Engineer
 State Bank of Pakistan
 Civil Works for BDS at SBP BSC (Bank) Faisalabad

Reference # CED/TFL **33617** (Dr. Safer Abbas)
 Reference of the request letter # ENGG./101877/2019

Dated: 23-07-2019
 Dated: 22-07-2019

Tension Test Report (Page -1/1)

Date of Test 24-07-2019
 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	0.367	3	0.370	0.11	0.108	4200	5100	84200	85910	102200	104400	0.80	10.0	
2	0.364	3	0.369	0.11	0.107	4100	5100	82200	84550	102200	105200	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 - Civil
 Kohinoor Maple Leaf Group
 Construction of Admin Block, Al-Aleem Medical College, Gulab Devi Chest Hospital Lahore

Reference # CED/TFL **33618** (Dr. Safer Abbas)
 Reference of the request letter # Nil

Dated: 23-07-2019
 Dated: 23-07-2019

Tension Test Report (Page -1/1)

Date of Test 24-07-2019
 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	3600	5300	72200	71650	106200	105500	1.30	16.3	
2	0.379	3	0.376	0.11	0.111	3500	5300	70200	69300	106200	105000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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UET Lahore, Pakistan.

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To,
 Resident Engineer
 G3 Engineering Consultants (Pvt) Ltd
 PSIC House, Davis Road, Lahore

Reference # CED/TFL **33620** (Dr. Safer Abbas)
 Reference of the request letter # G3/0161

Dated: 23-07-2019
 Dated: 23-07-2019

Tension Test Report (Page -1/1)

Date of Test 24-07-2019
 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	0.373	3/8	0.373	0.11	0.110	3300	4600	66200	66410	92200	92600	1.50	18.8	
2	0.375	3/8	0.374	0.11	0.110	3500	4700	70200	70050	94200	94100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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Ref: CED/TFL/07/33621

Dated: 24-07-19

To
Resident Engineer
ABM Engineers
Nizampur-Khohat Road

Subject: - TEST RESULT REPORT FOR BEARING DEVICE (PAD)

Reference to your letter no. ABM/RE/NKR/19/501, Dated: 23/07/2019 on the above mentioned subject. One Elastomeric Bearing Rubber Pad (EBRP) has been received by us. The same was tested and results are given below.

Laboratory : **TEST FLOOR LAB**
Machine : **SHIMADZU**
Sample No. : **1/1**
Dimensions of EBRP : **510 x 328 x 51.44 mm**

TEST RESULTS - SHORT DURATION

Load Duration : **5+5 minutes**
Test Load : **80 TONS**
Bulging Pattern : **Uniform Buldging.**
Laminated Parallelism : **Parallel**
Cracks : **No crack was observed**

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