



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/01/2653

Dated: 19-01-2023

Dated of Test: 26-01-2023

To

M/S Rafique Traders
Lahore

**Subject: - TEST RESULT REPORT FOR RECYCLED POLYCARBONATE (RPC)
MANHOLE COVER FOR BEARING LOAD TEST**

Reference to your letter no. Nil dated: 19/01/2023 on the above mentioned subject. One Recycled Polycarbonate (RPC) Manhole Cover for bearing load test as requested by the client has been tested and results are given below:

Sr. No.	Diameter of Cover (cm)	Diameter of loading plate (cm) (Not as per code)	Breaking Load (kg)
1	63.20	45.00	31500

I/C Testing Laboratories
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.
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To,

Resident Engineer
 NESPAK

Flyover at N-05 on G.T Road (Samma) to Gujrat Dinga Road (km no. 02) & Flyover at
 GT Road Kathala Railway Crossing District Gujrat (km. 01)

Reference # CED/TFL **2677** (Dr. Usman Akmal)

Dated: 24-01-2023

Reference of the request letter # 4364/08/CRM/14/01/2023/33

Dated: 23-01-2023

Tension Test Report (Page -1/1)

Date of Test 26-01-2023

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	4.189	10	1.252	1.27	1.231	42400	53800	73600	75900	93400	96300	1.30	16.3	Ittehad Steel
2	4.183	10	1.251	1.27	1.229	41600	53000	72200	74580	92000	95100	1.40	17.5	
3	5.233	11	1.399	1.56	1.538	45600	68200	64500	65350	96400	97800	1.40	17.5	FF Steel
4	5.228	11	1.399	1.56	1.537	45800	68400	64800	65700	96700	98200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#10 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,

Head / Manager Projects
 Shaukat Khanum Memorial Trust
 Construction of Multi-Storied Parking Garage SKMCH & RC, Lahore

Reference # CED/TFL **2687** (Dr. Rizwan Azam)
 Reference of the request letter # SKM/PFO/UET/01/25

Dated: 25-01-2023
 Dated: 25-01-2023

Tension Test Report (Page -1/1)

Date of Test 26-01-2023
 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	0.417	3	0.395	0.11	0.122	3700	5600	74200	66610	112300	100900	1.10	13.8	SJ Steel
2	0.419	3	0.396	0.11	0.123	3700	5600	74200	66260	112300	100300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Deputy General Manager (Works)
 Habib Rafiq Engineering (Pvt.) Limited
 Construction of Sky Gardens Tower, Lahore

Reference # CED/TFL **2689** (Dr. Rizwan Azam)
 Reference of the request letter # HRLE/SKG/2023/112/2789

Dated: 26-01-2023
 Dated: 26-01-2023

Tension Test Report (Page -1/1)

Date of Test 26-01-2023
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	4.126	32	31.56	1.25	1.213	26400	45000	46561	47980	79366	81800	2.20	27.5	Sfco Steel
2	4.145	32	31.63	1.25	1.218	-----	56400	-----	-----	99472	102100	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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