

Client Reference No.: MMP/1095/Kamalia/SEW/116/2025

SOM Lab Ref: CED/SOM/1094

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 thick(19.0mm) steel plate of 377mm diameter]

Test Performed by: Dr. Asad Ali Gillani

Dated: 09-04-2025

Dated: 21-04-2025

Muhammad Shafiq

Assistant Resident Engineer

PCP Pkg-III Kamalia, MM Pakistan

(Improvement of Sewerage System and Construction of Waste Water Treatment Plant-Kamalia City Package-1 Sewerage System)

This is with reference to your above-mentioned letter and SOM receipt No. 1094 dated: 21-04-2025. 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
630 mm	70.6 mm	5400 kg	Manhole Cover was cracked at this load

Witnessed by: Qazi Abdul Majid (RE-MMP) MC Kamalia

for Comm Officer 765 Construction Team Engrs C/O Sigcen Lhr.(Lahore Ring Road SL-3 Project)

for Comm Officer 765 Construction Team Engrs C/O Sigcen Lhr.(Lahore Ring Road SL-3 Project)

SOM Lab

Dated: 21-04-2025

Dated: 21-04-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Five Star Steel)

Gauge Length: 8 inch

Sample Type:

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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

Test Performed By: Dr. /Engr. Irfan Ul Hassan

SOM Lab
Ref: 1088 (Page-1/1)
Dated: 21-04-2025

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

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	1.465	6	0.741	0.44	0.431	14.48	18.93	72560	74070	94880	96870	1.20	8.0	15.0	
2	1.474	6	0.743	0.44	0.433	15.31	19.52	76750	77990	97850	99430	1.20	8.0	15.0	
3	0.654	4	0.494	0.20	0.192	7.44	9.17	82060	85480	101170	105380	0.90	8.0	11.3	
4	0.658	4	0.496	0.20	0.193	7.46	9.30	82290	85270	102520	106240	0.90	8.0	11.3	
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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															

Lt. Col ® Muhammad Ibrahim

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Snr Estate Engr Sundar Industrial Estate.(Construction of Security Check Posts at SIE)

Client Reference: BOM/SIE/BCD 4-25/690

Dated: 18-04-2025

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 1089 (Page-1/1)

Dated: 21-04-2025

ASTM-A-615

Test Specification:

Sample Type: Deformed Bar (Moiz 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	0.583	4	0.467	0.20	0.171	5.88	7.67	64860	75860	84530	98870	1.40	8.0	17.5	
2	0.581	4	0.467	0.20	0.171	5.81	7.61	64080	74940	83970	98210	1.30	8.0	16.3	
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<u>BEND TEST:</u>															
--	No Bend test performed										Note:- Only Two Samples Received and Tested				
Note: Please always confirm the results of above report on web www.uet-civil.edu.pk															

Supervisor Engineer

Health Component- PHCIP Lahore.(Burial PIT Construction)

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Client Reference: PIU-H/PHCIP/PM/788

Dated: 14-04-2025

SOM Lab

Ref:

1090 (Page-1/1)

Dated:

21-04-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar

[illegible]

BEND TEST:

--	No Bend test performed	Note:- Only Six Samples Received and Tested

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

Apex Construction & Co.(83-E-1 Commercial Building Gulberg Lahore)

Dr. /Engr. Irfan Ul Hassan

Ref: 1091 (Page-1/1)

Dated: 21-04-2025

ASTM-A-615

Deformed Bar

<u>BEND TEST:</u>			
# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Syed Talal Tariq

SPM IK Associates.(Const Of HMB Building Jail Road Faisalabad)

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Client Reference: IKAN/HMB/S.T/02/2025

Dated: 21-04-2025

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref:

1092 (Page-1/1)

Dated:

21-04-2025

Test Specification:

Sample Type:

ASTM-A-615

Def. 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	1.535	6	0.758	0.44	0.451	14.22	19.80	71280	69540	99230	96810	1.30	8.0	16.3	
2	1.477	6	0.743	0.44	0.434	14.39	18.78	72150	73150	94120	95420	1.30	8.0	16.3	
3	1.044	5	0.625	0.31	0.307	10.65	14.24	75790	76530	101310	102300	1.30	8.0	16.3	
4	1.052	5	0.627	0.31	0.309	9.50	13.07	67590	67810	92970	93280	1.50	8.0	18.8	
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<u>BEND TEST:</u>															
# 6	Sample bend through 180 degrees Satisfactorily without any crack										Note:- Only Six Samples Received and Tested				
# 5	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.Aziz Ur Rehman, ARE **Test Perf**
ACE-Arts Limited, Net Zero Energy Building Gulbrg III Lahore.

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

Client Reference: NZEB/ACE/LAB/2025/38

Dated: 21-04-2025

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 1093 (Page-1/1)

Dated: 21-04-2025

ASTM-A-615

Deformed Bar (Karachi 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	2.610	8	0.988	0.79	0.767	26.35	34.78	73570	75770	97100	100010	1.50	8.0	18.8	
2	2.607	8	0.988	0.79	0.766	26.10	34.32	72850	75140	95820	98820	1.30	8.0	16.3	
3	1.479	6	0.744	0.44	0.435	15.57	20.64	78020	78920	103470	104660	1.10	8.0	13.8	
4	1.473	6	0.743	0.44	0.433	15.24	19.80	76390	77620	99230	100830	1.20	8.0	15.0	
5	0.643	4	0.491	0.20	0.189	5.98	9.12	65990	69830	100610	106460	0.90	8.0	11.3	
6	0.662	4	0.498	0.20	0.195	6.17	9.38	68010	69750	103420	106070	1.00	8.0	12.5	
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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															