



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/08/33743

Dated: 26-08-19

Date of Test: 06-09-19

To
Resident Engineer
NESPAK
Construction of Khazana Bypass Bridge over River Panjkora District Lowe Dir
Khane

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

Reference to your letter no. 3956/021/NUK/19/183, Dated: 20/08/2019 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 : **506 x 504 x 87.13 mm**

TEST RESULTS - SHORT DURATION

Load Duration : **5+5 minutes**
Test Load : **160 TONS**
Bulging Pattern : **Uniform Buldging.**
Laminated Parallelism : **Parallel**
Cracks : **No crack is observed**

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
 Assistant Resident Engineer
 Prime Engineering Consultancy
 Kallurkot Bridge Project
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan
 (Nomee Steel)
 Reference # CED/TFL **33792** (Dr. Qasim Khan) Dated: 05-09-2019
 Reference of the request letter # KK-DIK—BR-PJ/2019/051 Dated: 04-09-2019

Tension Test Report (Page -1/2)

Date of Test 06-09-2019
 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 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	4.247	32	32.02	1.25	1.248	38200	50800	67373	67450	89595	89700	1.80	22.5	
2	4.275	32	32.13	1.25	1.257	38400	51000	67725	67360	89948	89500	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Assistant Resident Engineer
 Prime Engineering Consultancy
 Kallurkot Bridge Project
 Construction of 4 Lane Bridge over River Indus Connecting Kallur Kot with D.I Khan
 (Abbas Steel)
 Reference # CED/TFL **33792** (Dr. Qasim Khan) Dated: 05-09-2019
 Reference of the request letter # KK-DIK—BR-PJ/2019/050 Dated: 04-09-2019

Tension Test Report (Page -2/2)

Date of Test 06-09-2019
 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 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	4.270	32	32.11	1.25	1.255	38200	57200	67373	67080	100882	100500	1.50	18.8	
2	4.296	32	32.21	1.25	1.263	38800	57200	68431	67730	100882	99900	1.50	18.8	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
32mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer - I
 NESPAK
 (Widening of Aik Moria Pull, Lahore)

Reference # CED/TFL **33793** (Dr. Qasim Khan)
 Reference of the request letter # 3772/AMP/103/MWA/04/40

Dated: 05-09-2019
 Dated: 28-08-2019

Tension Test Report (Page -1/1)

Date of Test 06-09-2019
 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	5.258	11	1.403	1.56	1.546	46200	62800	65300	65880	88800	89600	1.90	23.8	Mughal Steel
2	5.238	11	1.400	1.56	1.540	46200	62400	65300	66140	88200	89400	1.90	23.8	
3	5.089	11	1.380	1.56	1.496	47200	65400	66700	69560	92400	96400	1.40	17.5	Kamran Steel
4	5.077	11	1.378	1.56	1.492	47200	65000	66700	69710	91900	96000	1.40	17.5	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#11 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 NESPAK
 Rural Accessability Programme Phase-I 2018-19 Highway Circle No. 01 & 02, Faisalabad
 (Highway Division, Chiniot)(City UAE)

Reference # CED/TFL **33797** (Dr. Waseem Abbas)
 Reference of the request letter # 3872/RAP/103/AR/01/99

Dated: 05-09-2019
 Dated: 04-09-2019

Tension Test Report (Page -1/1)

Date of Test 06-09-2019
 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	0.411	3	0.392	0.11	0.121	3200	4800	64200	58420	96200	87700	1.40	17.5	
2	0.410	3	0.392	0.11	0.120	3100	4800	62200	56750	96200	87900	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two 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														

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To,
 Chief Resident Engineer, Package-1
 NESPAK
 Construction/ Improvement & Rehabilitation of at Grade Works along Lahore Orange Line Metro Train
 Package-1 (Section-II) from Shalamar Station to Coop Store (Left Side)

Reference # CED/TFL **33799** (Dr. Waseem Abbas)
 Reference of the request letter # 4042/13/FAM/steel-105

Dated: 05-09-2019
 Dated: 02-09-2019

Tension Test Report (Page -1/1)

Date of Test 06-09-2019
 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	4900	62200	63390	98200	100200	1.00	12.5	City UAE
2	0.372	3	0.373	0.11	0.109	3100	4900	62200	62450	98200	98800	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														

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To,
 Resident Engineer
 Orbit Housing
 The Spring Apartment Homes

Reference # CED/TFL **33800** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 06-09-2019
 Dated: 06-09-2019

Tension Test Report (Page -1/1)

Date of Test 06-09-2019
 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	0.370	3	0.372	0.11	0.109	4030	4760	80800	81650	95400	96500	1.10	13.8	
2	0.367	3	0.371	0.11	0.108	4000	4690	80200	81620	94000	95700	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														

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