

Client Reference No.: 4891/WASA/ABT/RE/Lab # 30

Dated: 29-08-2025

SOM Lab Ref: CED/SOM/1774

Dated: 16-09-2025

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

Resident Engineer (ABT Zone)

EPHE Division, NESPAK Lahore.

[Provision/Impr of Water Supply Sewerage System at Hajjipura and adjoining abadies UC-1452 in ABT Zone Lahore]

This is with reference to your above-mentioned letter and SOM receipt No.1774 dated: 16-09-2025. 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	642 mm	69.5 mm	12000 kg	The sample was cracked at this load

NAOYOSHI GO

Test Performed By: Dr. /Engr. Nauman Khurram

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

Client Reference: Nil

Dated: 15-09-2025

SOM Lab Ref: CED/SOM/1770 (Page-1a/1)

Dated: 16-09-2025

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	3.798	25	24.82	491	484	220.70	306.50	450	456	624	634	35.0	200	17.5	
2	3.796	25	24.81	491	484	225.50	310.70	459	467	633	643	40.0	200	20.0	
3	3.815	25	24.87	491	486	221.70	307.50	452	457	626	633	32.5	200	16.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Six Samples Received and Tested</p>
25mm	Sample bend through 180 degrees Satisfactorily without any crack	
25mm	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

NAOYOSHI GO

Test Performed By: Dr. /Engr. Nauman Khurram

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

Client Reference: Nil

Dated: 15-09-2025

SOM Lab Ref: CED/SOM/1770 (Page-1b/1)

Dated: 16-09-2025

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	2.465	20	20.00	314	314	146.50	205.00	466	467	653	653	32.5	200	16.3	
2	2.472	20	20.02	314	315	147.00	207.20	468	467	660	659	32.5	200	16.3	
3	2.466	20	20.00	314	314	143.50	204.20	457	457	650	650	27.5	200	13.8	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<p>Note:-</p> <p>Only Six Samples Received and Tested</p>
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	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 Saqib Haider

Test Performed By: Dr. /Engr. Nauman Khurram

ARE MMP Pkg-III (PCP) Jhang.(Const & Improvement of Parks Riaz Chowk Tanki No.2 Satellite Town)

Client Reference: Jhang/WWT/PRK/02

SOM Lab

Ref: 1771(Page-1/1)

Dated: 21-08-2025

Dated: 16-09-2025

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	0.660	4	0.497	0.20	0.194	7.31	9.38	80600	83090	103420	106620	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

Naeem Akhtar, Director
 Usman Ibrahim Construction Co.(Const Of Alam Tower)

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

Client Reference: Nil

SOM Lab

Ref: 1772 (Page-1/1)

Dated: Nil

Dated: 16-09-2025

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	2.688	8	1.003	0.79	0.790	27.73	37.79	77410	77410	105490	105490	1.10	8.0	13.8	
2	2.644	8	0.995	0.79	0.777	31.09	40.13	86800	88250	112040	113910	1.50	8.0	18.8	
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BEND TEST:

# 8	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

Naeem Akhtar, Director
 Usman Ibrahim Construction Co.(Const Of Alam Tower)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

SOM Lab

Ref: 1773 (Page-1/1)

Dated: Nil

Dated: 16-09-2025

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	1.485	6	0.745	0.44	0.436	12.61	18.30	63210	63790	91720	92560	1.30	8.0	16.3	
2	1.480	6	0.744	0.44	0.435	12.81	18.42	64230	64970	92330	93390	1.40	8.0	17.5	
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BEND TEST:

# 6	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 Aman Ullah,RE

Test Performed By:

Dr. /Engr.

Ubaid Mughal

Nespak Lhr.(Main Entrance Up-Grading & Value Addition in LDA City)

Client Reference: 4047/13/MA/04/832

SOM Lab

Ref:

1775 (Page-1/1)

Dated: 15-09-2025

Dated:

16-09-2025

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	2.596	8	0.986	0.79	0.763	28.13	37.43	78550	81330	104500	108200	1.40	8.0	17.5	
2	2.596	8	0.986	0.79	0.763	28.21	37.67	78750	81530	105150	108870	1.10	8.0	13.8	
3	1.463	6	0.740	0.44	0.430	15.26	19.83	76490	78270	99380	101690	1.20	8.0	15.0	
4	1.460	6	0.739	0.44	0.429	14.44	19.39	72400	74260	97180	99680	1.10	8.0	13.8	
5	0.663	4	0.498	0.20	0.195	6.93	8.92	76440	78400	98360	100880	1.00	8.0	12.5	
6	0.669	4	0.501	0.20	0.197	7.49	9.40	82620	83880	103640	105220	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

Muhammad Sarfaraz Khan

Test Performed By:

Dr. /Engr. Asad Ali Gillani

GM (Plant) JK Sugar Mills (Pvt) Ltd Lahore.(Const at JK Sugar Mills (Pvt) Ltd Unit-I Khanewal)

Client Reference: JKSML/Admin/585

SOM Lab

Ref: 1776(Page-1/1)

Dated: 16-09-2025

Dated: 16-09-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-706

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mughal 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	0.661	4	0.497	0.20	0.194	6.63	8.26	73070	75330	91050	93870	1.30	8.0	16.3	
2	0.646	4	0.492	0.20	0.190	6.70	8.15	73850	77740	89930	94660	1.30	8.0	16.3	
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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

RE (ABT Zone) EPHE Division

Test Performed By: Dr. /Engr. Nauman Khurram

Nespak Lhr.(Prov/Impro of the Sewerage W/Supply System at Haji Pura and Adjoining Abadies UC-152 Aziz Bhati Zone Lhr)

Client Reference: 4891/WASA/ABT/RE/Lab # 29

SOM Lab Ref: 1777 (Page-1/1)

Dated: 29-08-2025

Dated: 16-09-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Mughal 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	0.658	4	0.496	0.20	0.193	6.34	8.10	69920	72460	89370	92610	1.20	8.0	15.0	
2	0.658	4	0.496	0.20	0.193	5.98	8.07	65990	68380	89030	92260	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