



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/06/36603
2021

Dated: 18-06-

Dated of Test: 24-06-2021

To
M/S Farooq Khan & Brothers (Pvt) Ltd.
Madress Road, Quetta Cantt

Subject: - CALIBRATION OF DYNAMOMETER (MARK: TFL/06/36603) (Page -1/1)

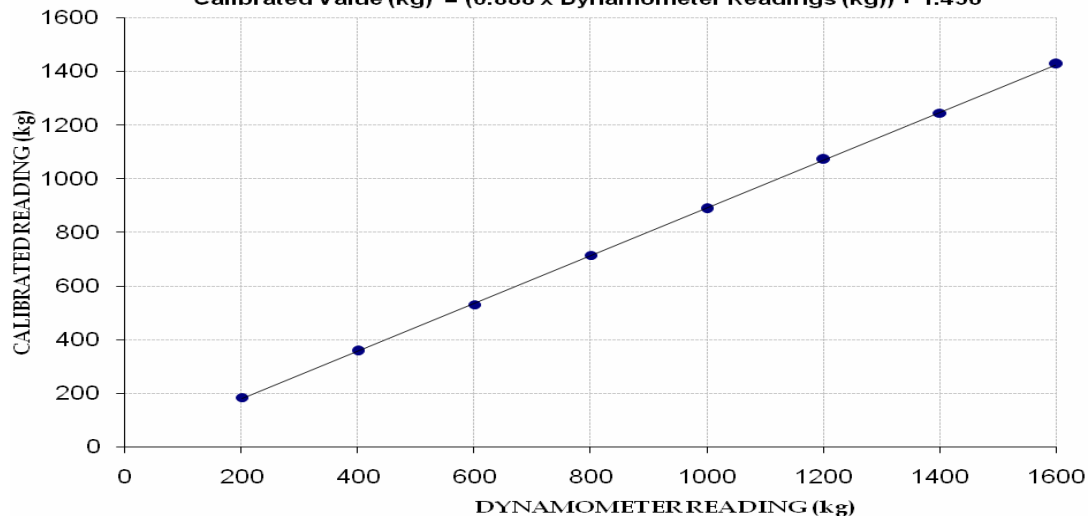
Ref: Your letter No. Nil, dated: 17/06/2021 on the subject cited above. One Dynamometer as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 2000 (kg)
Calibrated Range : Zero - 1600 (kg)

Dynamometer Readings (kg)	200	400	600	800	1000	1200	1400	1600
Calibrated Readings (kN)	1.80	3.50	5.20	7.00	8.70	10.50	12.20	14.00
Calibrated Readings (kg)	183	357	530	714	887	1070	1244	1427

Calibration Curve for Dynamometer

Calibrated Value (kg) = (0.888 x Dynamometer Readings (kg)) + 1.456



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Ref: CED/TFL/06/36606

Dated: 21-06-2021

Dated of Test: 24-06-2021

To
Material Engineer
Project Implementation Consultants (PICs)
Jalalpur Irrigation Project (JIP)

Subject: - TEST RESULT REPORT FOR BEARING DEVICE (PAD) (Page # 1/1)

Reference to your letter no. JIPIC//TECH/CRE/249, Dated: 14/06/2021 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 : **304 x 202 x 67.73 mm**

TEST RESULTS - SHORT DURATION

Load Duration : **5+5 minutes**
Test Load : **160 TONS**
Bulging Pattern : **Uniform Buldging between the plates**
Laminated Parallelism : **Parallel**
Cracks : **No crack was observed**

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Ref: CED/TFL/06/36615

Dated: 22-06-2021

Dated of Test: 24-06-2021

To
Project Manager
CCECC-MATRACON-HABIB Joint Venture
Re-Construction of & Up-gradation of Main Runway (18L/36R) at Allama Iqbal International Airport (AIIAP), Lahore

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]**

Reference to your letter No. AIIAP/CCECC-MATRACON-HABIB JV/2021/452, dated 21.06.2021 on the subject cited above. One R.C.C. Pipe as received by us has been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	18 (450)	7.77	7.32	1.93	1.50	2.57	10200	17800	2052	3581

I/C Testing Laboratories
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To,
M/S Ghazi Construction Company
Lahore
(Beacon House School Okara Campus)

Reference # CED/TFL **36621** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 23-06-2021
Dated: 23-06-2021

Tension Test Report (Page -1/1)

Date of Test 24-06-2021
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	0.388	3	0.381	0.11	0.114	3500	4900	70200	67680	98200	94800	1.10	13.8	Mughal Steel
2	0.388	3	0.381	0.11	0.114	3700	4800	74200	71550	96200	92900	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,
 Manager Civil Works
 The University of Lahore
 Lahore Business School
 (Westcon Construction Private Limited)

Reference # CED/TFL **36628** (Dr. Usman Akmal)
 Reference of the request letter # Nil

Dated: 23-06-2021
 Dated: 23-06-2021

Tension Test Report (Page -1/1)

Date of Test 24-06-2021
 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	0.368	3	0.371	0.11	0.108	3800	5000	76200	77430	100200	101900	1.20	15.0	
2	0.363	3	0.369	0.11	0.107	3600	4700	72200	74320	94200	97100	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,
M/S Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **36630** (Dr. Usman Akmal)
Reference of the request letter # IHPL/Steel/092

Dated: 23-06-2021
Dated: 21-06-2021

Tension Test Report (Page -1/2)

Date of Test 24-06-2021
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	0.386	3	0.380	0.11	0.113	3400	5200	68200	66120	104200	101200	1.10	13.8	PCS Steel
2	0.386	3	0.380	0.11	0.113	3400	5200	68200	66100	104200	101100	1.20	15.0	
3	0.392	3	0.383	0.11	0.115	3400	5200	68200	64990	104200	99400	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Ali Hanain Khan (Jr. Engr. Kingcrete) & M. Ali (Co. Engr. TCPL)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Imperium Hospitality (Pvt) Limited
Gulberg II, Lahore

Reference # CED/TFL **36630** (Dr. Usman Akmal)
Reference of the request letter # IHPL/Steel/093

Dated: 23-06-2021

Dated: 21-06-2021

Tension Test Report (Page -2/2)

Date of Test 24-06-2021
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	4.256	10	1.262	1.27	1.251	34800	53000	60400	61320	92000	93400	1.60	20.0	PCS Steel
2	4.245	10	1.260	1.27	1.248	34800	53000	60400	61480	92000	93700	1.60	20.0	
3	4.229	10	1.258	1.27	1.243	34800	52800	60400	61710	91700	93700	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and two samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

Witness by Ali Hanain Khan (Jr. Engr. Kingcrete) & M. Ali (Co. Engr. TCPL)

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