

Client Reference No.: MMP/WZD/RPC/43/2025
Ref: CED/SOM/1845

Dated: 24-09-2025 **SOM Lab**
Dated: 29-09-2025

Test Type: Load Test of RPC Manhole Cover 24" Diameter

Test Standard: Non-standard test was performed as per requirement of the client [Application of load at the center of the Manhole Cover through circular steel plate of 15 Inches diameter]

Test Performed by: Dr. Asad Ali Gillani

Waqas Khan

Assistant Resident Engineer

PCP Pkg-01 Wazirabad, MM Pakistan

(Construction of Sewerage System and Waste Water Treatment Plant for Southern Eastern Area of Wazirabad City)

This is with reference to your above-mentioned letter and SOM receipt No. 1845 dated: 29-09-2025. The sample of RPC Manhole Cover submitted in the Laboratory has been tested and the result is provided below.

Load Test Result

Diameter of Manhole Cover	Average Thickness of Manhole Cover	Maximum Load	Observations/Remarks
640 mm	65.2 mm	11200 kg	Manhole Cover was cracked at this load

Witnessed by: M. Abdul Shoaib (Inspector)

Test Performed by: Dr. Asad Ali Gillani

Engr. Farrukh Alvi,
Dy.General Manager (Works)
Habib Rafiq Engineering (Pvt.) Ltd, Lahore
(101 Tower, Lahore)

Client Reference No.: HRLE/SKG/2025/L-19/90-12/231(Re-Re-Tests)

Dated: 29-09-2025

SOM Lab Ref: CED/SOM/1849 (Page-1/2)

Dated: 29-09-2025

Test: Tensile Test

Sample Type: M.S Deformed Steel bar with Coupler (Zahid Engineering)

Tension Test Results

Sr. No.	Bar Size	Area	Yield Load	Ultimate Load	Yield Stress	Ultimate stress	Remarks
	(mm)	(mm ²)	kN	kN	(Mpa)	(Mpa)	
1	12	113	61.5	68.2	544	604	Steel Sample breaks at this load

Witnessed by : Zohaib Aslam (101 Tower)

Note: Please always confirm the results on web www.uet-civil.edu.pk

Test Performed by: Dr. Asad Ali Gillani

Engr. Farrukh Alvi,
Dy.General Manager (Works)
Habib Rafiq Engineering (Pvt.) Ltd, Lahore
(101 Tower, Lahore)

Client Reference No.: HRLE/SKG/2025/L-19/208-25/232

Dated: 29-09-2025

SOM Lab Ref: CED/SOM/1849 (Page-2/2)

Dated: 29-09-2025

Test: Tensile Test

Sample Type: M.S Deformed Steel bar with Coupler (Zahid Engineering)

Tension Test Results

Sr. No.	Bar Size	Area	Yield Load	Ultimate Load	Yield Stress	Ultimate stress	Remarks
	(mm)	(mm ²)	kN	kN	(Mpa)	(Mpa)	
1	25	491	202	296	411	603	Steel Sample breaks at this load
2	25	491	206	291.7	420	594	Steel Sample breaks at this load
3	25	491	214	302	436	615	Steel Sample breaks at this load

Witnessed by : Zohaib Aslam (101 Tower)

Note: Please always confirm the results on web www.uet-civil.edu.pk

Engr. Farrukh Alvi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Dy. General Manager Works.Habib Rafiq Engineering (Pvt.) Ltd.(101 Tower,Lahore)

Client Reference: HRLE/SKG/2025/Hunza/16-16.835/233

SOM Lab Ref:

1850 (P-1/1)

Dated: 29-09-2025

Dated:

29-09-2025

Test: Tension Test

Test Specification:

ASTM-A-615

Guage Length: 200 mm

Sample Type:

Deformed Bar (Hunza Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.542	16	15.80	201	196	94.20	124.70	469	481	620	637	40.0	200	20.0	
2	1.570	16	15.96	201	200	99.20	130.70	494	496	650	654	35.0	200	17.5	
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Witnessed By: Zohaib Aslam (101 Tower)

BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Umar Javed
BDM
HAC&SONS Lahore

Test Performed by: S. Asad Ali Gillani

Client Reference No.: LET/USET/2025/053

Dated: Nil

SOM Lab Ref: CED/SOM/1852 (Page 1/1)

Dated: 29-09-2025

Test Type: Load Test

Sample Type: Sling Load bearing Anchor

Load Test Results

Sr No.	Sample Type	Proof Load (kg)	Remarks
1	Sling Anchor	700	Sample remains satisfied at this proof load.

Note: Please always confirm the results on web www.uet-civil.edu.pk

NAOYOSHI GO

Test Performed By: Dr. /Engr. Asad Ali Gillani

PM Tobishima Corporation Multan.(Installation of Weather Surveillance Radar In Multan City)

Client Reference: Nil

Dated: 29-09-2025

SOM Lab Ref: CED/SOM/1844 (Page-1/1)

Dated: 29-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

Gauge Length: 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.974	13	12.57	133	124	62.70	81.20	472	506	612	655	22.5	200	11.3	
2	0.948	13	12.40	133	121	53.20	76.00	401	441	573	630	35.0	200	17.5	
3	0.975	13	12.58	133	124	64.20	83.00	484	517	625	668	22.5	200	11.3	
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BEND TEST:

13mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Six Samples Received and Tested</p>
13mm	Sample bend through 180 degrees Satisfactorily without any crack	
13mm	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Muhammad Shafeeq
 Manager Operations INDIGO Signature Apartments Lahore.

Test Performed By: Dr. /Engr. Asad Ali Gillani

Client Reference: Nil
Dated: 26-09-2025

SOM Lab
Ref: 1846 (Page-1/1)
Dated: 29-09-2025

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.455	6	0.738	0.44	0.428	14.95	18.57	74960	77060	93100	95710	1.40	8.0	17.5	
2	1.459	6	0.739	0.44	0.429	14.98	18.62	75110	77040	93350	95750	1.30	8.0	16.3	
3	0.665	4	0.498	0.20	0.195	6.83	8.61	75320	77250	94990	97420	1.20	8.0	15.0	
4	0.665	4	0.498	0.20	0.195	6.73	8.53	74190	76090	94090	96500	1.40	8.0	17.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Anwar Ul Haq
PM IKAN Engineering Services Pvt Ltd.(Const Of Zong MSC Faisalabad)

Test Performed By: Dr. /Engr. Asad Ali Gillani

Client Reference: IKAN-FSD-SITE-UET/046

SOM Lab

Ref: 1848 (Page-1/1)

Dated: 29-09-2025

Dated: 29-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Ittehad Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.636	8	0.993	0.79	0.775	26.12	33.03	72910	74320	92210	93990	1.70	8.0	21.3	
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Witnessed By: Naeem Yaseen (Supervisor)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Farhan Tariq Khan
PM The First Brick Lahore.(Project Ravi Business Center)

Test Performed By: Dr. /Engr. Asad Ali Gillani

Client Reference: TFB/Rep-010

SOM Lab

Ref: 1851 (Page-1/1)

Dated: 24-09-2025

Dated: 29-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (TFB-AZ-03)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.670	4	0.501	0.20	0.197	5.61	8.84	61830	62770	97460	98940	1.30	8.0	16.3	
2	0.661	4	0.497	0.20	0.194	5.78	8.87	63740	65710	97800	100820	1.10	8.0	13.8	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Altaf Hussain

Test Performed By:

Dr. /Engr. Asad Ali Gillani

RE-2 Barqaab Consulting Services, Lahore.(Const Of Pera Enforcement Station in Tehsil Kasur)

Client Reference: Nil

SOM Lab

Ref: 1853 (Page-1/1)

Dated: 29-09-2025

Dated: 29-09-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (AF Steel)

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.686	8	1.002	0.79	0.789	22.78	33.66	63610	63690	93970	94090	1.40	8.0	17.5	
2	2.682	8	1.002	0.79	0.788	22.75	33.61	63520	63680	93830	94070	1.40	8.0	17.5	
3	1.509	6	0.751	0.44	0.443	14.68	19.64	73580	73080	98460	97790	1.30	8.0	16.3	
4	1.506	6	0.751	0.44	0.443	14.68	19.54	73580	73080	97950	97290	1.30	8.0	16.3	
5	0.670	4	0.501	0.20	0.197	5.91	9.25	65200	66190	101960	103510	1.40	8.0	17.5	
6	0.666	4	0.500	0.20	0.196	5.76	8.84	63510	64810	97460	99450	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Resident Engineer

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Sampak International (Pvt) Ltd (UET Lahore Project),(Renovation/Upgradation of Ali Maedan Hall UET Lhr)

Client Reference: III-466-BW-A/05

SOM Lab

Ref: 1854 (Page-1/1)

Dated: 29-09-2025

Dated: 29-09-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.672	4	0.501	0.20	0.197	5.73	9.04	63180	64140	99710	101230	1.50	8.0	18.8	
2	0.667	4	0.500	0.20	0.196	5.78	9.09	63740	65040	100270	102320	1.40	8.0	17.5	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

M.Waseem Azhar
Asstt Director (QCD) WASA,LDA,Lhr.(M/S. Shezone Pipe Industry)

Test Performed By: Dr. /Engr. Asad Ali Gillani

Client Reference: QCD/3138

SOM Lab

Ref: 1855 (Page-1/3)

Dated: 16-07-2025

Dated: 29-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.665	4	0.498	0.20	0.195	6.83	8.77	75320	77250	96670	99150	1.20	8.0	15.0	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

M.Waseem Azhar
Asstt Director (QCD) WASA,LDA,Lhr.(M/S. Shezone Pipe Industry)

Test Performed By: Dr. /Engr. Asad Ali Gillani

Client Reference: QCD/3678

SOM Lab

Ref: 1855 (Page-2/3)

Dated: 23-08-2025

Dated: 29-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.666	4	0.500	0.20	0.196	6.80	8.51	74980	76510	93860	95780	1.40	8.0	17.5	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

M.Waseem Azhar
Asstt Director (QCD) WASA,LDA,Lhr.(M/S. Shezone Pipe Industry)

Test Performed By: Dr. /Engr. Asad Ali Gillani

Client Reference: QCD/4145

SOM Lab

Ref: 1855 (Page-3/3)

Dated: 27-09-2025

Dated: 29-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	lb/ft	#	in	in ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.665	4	0.498	0.20	0.195	6.85	8.63	75540	77480	95210	97650	1.30	8.0	16.3	
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BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk