

Client Reference No.: 3043/50Q/MSB/108/790

SOM Lab Ref: CED/SOM/889

Test Type: Load Test of Cast Iron Manhole Cover 600mm Diameter (Manufactured by Teepe Engineering Company)

Specification: BS EN 124, Class D400

Test Performed by: Dr. Asad Ali Gillani

Dated: 26-02-2025

Dated: 05-03-2025

Muhammad Saud Barakzai

Engineer's Representative

NESAPK Lahore.

(Expansion of Terminal Building and Allied Facilities at AIIAP, Lahore)

This is with reference to your above-mentioned letter and SOM receipt No. 889 dated: 05-03-2025. The sample of Cast Iron Manhole Cover submitted in the Laboratory has been tested and the result is provided below.

Load Test Result

Diameter of Manhole	Proof Load	Observations/Remarks
600 mm	400 kN	No crack observed

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

Amir Saleem, XEN

GE(AIR) Lahore.(Const Of Technical Guard Room at HQ CAC at PAF Base Lahore)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 600 GEN/63/E-6

Dated: 04-03-2025

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 881 (Page-1/1)

Dated: 05-03-2025

Test Specification: ASTM-A-615

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	1.475	6	0.743	0.44	0.433	13.22	18.93	66270	67340	94880	96420	1.30	8.0	16.3	
2	0.657	4	0.496	0.20	0.193	6.34	8.36	69920	72460	92180	95520	1.30	8.0	16.3	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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

Yasir Ahmad
GM-Works FF Steel Lahore.

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: Nil

Dated: 04-03-2025

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 884 (Page-1/1)

Dated: 05-03-2025

Test Specification:

Sample Type:

ASTM-A-615

Deformed Bar (FF 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	1.043	5	0.625	0.31	0.307	10.32	13.99	73390	74110	99500	100470	1.20	8.0	15.0	
2	1.043	5	0.625	0.31	0.307	10.45	14.09	74340	75060	100230	101210	1.40	8.0	17.5	
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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															

Allied Bank Engineering Cell Islamabad.(Const Of ABL Building at Bahrain Swat)

SOM Lab

Ref: 885 (Page-1/1)

Dated: 05-03-2025

Test Specification: ASTM-A-615

Sample Type: Deformed Bar (FF 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	2.618	8	0.990	0.79	0.769	26.42	36.39	73770	75780	101600	104370	1.40	8.0	17.5	
2	2.618	8	0.990	0.79	0.769	26.22	36.19	73200	75190	101030	103790	1.40	8.0	17.5	
3	1.490	6	0.747	0.44	0.438	14.53	20.46	72810	73140	102550	103020	1.30	8.0	16.3	
4	1.487	6	0.746	0.44	0.437	14.37	20.36	72050	72540	102040	102740	1.20	8.0	15.0	
5	0.660	4	0.497	0.20	0.194	6.98	9.09	77000	79380	100270	103370	1.30	8.0	16.3	
6	0.666	4	0.500	0.20	0.196	6.93	9.12	76440	78000	100610	102660	1.20	8.0	15.0	
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<u>BEND TEST:</u>															
# 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															

Sub Divisional officer,
Kallurkot Canal Sub Div Kallurkot.(Rehb/Const of Office/Residencial Complexes, Pkg-B)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 86/1-E **SOM Lab**
Dated: 03-03-2025 **Ref:** 886 (Page-1/3)
Dated: 05-03-2025

Test:	Tension Test & Bend Test	Test Specification:	ASTM-A-615
Gauge Length:	8 inch	Sample Type:	Deformed Bar (Sheikhoo 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	1.489	6	0.747	0.44	0.438	14.12	18.78	70770	71090	94120	94550	1.50	8.0	18.8	
2	1.484	6	0.745	0.44	0.436	14.14	18.83	70870	71520	94370	95240	1.70	8.0	21.3	
3	0.654	4	0.494	0.20	0.192	6.52	8.72	71940	74940	96110	100120	1.20	8.0	15.0	
4	0.654	4	0.494	0.20	0.192	6.60	8.74	72730	75760	96340	100350	1.30	8.0	16.3	
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<u>BEND TEST:</u>															
--	No Bend test performed										Note:- Only Four Samples Received and Tested				
Note: Please always confirm the results of above report on web www.uet-civil.edu.pk															

Sub Divisional officer, **Test Performed By:** Dr. /Engr. Nauman Khurram
Kallurkot Canal Sub Div Kallurkot.(Rehb/Const of Office/Residencial Complexes, Pkg-B)

Client Reference: 87/1-E **SOM Lab**
Dated: 03-03-2025 **Ref:** 886 (Page-2/3)
Dated: 05-03-2025

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	0.653	4	0.494	0.20	0.192	4.30	6.29	47440	49420	69360	72250	1.10	8.0	13.8	
2	0.654	4	0.494	0.20	0.192	4.35	6.32	48000	50000	69700	72600	1.10	8.0	13.8	
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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															

Sub Divisional officer, **Test Performed By:** Dr. /Engr. Nauman Khurram
Kallurkot Canal Sub Div Kallurkot.(Rehb/Const of Office/Residencial Complexes, Pkg-B)

Client Reference:	<u>85/1-E</u>	SOM Lab	
Dated:	03-03-2025	Ref:	886 (Page-3/3)
Test:	Tension Test & Bend Test	Dated:	05-03-2025
Gauge Length:	8 inch	Test Specification:	ASTM-A-615
		Sample Type:	Deformed Bar (Islamabad Diamond)

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	0.662	4	0.498	0.20	0.195	6.95	8.89	76660	78630	98020	100530	1.20	8.0	15.0	
2	0.657	4	0.496	0.20	0.193	6.83	8.63	75320	78050	95210	98660	1.00	8.0	12.5	
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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															

Director Projects,Sheikhoo Sugar Mills (Steel Div) Anwar Abad Kot Addu,Muzaffargarh.

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

Client Reference: Nil

Dated: 25-02-2025

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 887 (Page-1/1)

Dated: 05-03-2025

Test Specification:

Sample Type:

ASTM-A-615

Deformed Bar (Sheikhoo 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	2.649	8	0.995	0.79	0.778	25.94	35.32	72430	73540	98610	100130	1.50	8.0	18.8	
2	2.658	6	0.997	0.44	0.781	25.50	35.19	127840	72020	176380	99370	1.60	8.0	20.0	
3	1.487	6	0.746	0.44	0.437	14.53	20.05	72810	73310	100500	101190	1.40	8.0	17.5	
4	1.477	6	0.743	0.44	0.434	14.93	20.15	74860	75890	101020	102410	1.40	8.0	17.5	
5	0.656	4	0.496	0.20	0.193	6.72	8.82	74080	76770	97230	100760	1.30	8.0	16.3	
6	0.664	4	0.498	0.20	0.195	6.78	8.87	74750	76670	97800	100300	1.20	8.0	15.0	
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<u>BEND TEST:</u>															
# 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															

Head Const. Site ABL-UML P-199&200.(Const Of ABL Upper Mall Lahore Plot No 199,200)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: ABL-UML-AMC-QAQC-108

Dated: 05-03-2025

SOM Lab

Ref: 888 (Page-1/1)

Dated: 05-03-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (FF Steel)

[illegible]

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