



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
 NESPAK
 China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (.I. Khan)
 Motorway, Package-3 (Trap to Kot Belian)

Reference # CED/TFL **33213** (Dr. M Rizwan Riaz) Dated: 13-05-2019
 Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/961 Dated: 11-05-2019

Tension Test Report (Page – 1/2)

Date of Test 20-05-2019
 Gauge length 2 inches
 Description I-Beam Steel Strip Tensile Test as per ASTM A36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	I-Beam	14x6	23.25x13.10	304.58	9500	16500	305.98	531.45	0.65	32.50	
2		14x6	23.40x12.90	301.86	9500	16500	308.74	536.23	0.80	40.00	
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-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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To,
Resident Engineer
NESPAK
China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (.I. Khan)
Motorway, Package-3 (Trap to Kot Belian)

Reference # CED/TFL **33213** (Dr. M Rizwan Riaz) Dated: 13-05-2019
Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/961 Dated: 11-05-2019

Weight & Size Test Report (Page – 2/2)

Date of Test 20-05-2019
Gauge length -----
Description I-Beam Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	Depth (d)	Flange Width (b _f)	Flange Thickness (t _f)	Web Thickness (t _w)	Remark
	(inch)	(g)	(mm)	(kg/m)	mm	mm	mm	mm	
1	14x6	6465	82.10	78.75	357.00	154.60	19.00	13.00	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only One Sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
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 NESPAK
 China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (.I. Khan)
 Motorway, Package-3 (Trap to Kot Belian)

Reference # CED/TFL **33215** (Dr. M Rizwan Riaz) Dated: 13-05-2019
 Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/19/960 Dated: 11-05-2019

Tension Test Report (Page – 1/1)

Date of Test 20-05-2019
 Gauge length 2 inches
 Description MS Angle & C-Channel Steel Strip Tensile Test as per ASTM A36

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	MS Angle	50x50x6.4	23.40x6.40	149.76	5800	8400	379.93	550.24	0.70	35.00	
2		50x50x6.4	23.30x6.40	149.12	5300	8100	348.67	532.87	0.65	32.50	
3	MS Angle	38x38x6.4	13.80x6.60	91.08	3100	4800	333.89	517.00	0.65	32.50	
4		38x38x6.4	13.90x6.20	86.18	2900	4500	330.11	512.24	0.65	32.50	
5	C-Channel	125x63	24.00x5.90	141.60	5300	8600	367.18	595.81	0.65	32.50	
6		125x63	24.00x6.20	148.80	5800	8900	382.38	586.75	0.60	30.00	
Only six Samples for Tensile Test											
Bend Test											

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
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To,
 Engineer's Representative
 NESPAK
 Pakistan Kidney & Liver Institute and Research Center Hospital Lahore Package C - I, Phase – 1

Reference # CED/TFL **33220** (Dr. M Rizwan Riaz) Dated: 13-05-2019
 Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-36 Dated: 07-05-2019

Tension Test Report (Page – 1/2)

Date of Test 20-05-2019
 Gauge length 2 inches
 Description MS Seamless Pipe Steel Strip Tensile Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)	(mm)									
1	Seamless Pipe	2	26.60x3.80	101.08	4000	5700	388.21	553.20	0.50	25.00	
2		2	26.60x3.80	101.08	4000	5700	388.21	553.20	0.45	22.50	
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-		-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,
Engineer's Representative
NESPAK
Pakistan Kidney & Liver Institute and Research Center Hospital Lahore Package C - I, Phase – 1

Reference # CED/TFL **33220** (Dr. M Rizwan Riaz) Dated: 13-05-2019
Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-36 Dated: 07-05-2019

Weight & Size Test Report (Page – 2/2)

Date of Test 20-05-2019
Gauge length -----
Description MS Seamless Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	inch	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	1 - 1/4	1475	45.60	3.23	42.60	35.20	3.70	
2	1 – 1/2	1827	45.90	3.98	48.20	40.50	3.85	
3	8	19300	46.10	41.87	219.50	203.10	8.20	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Three Samples for Test								

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To,
 Resident Engineer
 EGC (Pvt) Ltd
 Kuchlak Bypass Additional Work under USAID for Kalat-Quetta-Chaman Section N-25

Reference # CED/TFL **33228** (Dr. M Rizwan Riaz)
 Reference of the request letter # KQC/Add/RE/268

Dated: 14-05-2019
 Dated: 22-04-2019

Tension Test Report (Page – 1/1)

Date of Test 20-05-2019
 Gauge length 2 inches
 Description Steel Plate Steel 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 ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	Pipe	26.50x3.00	79.50	3600	4600	444.23	567.62	0.45	22.50	
2	Pipe	26.50x3.00	79.50	3500	4500	431.89	555.28	0.40	20.00	
3	Sheet	26.40x2.00	52.80	1000	1800	185.80	334.43	0.80	40.00	
4	Sheet	26.40x2.00	52.80	1000	1800	185.80	334.43	0.80	40.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples 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
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/05/33247

Dated: 16-05-19

To
DCRE/RE-1
Zeeruk International (Pvt) Ltd
Lahore Sialkot Motorway Project

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

Reference to your letter no. LSMP/RE-1/2019/797, Dated: 16/05/2019 on the above mentioned subject. One Elastomeric Bearing Rubber Pad (EBRP) (source: Rainbow) 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 : 500 x 452 x 78.60 mm

TEST RESULTS - SHORT DURATION

Load Duration : 5+5 minutes
Test Load : 198 TONS
Bulging Pattern : Slight Non Uniform Bulging.*
Laminated Parallelism : Parallel
Cracks : No crack was observed

* (Remarks : Bulge recovered on load removal)

(Witness by Kamran Tahir (M.E. - Zeerk) & Ghazanfar Ali (M.E LSM - FWO))

I/C Testing Laboratories
UET Lahore, Pakistan.

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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 PM
 Pacecircle
 Construction of pace circle

Reference # CED/TFL **33256** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 17-05-2019
 Dated: 17-05-2019

Tension Test Report (Page -1/1)

Date of Test 20-05-2019
 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	0.367	3/8	0.371	0.11	0.108	3500	4700	70200	71430	94200	96000	1.10	13.8	
2	0.367	3/8	0.371	0.11	0.108	3300	4700	66200	67460	94200	96100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
M/S Latitude Solutions
Lahore
(Bank Al Habib Branch Building at Zahir Pir Rahim Yar Khan)

Reference # CED/TFL **33257** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 17-05-2019
Dated: 17-05-2019

Tension Test Report (Page -1/1)

Date of Test 20-05-2019
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	4600	5300	92200	83970	106200	96800	1.00	12.5	
2	0.410	3	0.392	0.11	0.121	4300	5400	86200	78640	108200	98800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Department of Civil Engineering
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To,
M/S Sui Northern Gas Pipelines Limited
Lahore
(Construction of Rooms and Washrooms at Regional Distribution Office Lahore)

Reference # CED/TFL **33258** (Dr. M Rizwan Riaz)
Reference of the request letter # CC/64/L.A/8 Rooms

Dated: 17-05-2019
Dated: 17-05-2019

Tension Test Report (Page -1/1)

Date of Test 20-04-2019
Gauge length 8 inches
Description Deformed Steel Bar Tensile 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	0.424	3/8	0.398	0.11	0.125	4500	6000	90200	79660	120300	106300	1.00	12.5	
2	0.416	3/8	0.395	0.11	0.122	4500	6000	90200	81100	120300	108200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
 The Maintainers
 Lahore

Reference # CED/TFL **33259** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 17-05-2019
 Dated: 17-05-2019

Tension Test Report (Page -1/1)

Date of Test 20-04-2019
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.371	0.11	0.108	4000	4900	80200	81680	98200	100100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Additional Director Development
 DHA Phase-XI (Rahbar)
 Construction of Mosque in Block-'A' Sector-I, DHA Phase-XI (Rahbar)

Reference # CED/TFL **33260** (Dr. M Rizwan Riaz) Dated: 17-05-2019
 Reference of the request letter # 700/3/Mosque A/Se-II/Ph-XI/Projs/1669 Dated: 17-05-2019

Tension Test Report (Page -1/1)

Date of Test 20-05-2019
 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	0.386	3/8	0.380	0.11	0.113	3300	5200	66200	64100	104200	101100	1.30	16.3	Saeed Kasur
2	0.383	3/8	0.379	0.11	0.113	3200	5100	64200	62660	102200	99900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

3/8" Dia Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 M/S Defence Housing Authority.
 Lahore Cantt
 (Const of Kennel Hospital E-Ext at DHA Ph-6)(M/s Fauz Engrs Ltd)

Reference # CED/TFL **33261** (Dr. Ali Ahmed)
 Reference of the request letter # 408/241/E/Lab/579

Dated: 20-05-2019
 Dated: 20-05-2019

Tension Test Report (Page -1/1)

Date of Test 20-05-2019
 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	3200	5300	64200	63580	106200	105300	1.20	15.0	City Steel
2	0.380	3	0.377	0.11	0.112	3200	5300	64200	63120	106200	104600	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														

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI)(M/s Construct)

Reference # CED/TFL **33263** (Dr. M Rizwan Riaz)
Reference of the request letter # 408/241/E/Lab/573/2426

Dated: 17-05-2019
Dated: 16-05-2019

Tension Test Report (Page -1/1)

Date of Test 20-05-2019
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	0.375	0.11	0.111	3600	5000	72200	71690	100200	99600	1.00	12.5	Kamran Steel
2	0.372	3	0.373	0.11	0.109	3300	5000	66200	66520	100200	100800	1.00	12.5	
3	0.364	3	0.369	0.11	0.107	3100	4800	62200	63850	96200	98900	1.20	15.0	
4	0.371	3	0.373	0.11	0.109	3200	4900	64200	64710	98200	99100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four 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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples