



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 (CAREC) Petaro – Sehwan Section-1
 JV of DONGIL, TCI, LOYA, ELECTRA & DONGSUNG
 Construction of Additional 2-Lane Carriageway from Petaro to Sehwan N-55 (Section-1) km
 64+000 to km 130+000

Reference # CED/TFL **35085** (Dr. M Rizwan Riaz)
 Reference of the request letter # RE/PSS1/2020/399

Dated: 03-07-2020
 Dated: 01-07-2020

Tension Test Report (Page – 1/1)

Date of Test 20-07-2020
 Gauge length 2 inches
 Description Bearing Pad 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
1	Bearing Pad	26.60x3.00	79.80	2600	3600	319.62	442.56	0.70	35.00	
2		26.60x3.00	79.80	2600	3600	319.62	442.56	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

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,
Design Manager
Premium Engineering
Fast Cables (Pvt.) Production Hall Construction

Reference # CED/TFL **35104** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 09-07-2020

Dated: 09-07-2020

Tension Test Report (Page – 1/2)

Date of Test 20-07-2020
Gauge length 2 inches
Description G.I 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)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	1.50	26.10x1.50	39.15	1800	2300	451.03	576.32	0.25	12.50	
2	1.50	26.10x1.50	39.15	1900	2400	476.09	601.38	0.20	10.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
 Design Manager
 Premium Engineering
 Fast Cables (Pvt.) Production Hall Construction

Reference # CED/TFL **35104** (Dr. M Rizwan Riaz)
 Reference of the request letter # Nil

Dated: 09-07-2020
 Dated: 09-07-2020

Tension Test Report (Page – 2/2)

Date of Test 20-07-2020
 Gauge length 2 inches
 Description MS Plate 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)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	20	26.00x20.00	520.00	22500	27800	424.47	524.46	1.00	50.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only One Sample for Tensile Test										
Bend Test										

I/C Testing Laboratoires
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To,
 Resident Engineer
 NESPAK
 (China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (D.I. Khan) Motorway, Package-3 (Trap to Kot Belian)(M/s Lahore Fabrication)

Reference # CED/TFL **35108** (Dr. Safer Abbass) Dated: 10-07-2020

Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/20/1528 Dated: 06-07-2020

Tension Test Report (Page – 1/2)

Date of Test 20-07-2020

Gauge length 2 inches

Description W-Metal beam, Metal Post & Metal Spacer (Galvanized) Strip Tensile and Bend Test as per AASHTOO A-180

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Metal beam	2.68x0.31	0.83	3200	4100	3852	4935	0.50	25.00	
2		2.68x0.31	0.83	3200	4100	3852	4935	0.50	25.00	
3	Metal Post	2.69x0.61	1.64	4800	7300	2925	4449	0.70	35.00	
4		2.69x0.61	1.64	4700	7100	2864	4327	0.70	35.00	
5	Metal Spacer	2.67x0.51	1.36	4700	6300	3452	4627	0.70	35.00	
6		2.67x0.51	1.36	4600	6200	3378	4553	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Six Samples for Tensile and Two Samples for Bend Test										
Bend Test										
Strip Taken from W-Metal beam Bend Test Through 180° is Satisfactory										
Strip Taken from W-Metal beam Bend Test Through 180° is Satisfactory										

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
Resident Engineer
NESPAK
(China – Pakistan Economic Corridor (CPEC), Western Route Hakla (on M1) – Yarak (D.I.
Khan) Motorway, Package-3 (Trap to Kot Belian)(M/s Lahore Fabrication)

Reference # CED/TFL **35108** (Dr. Safeer Abbass) Dated: 10-07-2020
Reference of the request letter # CPEC/NESPAK/CS/RE/PKG3/20/1528 Dated: 06-07-2020

Size Test Report (Page – 2/2)

Date of Test 20-07-2020

Gauge length -----

Description W-Metal beam, Metal Post & Metal Spacer (Galvanized) thickness Test

Sr. No.	Designation	Thickness	Remark
		(mm)	
1	W-Metal beam	3.10	
2	Metal Post	6.10	
3	Metal Spacer	5.10	
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
Only Three Samples for Test			

I/C Testing Laboratories
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

To,
 Resident Engineer
 Associated Consultancy Center (Pvt) Ltd
 SL-6

Reference # CED/TFL **35114** (Dr. M Rizwan Riaz)
 Reference of the request letter # ACC/RE/LSM/05/2020/008

Dated: 13-07-2020
 Dated: 09-07-2020

Tension Test Report (Page – 1/3)

Date of Test 20-07-2020
 Gauge length 2 inches
 Description Steel Beam Guardrail & Steel Post Strip Tensile Test
 as per AASHTOO M-180 & M-183

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Metal beam	2.60x0.28	0.73	4500	5400	6181	7418	0.35	17.50	
2		2.60x0.28	0.73	4500	5500	6181	7555	0.35	17.50	
3	Steel Post	2.59x0.71	1.84	6800	8700	3698	4731	0.70	35.00	
4		2.59x0.71	1.84	6600	8600	3589	4677	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

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,
Resident Engineer
Associated Consultancy Center (Pvt) Ltd
SL-1

Reference # CED/TFL **35114** (Dr. M Rizwan Riaz)
Reference of the request letter # ACC/RE/LSM/05/2020/010

Dated: 13-07-2020
Dated: 09-07-2020

Tension Test Report (Page – 2/3)

Date of Test 20-07-2020
Gauge length 2 inches
Description Steel Beam Guardrail & Steel Post Strip Tensile Test
as per AASHTOO M-180 & M-183

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Metal beam	2.59x0.28	0.73	4500	5500	6205	7584	0.35	17.50	
2		2.59x0.28	0.73	4400	5300	6067	7308	0.30	15.00	
3	Steel Post	2.62x0.71	1.86	6900	8700	3709	4677	0.70	35.00	
4		2.62x0.71	1.86	6600	8800	3548	4731	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four 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
Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 Associated Consultancy Center (Pvt) Ltd
 SL-2 & SL-4

Reference # CED/TFL **35114** (Dr. M Rizwan Riaz)
 Reference of the request letter # ACC/RE/LSM/05/2020/009

Dated: 13-07-2020
 Dated: 09-07-2020

Tension Test Report (Page – 3/3)

Date of Test 20-07-2020
 Gauge length 2 inches
 Description Steel Beam Guardrail & Steel Post Strip Tensile Test
 as per AASHTOO M-180 & M-183

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	W-Metal beam	2.59x0.28	0.73	4500	5600	6205	7722	0.40	20.00	
2		2.59x0.28	0.73	4600	5600	6343	7722	0.40	20.00	
3	Steel Post	2.60x0.71	1.85	6600	8900	3575	4821	0.70	35.00	
4		2.60x0.71	1.85	6600	8800	3575	4767	0.70	35.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Four Samples for Tensile Test										
Bend Test										

I/C Testing Laboratories
UET Lahore, Pakistan.

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

Ref: CED/TFL/07/35125

Dated: 14-07-2020

Dated of Test: 20-07-2020

To
ARE - ADP Projects
NESPAK
Punjab Irrigation Department - Works Under Annual Development Program (ADP)
Rehabilitation of Drainage Network in District Muzaffargarh

Subject: - TEST RESULT REPORT FOR BEARING DEVICE (PAD) (Page – 1/2)

Reference to your letter no. 3158/13/CAA/09/1456, Dated: 17/06/2020 on the above mentioned subject. One Elastomeric Bearing Rubber Pad (EBRP) (12 x 12 x 01 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 : 303 x 304 x 27.50 mm

TEST RESULTS - SHORT DURATION

Load Duration : 5+5 minutes
Test Load : 90 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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STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

Ref: CED/TFL/07/35125

Dated: 14-07-2020

Dated of Test: 20-07-2020

To
ARE - ADP Projects
NESPAK
Punjab Irrigation Department - Works Under Annual Development Program (ADP)
Rehabilitation of Drainage Network in District Muzaffargarh

Subject: - TEST RESULT REPORT FOR BEARING DEVICE (PAD) (Page – 2/2)

Reference to your letter no. 3158/13/CAA/09/1456, Dated: 17/06/2020 on the above mentioned subject. One Elastomeric Bearing Rubber Pad (EBRP) (14 x 09 x 1.75 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 : 355.50 x 229 x 46.27 mm

TEST RESULTS - SHORT DURATION

Load Duration : 5+5 minutes
Test Load : 90 TONS
Bulging Pattern : Uniform Buldging.
Laminated Parallelism : Parallel
Cracks : No crack was observed

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

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

Reference # CED/TFL **35127** (Dr. M Rizwan Riaz)

Dated: 14-07-2020

Reference of the request letter # 3836/13/AA/10/C-1-MEP-HVAC-MTR-63 Dated: 13-07-2020

Weight & Size Test Report (Page – 1/1)

Date of Test 20-07-2020

Gauge length -----

Description MS Seamless Pipe Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	3	3421	31.10	11.00	89.30	78.60	5.35	
2	3	3425	31.10	11.01	89.20	78.40	5.40	
3	6	8625	31.00	27.82	168.00	154.10	6.95	
4	6	8613	30.90	27.87	168.00	154.00	7.00	
5	8	12853	31.00	41.46	219.00	203.10	7.95	
6	8	12897	31.10	41.47	219.00	203.10	7.95	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only Six Samples for Test								

I/C Testing Laboratories
UET Lahore, Pakistan.

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

To,
 Site Engineer
 ARBT Trust
 Orphan Child Residence , Feroz Pur Road, Lahore

Reference # CED/TFL **35140** (Dr. Qasim Khan)
 Reference of the request letter # Nil

Dated: 16-07-2020
 Dated: 16-07-2020

Tension Test Report (Page -1/1)

Date of Test 20-07-2020
 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	0.370	3/8	0.372	0.11	0.109	3900	5000	78200	79010	100200	101300	0.80	10.0	
2	0.370	3/8	0.372	0.11	0.109	4000	5000	80200	81090	100200	101400	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
UET Lahore, Pakistan.

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

To,
 Executive Engineer (B&W)
 UVAS, Lahore
 (Construction of Training/ Research Dairy Unit, Training/ Research Poultry Unit, Post Mortem Building, Surgery Unit, Theriogenology Unit, Medicine Unit at CVAS, Narowal)

Reference # CED/TFL **35142** (Dr. Qasim Khan)
 Reference of the request letter # E.E/531

Dated: 16-07-2020
 Dated: 15-07-2020

Tension Test Report (Page -1/1)

Date of Test 20-07-2020
 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	0.370	3/8	0.372	0.11	0.109	3700	4800	74200	74960	96200	97300	1.10	13.8	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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STRUCTURAL ENGINEERING DIVISION
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Department of Civil Engineering
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To,
M/S Haris & Company
Lahore

Reference # CED/TFL **35143** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 16-07-2020

Dated: 14-07-2020

Tension Test Report (Page – 1/2)

Date of Test 20-07-2020
Gauge length 2 inches
Description Welded Plate Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
		(mm)	(mm ²)	(kg)	(MPa)	(inch)		
1	Welded Plate (A)	41.50x15.50	643.25	36300	553.60	0.60	30.00	Failure at the location other than weld
2	Welded Plate (B)	42.00x15.50	651.00	36800	554.54	0.60	30.00	Failure at the location other than weld
Only two samples for tensile and four samples for bend test								
Bend Test								
Strip taken from Welded Plate (A) (Face) Bend Test Through 180° is Satisfactory								
Strip taken from Welded Plate (A) (Root) Bend Test Through 180° is Satisfactory								
Strip taken from Welded Plate (B) (Face) Bend Test Through 180° is Satisfactory								
Strip taken from Welded Plate (B) (Root) Bend Test Through 180° is Satisfactory								

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
M/S Haris & Company
Lahore

Reference # CED/TFL **35143** (Dr. Qasim Khan)
Reference of the request letter # Nil

Dated: 16-07-2020

Dated: 14-07-2020

Tension Test Report (Page – 2/2)

Date of Test 20-07-2020
Gauge length 2 inches
Description Welded Pipe Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
		(mm)	(mm ²)	(kg)	(MPa)	(inch)		
1	Welded Pipe (A)	37.00x7.00	259.00	12300	465.88	0.80	40.00	Failure at the location other than weld
2	Welded Pipe (B)	38.00x6.80	258.40	12200	463.17	0.80	40.00	Failure at the location other than weld
Only two samples for tensile and four samples for bend test								
Bend Test								
Strip taken from Welded Pipe (A) (Face) Bend Test Through 180° is Satisfactory								
Strip taken from Welded Pipe (A) (Root) Bend Test Through 180° is Satisfactory								
Strip taken from Welded Pipe (B) (Face) Bend Test Through 180° is Satisfactory								
Strip taken from Welded Pipe (B) (Root) Bend Test Through 180° is Satisfactory								

I/C Testing Laboratories
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 CM Engineering (Pvt) Ltd
 Lahore
 (Long Haul Metro Project Site ID: 8180, 8165, 8793, 8144, 8624, 8670, 8503, 8631, 8114, 9521,
 3114, 8113, 8391, 9719, 8309, 8508)
 Reference # CED/TFL **35145** (Dr. Qasim Khan) Dated: 16-07-2020
 Reference of the request letter # CME/Steel/Long Haul Metro/336 Dated: 25-06-2020

Tension Test Report (Page -1/2)

Date of Test 20-07-2020
 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	0.405	10	9.88	0.12	0.119	3500	5200	64301	64860	95533	96400	1.10	13.8	
2	0.404	10	9.87	0.12	0.119	3400	5300	62464	63150	97370	98500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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 CM Engineering (Pvt) Ltd
Lahore

(Long Haul Metro Project Site ID: 8043, 8185, 8099, 8406, 8405, 52116, 8824, 8174, 8933, 8921, 8249, 8615, 9424, 9473, 50127, 9388)

Reference # CED/TFL **35145** (Dr. Qasim Khan)

Dated: 16-07-2020

Reference of the request letter # CME/Steel/Long Haul Metro/335

Dated: 25-06-2020

Tension Test Report (Page -2/2)

Date of Test 20-07-2020

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	0.395	10	9.77	0.12	0.116	3400	5100	62464	64490	93696	96800	1.20	15.0	
2	0.402	10	9.85	0.12	0.118	3500	5200	64301	65290	95533	97000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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.

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

Ref: CED/TFL/07/35146

Dated: 16-07-2020

Dated of Test: 20-07-2020

To
Sr. Const. Engineer - VII
WASA, LDA.,
Lahore

Subject: - TESTING OF RPC (REINFORCED RECYCLED PLASTIC COMPOSITE MATERIAL) MANHOLE COVER

Reference to your letter no. CD-VII/452-55, Dated: 30/06/2020 on the above mentioned subject. Two RPC (Reinforced Recycled Plastic Composite Material) Manhole Covers as received by us have been tested as requested by the client and results are given below.

Sample No. : 1

Diameter of sample : 64.30 cm

Diameter of loading plate : 55.00 cm

Loading pattern : Uniformly distributed load

Failure Load : 33800 (kg)

Sample No. : 2

Diameter of sample : 64.20 cm

Diameter of loading plate : 55.00 cm

Loading pattern : Uniformly distributed load

Failure Load : 37200 (kg)

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,
 Resident Engineer
 Al-Imam Enterprises (Pvt) Ltd
 Construction of Penta Square, Phase-V, D.H.A, Lahore

Reference # CED/TFL **35147** (Dr. Qasim Khan) Dated: 16-07-2020
 Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1111 Dated: 07-07-2020

Tension Test Report (Page -1/1)

Date of Test 20-07-2020
 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	0.409	10	9.93	0.12	0.120	3600	5300	66138	66070	97370	97300	1.30	16.3	Al-Moiz Steel
2	0.407	10	9.91	0.12	0.120	3600	5300	66138	66400	97370	97800	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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,
 Executive Engineer (B&W)
 UVAS, Lahore
 (Construction of Boundary Wall / Gate Office 1 & 2 and Watch Tower at CVAS, Narowal)

Reference # CED/TFL **35148** (Dr. Qasim Khan)
 Reference of the request letter # E.E/532

Dated: 17-07-2020
 Dated: 15-07-2020

Tension Test Report (Page -1/1)

Date of Test 20-07-2020
 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	0.378	3/8	0.376	0.11	0.111	3400	4800	68200	67440	96200	95200	1.20	15.0	FF Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

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,
 Sub Engineer (Civil)
 University of the Punjab
 The Construction of Elevation of Gate # 1at QAC

Reference # CED/TFL **35149** (Dr. M Rizwan Riaz)
 Reference of the request letter # D-532-C.E

Dated: 17-07-2020
 Dated: 11-07-2020

Tension Test Report (Page -1/1)

Date of Test 20-07-2020
 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	0.383	3	0.379	0.11	0.113	3200	4800	64200	62580	96200	93900	1.20	15.0	
2	0.382	3	0.378	0.11	0.112	3300	4800	66200	64800	96200	94300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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 Desen International
Islamabad
(Electric Polls Supply, Mangla Dam, Mirpur AJK)

Reference # CED/TFL **35157** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 20-07-2020
Dated: 17-07-2020

Tension Test Report (Page – 1/1)

Date of Test 20-07-2020
Gauge length 2 inches
Description Pipe & 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
1	Pipe	21/2"	27.00x2.70	72.90	2800	3350	376.79	450.80	0.70	35.00	
2			27.00x2.70	72.90	2750	3300	370.06	444.07	0.70	35.00	
3	Pipe	4"	27.00x2.80	75.60	2500	3100	324.40	402.26	0.70	35.00	
4			26.00x2.80	72.80	2400	3000	323.41	404.26	0.70	35.00	
5	Plate	8mm	27.00x8.00	216.00	6800	9700	308.83	440.54	0.90	45.00	
6			27.00x8.00	216.00	7000	10000	317.92	454.17	0.90	45.00	
Only Six Sample for Tensile Test											
Bend Test											

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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