

Client Reference No.: 4084/LDP/103/MSA/04/243

Dated: 17-09-2025

SOM Lab Ref: CED/SOM/1894

Dated: 06-10-2025

Test Type: Load Test of RPC Manhole Cover

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 thick steel plate of 15 Inch diameter]

Test Performed by: Dr. Asad Ali Gillani

Muhammad Sohail Akhtar

Resident Engineer

Nespak Allama Iqbal Zone. Lahore.

[Rehb/Impro of Street Sewerage/Drainage UC-117 Shah Pur Kanjra, in (Allama Iqbal Zone MCL)]

This is with reference to your above-mentioned letter and SOM receipt No.1894 dated: 06-10-2025. The samples of RPC Manhole Cover submitted in the Laboratory has been tested and the result is provided below.

Load Test Result

Sr. No	Diameter of Manhole Cover	Average Thickness of Manhole Cover	Maximum Load	Observations/Remarks
1	640 mm	70.4 mm	11000 kg	The sample was cracked at this load

Engr. M. Tausif
PM-Civil Zubair Grain Product Pvt.Ltd Sahiwal.

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

Client Reference: Nil

SOM Lab

Ref: 1889 (Page-1/1)

Dated: Nil

Dated: 06-10-2025

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	2.611	8	0.988	0.79	0.767	26.84	34.32	74930	77180	95820	98690	1.40	8.0	17.5	
2	2.605	8	0.988	0.79	0.766	26.81	34.30	74850	77190	95760	98760	1.30	8.0	16.3	
3	1.471	6	0.742	0.44	0.432	14.34	19.03	71890	73220	95400	97160	1.20	8.0	15.0	
4	1.469	6	0.742	0.44	0.432	14.24	18.96	71380	72700	95040	96800	1.20	8.0	15.0	
5	0.658	4	0.496	0.20	0.193	6.88	8.77	75880	78630	96670	100180	1.40	8.0	17.5	
6	0.657	4	0.496	0.20	0.193	6.78	8.69	74750	77470	95770	99250	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Muhammad Umair Sajid
Sr.Engr (C) WASO (SWP) PAEC D.G.Khan.

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

Client Reference: SWP/W(2562)/2024

SOM Lab

Ref: 1890 (Page-1/1)

Dated: 30-09-2025

Dated: 06-10-2025

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	1.502	6	0.749	0.44	0.441	14.32	20.03	71790	71630	100400	100170	1.30	8.0	16.3	
2	1.502	6	0.749	0.44	0.441	14.32	19.98	71790	71630	100150	99920	1.40	8.0	17.5	
3	0.664	4	0.498	0.20	0.195	6.42	8.63	70820	72640	95210	97650	1.40	8.0	17.5	
4	0.664	4	0.498	0.20	0.195	6.49	8.69	71610	73440	95770	98230	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

M.Fahad Ijaz

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PE Design Man Associates (Pvt.) Ltd.(Const Of Hospital Building of Hussain Medical Complex at Kunjah,Mangowal Gujrat)

Client Reference: Nil

SOM Lab

Ref:

1891 (Page-1/1)

Dated: 03-10-2025

Dated:

06-10-2025

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	1.472	6	0.743	0.44	0.433	12.18	19.24	61060	62050	96420	97980	1.10	8.0	13.8	
2	1.468	6	0.741	0.44	0.431	12.03	19.67	60290	61550	98610	100670	1.20	8.0	15.0	
3	0.653	4	0.494	0.20	0.192	5.45	8.69	60140	62650	95770	99760	1.30	8.0	16.3	
4	0.638	4	0.488	0.20	0.187	5.35	8.63	59020	63120	95210	101830	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Engr. M Asif Javed
PM, ESAC DHA Lahore.(Grand Central Mall Project Faisalabad)

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

Client Reference: ESAC/TGC/GCMF/284

SOM Lab

Ref: 1892 (Page-1/1)

Dated: 02-10-2025

Dated: 06-10-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-706

Gauge Length: 8 inch

Sample Type: Deformed Bar (Aziz 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	2.645	8	0.995	0.79	0.777	29.23	40.11	81590	82960	111980	113860	1.40	8.0	17.5	
2	2.684	8	1.002	0.79	0.789	29.73	39.55	83010	83120	110420	110560	1.30	8.0	16.3	
3	1.460	6	0.739	0.44	0.429	16.23	21.33	81340	83430	106890	109630	1.30	8.0	16.3	
4	1.451	6	0.736	0.44	0.426	15.75	20.97	78940	81540	105100	108560	1.20	8.0	15.0	
5	1.040	5	0.624	0.31	0.306	12.05	15.49	85720	86840	110230	111670	1.20	8.0	15.0	
6	1.049	5	0.626	0.31	0.308	12.74	15.92	90650	91240	113280	114020	1.10	8.0	13.8	
7	0.639	4	0.489	0.20	0.188	7.72	9.63	85100	90530	106230	113010	1.40	8.0	17.5	
8	0.651	4	0.493	0.20	0.191	6.83	9.04	75320	78860	99710	104410	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Shafiq-ur-Rehman (PM.TGC Builders), M.Asif (ESAC), Mudassar (QC Manager Aziz Steel)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 5	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

Allah Ditta
ME Ashir Developers.(Avenue One Saquare Lahore)

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

Client Reference: Nil

SOM Lab

Ref: 1893 (Page-1/1)

Dated: 06-10-2025

Dated: 06-10-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Ittefaq 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	2.683	8	1.002	0.79	0.788	25.79	35.37	72000	72180	98750	99000	1.30	8.0	16.3	
2	1.468	6	0.741	0.44	0.431	14.60	19.69	73170	74700	98720	100780	1.20	8.0	15.0	
3	0.707	4	0.515	0.20	0.208	6.90	8.87	76100	73180	97800	94040	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three 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