

Client Reference No.: 4084/103/LDP/GUL(S-1)04/82

Dated: 04-08-2025

SOM Lab Ref: CED/SOM/1730

Dated: 04-09-2025

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

Tanvir Naqvi

Resident Engineer

NESPAK (Pvt.) Ltd

(Scheme # 2 Rehb/Improvement of Street P.C.C UC -185,200,201,202,,204,206,208, Gulberg Zone MCL)

This is with reference to your above-mentioned letter and SOM receipt No.1730 dated: 04-09-2025. 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	62.5 mm	10100 kg	The sample was cracked at this load

NAOYOSHI GO

Test Performed By:

Dr. /Engr.

Ubaid Mughal

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

Client Reference: Nil

Dated: 04-09-2025

SOM Lab Ref: CED/SOM/1732 (Page-1/1)

Dated: 04-09-2025

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	1.573	16	15.96	201	200	110.50	141.20	550	553	702	706	30.0	200	15.0	
2	1.568	16	15.95	201	200	108.70	140.20	541	545	697	702	32.5	200	16.3	
3	1.577	16	16.00	201	201	106.00	137.50	527	528	684	685	25.0	200	12.5	
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BEND TEST:

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

Abdul Baseet

Test Performed By:

Dr. /Engr.

Irfan Ul Hassan

ME Banu Mukhtar Contracting(Pvt.) Ltd.(Burj-1 By AJWA Builders)

Client Reference: DOC-BMC/AJWA/163

SOM Lab

Ref:

1731 (P-1/1)

Dated: 02-09-2025

Dated:

04-09-2025

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	2.621	8	0.990	0.79	0.770	24.16	32.84	67450	69200	91690	94070	1.30	8.0	16.3	
2	2.632	8	0.992	0.79	0.773	24.16	33.13	67450	68930	92490	94520	1.30	8.0	16.3	
3	2.626	8	0.991	0.79	0.772	23.82	32.84	66510	68060	91690	93830	1.30	8.0	16.3	
4	1.483	6	0.745	0.44	0.436	12.84	17.13	64380	64970	85840	86630	1.40	8.0	17.5	
5	1.465	6	0.741	0.44	0.431	13.25	17.86	66430	67810	89520	91390	1.50	8.0	18.8	
6	1.502	6	0.749	0.44	0.441	13.97	18.73	70000	69840	93860	93650	1.40	8.0	17.5	
7	0.664	4	0.498	0.20	0.195	6.07	8.46	66890	68600	93300	95690	1.50	8.0	18.8	
8	0.660	4	0.497	0.20	0.194	6.03	8.41	66550	68610	92740	95610	1.10	8.0	13.8	
9	0.662	4	0.498	0.20	0.195	5.96	8.46	65760	67450	93300	95690	1.10	8.0	13.8	
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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	
# 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

ESS-I-AAR Consultant.(Rehb of Metalled Road From Fatehpur to 18-Hazari Via Nawan Kot)

Client Reference: 91

SOM Lab

Ref: 1733 (P-1/1)

Dated: 03-03-2025

Dated: 04-09-2025

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	0.647	4	0.492	0.20	0.190	7.39	8.79	81500	85790	96900	102000	0.80	8.0	10.0	
2	0.645	4	0.492	0.20	0.190	7.16	8.66	78910	83070	95550	100580	0.80	8.0	10.0	
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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

Muhammad Istiaq
Operational Manager AES Lahore.

Test Performed By: Dr. /Engr. Ubaid Mughal

Client Reference: Nil

SOM Lab

Ref: 1734 (P-1/1)

Dated: Nil

Dated: 04-09-2025

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	0.657	4	0.496	0.20	0.193	6.83	8.51	75320	78050	93860	97270	0.80	8.0	10.0	
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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

Muhammad Saad Barakzai

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

ER Nespak Lahore.(Expansion of Terminal Building and Allied Facilities at AllAP Lahore)

Client Reference: 3043/50Q/MSB/108/1376

SOM Lab

Ref:

1735 (Page-1/1)

Dated: 28-08-2025

Dated:

04-09-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

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	0.666	4	0.500	0.20	0.196	5.52	8.79	60930	62170	96900	98880	1.10	8.0	13.8	
2	0.670	4	0.501	0.20	0.197	5.73	8.82	63180	64140	97230	98720	1.20	8.0	15.0	
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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