



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/07/33623

Dated: 24-07-19

To
DCRE
Zeeruk International (Pvt) Ltd
Lahore Sialkot Motorway Project

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

Reference to your letter no. LSMP/RE-II/St/19/413, Dated: 22/07/2019 on the above mentioned subject. Two Elastomeric Bearing Rubber Pads (EBRP) (Source: Interbuna) have been received by us. The same was tested and results are given below.

Laboratory : TEST FLOOR LAB
Machine : SHIMADZU
Sample No. : 1/2
Dimensions of EBRP : 500 x 450 x 76.40 mm

TEST RESULTS - SHORT DURATION

Load Duration : 5+5 minutes
Test Load : 196 TONS
Bulging Pattern : Uniform Buldging.
Laminated Parallelism : Parallel
Cracks : No crack was observed

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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 (M/s China Railway First Group)

Reference # CED/TFL **33625** (Dr. Ali Ahmed)
Reference of the request letter # RE/M-4/2B/2019/568

Dated: 24-07-2019
Dated: 22-07-2019

Tension Test Report (Page – 1/1)

Date of Test 29-07-2019
Gauge length -----
Description Chain Link Face Wire Tensile Test as per AASHTO-M-181

Sr. No.	Diameter Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	3.30	4.00	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only One Sample for Test			

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Const. of OHWT & Tube Well X-Block Pha-III)(M/s N.A Associates)

Reference # CED/TFL **33631** (Dr. Ali Ahmed)
Reference of the request letter # 408/241/E/Lab/647/223

Dated: 26-07-2019
Dated: 22-07-2019

Tension Test Report (Page -1/1)

Date of Test 29-07-2019
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	3100	4700	62200	63380	94200	96100	1.20	15.0	Ittefaq Steel
2	0.366	3	0.370	0.11	0.107	3400	4700	68200	69740	94200	96400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
Resident Engineer
NESPAK – Zeeruk (Jv)
China Pakistan Economic Corridor (CPEC) Western Route Hakla (no M1) to D.I.Khan
Motorway – Rehmani Khel to Kot Balian – Package IIB

Reference # CED/TFL **33633** (Dr. Ali Ahmed)

Dated: 26-07-2019

Reference of the request letter # RE/NESPAK/P-2B/CPEC-WR/881

Dated: 22-07-2019

Tension Test Report (Page – 1/1)

Date of Test 29-07-2019

Gauge length -----

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

Sr. No.	Diameter Wire	Breaking Load	Remarks
	(mm)	(kN)	
1	3.20	4.05	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Only Six Samples for Test			

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/07/33634

Dated: 26-07-2019

To,
M/S Unze Trading Pvt Ltd
Lahore
(Leasing out of MEPCO PC Pole Plant Lodhran)

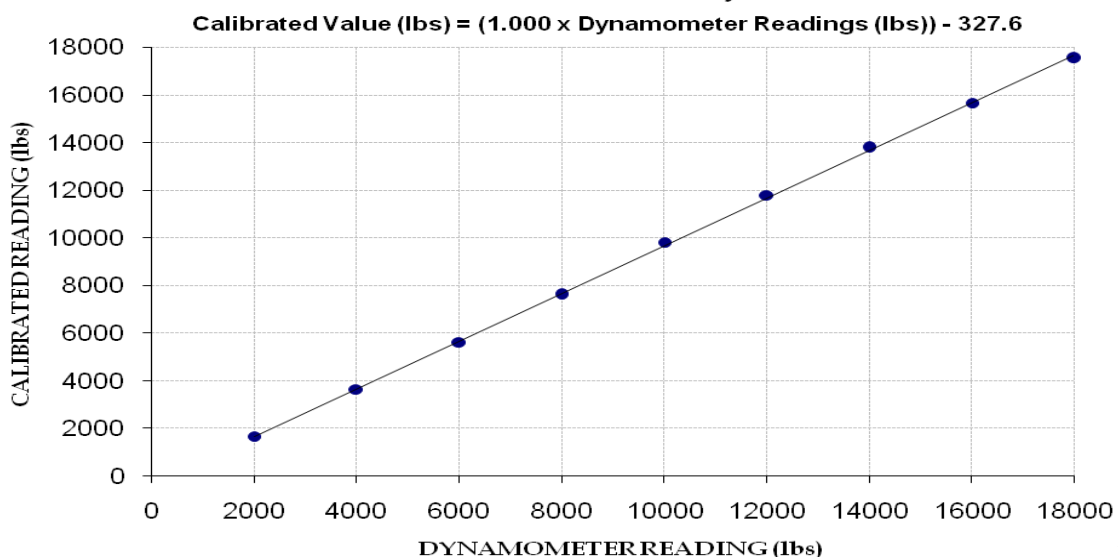
Subject: - CALIBRATION OF DYNAMOMETER (MARK: TFL/07/33634)

Ref: Your letter No. UNZE/370/2019, dated: 26/07/2019 on the subject cited above. One Dynamometer (Pat No. 3,277,705) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 20000 (lbs)
Calibrated Range : Zero - 18000 (lbs)

Dynamometer Readings (lbs)		2000	4000	6000	8000	10000	12000	14000	16000	18000
Calibrated Readings	(kg)	750	1650	2550	3450	4450	5350	6250	7100	7950
	(lbs)	1653	3638	5622	7606	9810	11795	13779	15653	17527

Calibration Curve for Dynamometer



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UET Lahore, Pakistan.

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To,
 Sub-Divisional Officer (Civil)
 GC University Faisalabad
 (Construction of Sports Facilities. Multipurpose Hall/ Gymnasium at New Campus Government
 College University, Faisalabad)

Reference # CED/TFL **33635** (Dr. Ali Ahmed)
 Reference of the request letter # GCUF/EC/1157

Dated: 26-07-2019
 Dated: 25-07-2019

Tension Test Report (Page -1/1)

Date of Test 29-07-2019
 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	0.364	3/8	0.369	0.11	0.107	3700	5100	74200	76180	102200	105000	0.80	10.0	
2	0.365	3/8	0.369	0.11	0.107	3900	5100	78200	80190	102200	104900	0.75	9.4	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,
 Executive Engineer
 Highway Division
 Narowal

(Construction of Road from Qila Ahmed abad Dhamthal Road to Kotli Sangayvia Cheema and Lala (Length – 6.60 km) Part - 1 L – 2.50 km) in District Narowal

Reference # CED/TFL **33636** (Dr. Ali Ahmed)

Dated: 26-07-2019

Reference of the request letter # 1134/CB

Dated: 19-07-2019

Tension Test Report (Page -1/1)

Date of Test

29-07-2019

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	0.382	3/8	0.378	0.11	0.112	2800	4100	56200	54920	82200	80500	1.50	18.8	
2	0.380	3/8	0.377	0.11	0.112	2800	4000	56200	55310	80200	79100	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

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