

Client Reference No.: Nil

Dated: 03-10-2025

SOM Lab Ref: CED/SOM/1880

Dated: 03-10-2025

Test Type: Load Test of RPC Manhole Cover 24" Diameter (JMW)

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

Azam Nafees

Construction Manager

Etihad Town Premier Enclave Raiwind Road Lahore.

This is with reference to your above-mentioned letter and SOM receipt No. 1880 dated: 03-10-2025. 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	65.8 mm	11500 kg	Manhole Cover was cracked at this load

Resident Engineer

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Al-Imam Enterprises Pvt. Ltd.(Const Of One Central Project, Barki Road Lahore)

Client Reference: Al-Imam/OCPL-LHR/WMG/Un.E-12

SOM Lab

Ref:

1878 (Page-1/1)

Dated: 19-09-2025

Dated:

03-10-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Def. Bar (Pak-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	2.655	8	0.997	0.79	0.780	22.09	29.36	61670	62460	81960	83010	1.40	8.0	17.5	
2	2.655	8	0.997	0.79	0.780	20.90	28.54	58340	59090	79680	80710	1.40	8.0	17.5	
3	1.552	6	0.762	0.44	0.456	12.66	17.89	63460	61240	89670	86530	1.30	8.0	16.3	
4	1.559	6	0.764	0.44	0.458	13.58	18.57	68060	65390	93100	89440	1.30	8.0	16.3	
5	0.661	4	0.497	0.20	0.194	4.61	6.98	50810	52380	77000	79380	1.40	8.0	17.5	
6	0.659	4	0.497	0.20	0.194	4.59	6.90	50590	52150	76100	78460	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

Muhammad Akram

Test Performed By:

Dr. /Engr.

Irfan Ul Hassan

ME Maakson Engineering Corporation (Pvt) Ltd.(Enertech Head Office Building Lahore)

Client Reference: MAAK/ENERTECH/02

SOM Lab

Ref: 1879 (Page-1/1)

Dated: 03-10-2025

Dated: 03-10-2025

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	2.552	8	0.977	0.79	0.750	25.38	34.27	70860	74640	95680	100780	1.70	8.0	21.3	
2	2.589	8	0.984	0.79	0.761	24.74	33.00	69070	71700	92120	95630	1.60	8.0	20.0	
3	1.490	6	0.747	0.44	0.438	15.06	19.29	75470	75810	96670	97110	1.20	8.0	15.0	
4	1.486	6	0.746	0.44	0.437	15.26	19.34	76490	77020	96930	97590	1.30	8.0	16.3	
5	1.029	5	0.620	0.31	0.302	10.45	13.35	74340	76310	95000	97520	1.30	8.0	16.3	
6	1.038	5	0.623	0.31	0.305	10.35	13.43	73610	74820	95510	97080	1.40	8.0	17.5	
7	0.661	4	0.497	0.20	0.194	6.57	8.38	72510	74750	92400	95260	1.10	8.0	13.8	
8	0.656	4	0.496	0.20	0.193	6.49	8.28	71610	74200	91280	94590	1.00	8.0	12.5	
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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	
# 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

Mohsin Abbas

Test Performed By: Dr. /Engr. Ubaid Mughal

QAQC Manager Zameen Development.(Const. Of ARX Project by Zameen Development,Lahore)

Client Reference: ZD/QAQC/SS-DC2510-000008/ARX/12

SOM Lab

Ref: 1881 (Page-1/1)

Dated: 03-10-2025

Dated: 03-10-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Def. Bar (H # H-164)

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	0.663	4	0.498	0.20	0.195	5.86	9.09	64640	66290	100270	102840	1.30	8.0	16.3	
2	0.661	4	0.497	0.20	0.194	5.86	8.97	64640	66640	98920	101980	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

Mohsin Abbas

Test Performed By:

Dr. /Engr. Ubaid Mughal

QAQC Manager Zameen Development.(Const. Of Phoenix Project by Zameen Development,Lahore)

Client Reference: ZD/QAQC/SS-2510-000009/Phoenix/18

SOM Lab

Ref: 1882 (Page-1/1)

Dated: 03-10-2025

Dated: 03-10-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Def. Bar (H # H-145)

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	1.503	6	0.750	0.44	0.442	12.79	21.00	64130	63840	105260	104780	1.30	8.0	16.3	
2	1.515	6	0.753	0.44	0.445	13.05	20.95	65400	64670	105000	103820	1.60	8.0	20.0	
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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

Maqsood Ahed
Tauheed Builders Lahore.

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

Client Reference: Nil
Dated: 03-10-2025

SOM Lab
Ref: 1883 (Page-1/1)
Dated: 03-10-2025

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

Test Specification: ASTM-A-615
Sample Type: 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	2.624	8	0.991	0.79	0.771	29.87	36.19	83380	85440	101030	103520	1.40	8.0	17.5	
2	2.629	8	0.992	0.79	0.773	29.36	35.73	81960	83760	99750	101940	1.30	8.0	16.3	
3	1.480	6	0.744	0.44	0.435	15.09	19.06	75620	76490	95550	96650	1.40	8.0	17.5	
4	1.519	6	0.754	0.44	0.446	16.23	19.88	81340	80250	99640	98300	1.10	8.0	13.8	
5	0.666	4	0.500	0.20	0.196	7.21	8.46	79470	81100	93300	95200	1.00	8.0	12.5	
6	0.665	4	0.498	0.20	0.195	7.26	8.41	80040	82090	92740	95120	1.10	8.0	13.8	
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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

Engr Shahzad Khurram Khan, CRE

Test Performed By:

Dr. /Engr. Irfan UI Hassan

Osmani & Compny AIIC, Fsd. (Const Of Sewer & W/Supply Networks at Main Arterial, Chiniot Sahianwala and Sem Nala Rd)

Client Reference: CRE/AIIC-06/Lab/2052

SOM Lab

Ref: 1884 (Page-1/1)

Dated: 26-09-2025

Dated: 03-10-2025

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	1.465	6	0.741	0.44	0.431	14.65	18.52	73430	74960	92840	94780	1.20	8.0	15.0	*
2	1.464	6	0.740	0.44	0.430	14.70	18.57	73680	75390	93100	95260	1.10	8.0	13.8	
3	0.657	4	0.496	0.20	0.193	6.78	8.69	74750	77470	95770	99250	1.30	8.0	16.3	
4	0.657	4	0.496	0.20	0.193	6.63	8.69	73070	75720	95770	99250	1.10	8.0	13.8	
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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

Ghulam Abbas, XEN

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

GE(Army)-II LRC.(Upgradation Of P/Shed Area Standing and Ext Svcs Facilities at Pmad Colony Lhr)

Client Reference: 6003/43/E6

SOM Lab

Ref: 1885 (Page-1/1)

Dated: 03-10-2025

Dated: 03-10-2025

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	1.442	6	0.735	0.44	0.424	14.17	20.61	71020	73700	103310	107210	1.20	8.0	15.0	
2	1.404	6	0.725	0.44	0.413	9.89	16.56	49570	52810	83030	88460	1.60	8.0	20.0	
3	0.557	4	0.457	0.20	0.164	4.59	6.68	50590	61690	73630	89790	1.40	8.0	17.5	
4	0.558	4	0.457	0.20	0.164	4.49	6.65	49460	60320	73290	89380	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

Sub Divisional officer,

Test Performed By:

Dr. /Engr. Asad Ali Gillani

BSD No.5,Lhr.(Const Of 28 Nos. Residences For BS-1 to 10 V Warders one at Distt Jail Lhr)

Client Reference: 4869/5th

SOM Lab

Ref: 1886 (Page-1/1)

Dated: 25-09-2025

Dated: 03-10-2025

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	2.664	8	0.998	0.79	0.783	30.38	38.09	84810	85560	106350	107300	1.10	8.0	13.8	
2	2.666	8	0.998	0.79	0.783	30.68	39.09	85660	86430	109140	110110	1.00	8.0	12.5	
3	1.496	6	0.748	0.44	0.440	13.46	18.17	67450	67450	91050	91050	1.30	8.0	16.3	
4	1.499	6	0.749	0.44	0.441	12.95	18.09	64890	64750	90690	90490	1.30	8.0	16.3	
5	0.667	4	0.500	0.20	0.196	7.75	9.33	85430	87180	102860	104950	1.20	8.0	15.0	
6	0.666	4	0.500	0.20	0.196	6.44	9.30	71040	72490	102520	104610	1.10	8.0	13.8	
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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 Saleem,ME

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

NESPAK ADP WASA, Lhr.(Rainwater Management-Drainage Arrangement For Sore Point at Tajpura,Lhr)

Client Reference: Nespak/Wasa/ADP UGWTTAJ PURAME/13

SOM Lab

Ref: 1887(Page-1/1)

Dated: 25-09-2025

Dated: 03-10-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (5 Star 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	0.668	4	0.500	0.20	0.196	7.29	9.30	80370	82010	102520	104610	1.10	8.0	13.8	
2	0.668	4	0.500	0.20	0.196	6.98	8.82	77000	78570	97230	99220	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