



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/03/36153

Dated: 02-03-2021

Dated of Test: 04-03-2021

To
Resident Engineer
NESPAK
Construction of High Level Bridge over Racy Nullah Tehsil Jand District Attock

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

Reference to your letter no. 3126/RE/ADP/SUJ/03/38, Dated: 09/02/2021 on the above mentioned subject. One Elastomeric Bearing Rubber Pad (EBRP) (20 x 16 x 3 inch) 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 : **509 x 404 x 79.60 mm**

TEST RESULTS – SHORT DURATION

Load Duration : **5+5 minutes**
Test Load : **195 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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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Assistant Resident Engineer
 AR Engineers
 Construction of Jewel -1 Apartment Plaza at Gulberg-3, Lahore

Reference # CED/TFL **36158** (Dr. Usman Akmal)
 Reference of the request letter # ARST-009

Dated: 03-03-2021
 Dated: 03-03-2021

Tension Test Report (Page -1/1)

Date of Test 04-03-2021
 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	0.365	3	0.370	0.11	0.107	3400	4600	68200	69830	92200	94500	1.10	13.8	
2	0.366	3	0.370	0.11	0.107	3400	4600	68200	69750	92200	94400	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
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To,
M/S Defence Housing Authority.
Lahore Cantt
(Const of Addl Rooms at DHA MTL Sector-B Town Ph-IX) – (M/s Tahira Const.)

Reference # CED/TFL **36159** (Dr. Usman Akmal)
Reference of the request letter # 408/241/E/Lab/40/33

Dated: 03-03-2021
Dated: 02-03-2021

Tension Test Report (Page -1/1)

Date of Test 04-03-2021
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	0.374	3	0.374	0.11	0.110	3300	4900	66200	66180	98200	98300	1.10	13.8	Ittefaq Steel
2	0.375	3	0.375	0.11	0.110	3200	4700	64200	64010	94200	94100	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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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
 Resident Engineer
 NESPAK

Establishment of U.E.T Lahore Sub Campus at Narowal – Construction of Boys Hostel (Balance Works)

Reference # CED/TFL **36160** (Dr. Usman Akmal)

Dated: 03-03-2021

Reference of the request letter # 3863/13/SYA/Labtesting/288

Dated: 17-02-2021

Tension Test Report (Page -1/1)

Date of Test 04-03-2021

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	0.369	3	0.371	0.11	0.108	4000	4900	80200	81350	98200	99700	0.90	11.3	SJ Steel
2	0.365	3	0.370	0.11	0.107	3900	4900	78200	80140	98200	100700	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.

Note:

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Test Floor Laboratory
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To,
 Resident Engineer
 NESPAK

Establishment of U.E.T Lahore Sub Campus at Narowal – Construction of Boys Hostel (Balance Works)

Reference # CED/TFL **36161** (Dr. Usman Akmal)

Dated: 03-03-2021

Reference of the request letter # 3863/13/SYA/Labtesting/296

Dated: 26-02-2021

Tension Test Report (Page -1/1)

Date of Test 04-03-2021

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	0.376	3	0.375	0.11	0.110	3800	5200	76200	75880	104200	103900	1.20	15.0	FF Steel
2	0.375	3	0.375	0.11	0.110	3800	5200	76200	76010	104200	104100	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.

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,
 Project Manager
 Q-Link Property Management (Private) Limited
 Construction of Jasmine Grand Mall 2, Orchard Mall and Broadway Heiht-3 Bahria Orchard
 Lahore
 Reference # CED/TFL **36162** (Dr. Usman Akmal) Dated: 03-03-2021
 Reference of the request letter # QL-BO-BH2-LTR-007 Dated: 26-02-2021

Tension Test Report (Page -1/1)

Date of Test 04-03-2021
 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	0.374	3	0.374	0.11	0.110	3200	5300	64200	64120	106200	106200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

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 Vision Engineering Services
Lahore

Reference # CED/TFL **36163** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 03-03-2021

Dated: 03-03-2021

Tension Test Report (Page -1/1)

Date of Test 04-03-2021
Gauge length 8 inches
Description Plain Steel Bar Tensile Test

Sr. No.	Diameter / size	Reduced Dia	Reduced Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	42	35.50	989.798	43600	72200	432.12	715.58	1.30	16.25	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test										
-	-	-	-	-	-	-	-	-	-	
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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To,
 Project Engineer
 NETRACON Technologies (Pvt) Ltd
 Design, Manufacture, Supply, Installation, Testing and Commission of Plant for 500 / 220 / 132
 kV Faisalabad West Substation
 Reference # CED/TFL **36164** (Dr. Qasim Khan) Dated: 03-03-2021
 Reference of the request letter # NTT-HO/FSDW-GS/045 Dated: 03-03-2021

Tension Test Report (Page -1/1)

Date of Test 04-03-2021
 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	0.369	3	0.372	0.11	0.108	3500	4900	70200	71140	98200	99600	1.10	13.8	Kamran Steel
2	0.371	3	0.373	0.11	0.109	3400	4700	68200	68700	94200	95000	1.30	16.3	
3	0.370	3	0.372	0.11	0.109	3400	4700	68200	68930	94200	95300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and three samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Sohaib Ali (Sub Engr. NESPAK)

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
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To,
 Sub Divisional Officer
 Buildings Sub Division
 Depalpur
 (Re-Construction of Dilapidated School Building at Govt: Gils High School Hujra Shah Muqem
 Tehsil Depalpur District Okara)

Reference # CED/TFL **36165** (Dr. Usman Akmal)
 Reference of the request letter # 155/D/SDO(B)

Dated: 03-03-2021
 Dated: 26-02-2021

Tension Test Report (Page -1/1)

Date of Test 04-03-2021
 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	0.366	3/8	0.370	0.11	0.107	4700	6200	94200	96380	124300	127200	0.70	8.8	Islamabad Steel
2	0.361	3/8	0.368	0.11	0.106	4600	6200	92200	95490	124300	128700	0.70	8.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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 CM Engineering (Pvt) Ltd
Lahore
(CMPAK Project Site ID: 52975, 52908, 52933, 52970, 52962)

Reference # CED/TFL **36166** (Dr. Usman Akmal)
Reference of the request letter # CME/Steel/CMPAK/347

Dated: 03-03-2021
Dated: 22-02-2021

Tension Test Report (Page -1/1)

Date of Test 04-03-2021
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 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	0.368	10	9.43	0.12	0.108	3100	4800	56952	63170	88184	97800	1.20	15.0	
2	0.363	10	9.37	0.12	0.107	3000	4800	55115	61900	88184	99100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/s Sunergies
Lahore
(1 MW Solar Plant Installation in HMC Taxtila Rawalpindi)

Reference # CED/TFL **36169** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 04-03-2021
Dated: 04-03-2021

Tension Test Report (Page – 1/1)

Date of Test 04-03-2021
Gauge length 2 inches
Description Aluminum Channel Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kN)	(kN)	(MPa)	(MPa)	(in)		
1	2	26.50x2.00	53.00	10.02	11.35	189.06	214.15	0.10	5.00	
2		27.50x2.00	55.00	10.29	10.90	187.09	198.18	0.10	5.00	
3	3	27.40x2.90	79.46	10.57	13.15	133.02	165.49	0.20	10.00	
4		27.60x2.90	80.04	10.17	12.30	127.06	153.67	0.20	10.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

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