

M Aamir Mumtaz,SI

Test Performed By:

Dr. /Engr.

Wasim Abbas

Thaheem Construction Co.(Const Of Goddwon at Sitara Chemical Industries Ltd,Fsd)

Client Reference: TCC/UET/327

Dated: 19-12-2023

SOM Lab Ref: CED/SOM/3377(Page-1/1)

Dated: 19-12-2023

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.849	25	24.98	491	490	224.50	319.50	457	459	651	653	37.5	200	18.8	
2	3.873	25	25.06	491	493	229.50	323.50	468	466	659	656	35.0	200	17.5	
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**BEND TEST:**

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

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Muhammad Umair Iqbal

Test Performed By:

Dr. /Engr.

Aasd Ali Gillani

Park View Society Platinum Block Plot # 2046,2045 Lahore.

Client Reference: Nil

Dated: 19-12-2023

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 3374 (Page-1/1)

Dated: 19-12-2023

ASTM-A-615

Deformed Bar (Chenab Supreme)

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.558	4	0.457	0.20	0.164	4.99	7.85	55080	67170	86560	105560	1.00	8.0	12.5	
2	0.561	4	0.458	0.20	0.165	5.10	7.90	56210	68130	87120	105600	0.90	8.0	11.3	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Muhammad Zwshan Akhtar, PE  
 Progressive Heights 33 J3, Johar Town, Lahore.

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: ProgressiveHeights/misc/002

SOM Lab

Ref: 3375 (Page-1/1)

Dated: 15-12-2023

Dated: 19-12-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.606	8	0.988	0.79	0.766	27.03	40.23	75470	77840	112320	115840	1.30	8.0	16.3	
2	2.616	8	0.990	0.79	0.769	27.08	39.98	75610	77680	111610	114660	1.20	8.0	15.0	
3	1.499	6	0.749	0.44	0.441	14.55	19.39	72910	72750	97180	96960	1.00	8.0	12.5	
4	1.497	6	0.748	0.44	0.440	14.50	19.34	72660	72660	96930	96930	1.00	8.0	12.5	
5	0.664	4	0.498	0.20	0.195	6.60	8.87	72730	74600	97800	100300	1.40	8.0	17.5	
6	0.663	4	0.498	0.20	0.195	6.54	8.84	72170	74020	97460	99960	1.30	8.0	16.3	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Six Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Muhammad Sajjad,PI

Test Performed By: Dr. /Engr. Wasim Abbas

Tayba Developers Lahore.(Const Of Tayba Developers Plaza No 15-A3 Kasoori Rd,Gulberg Lhr)

Client Reference: Nil

SOM Lab

Ref: 3376 (Page-1/1)

Dated: 18-12-2023

Dated: 19-12-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.635	8	0.993	0.79	0.774	26.45	34.22	73850	75380	95530	97510	1.60	8.0	20.0	
2	2.655	8	0.997	0.79	0.780	26.27	34.27	73340	74280	95680	96900	1.60	8.0	20.0	
3	1.505	6	0.750	0.44	0.442	14.48	19.11	72560	72230	95800	95370	1.60	8.0	20.0	
4	1.501	6	0.749	0.44	0.441	14.09	18.93	70620	70460	94880	94670	1.70	8.0	21.3	
5	0.661	4	0.497	0.20	0.194	6.65	9.25	73290	75560	101960	105110	1.10	8.0	13.8	
6	0.669	4	0.501	0.20	0.197	6.88	8.63	75880	77030	95210	96660	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Sufyan Uppal, PE

Test Performed By: Dr. /Engr. Wasim Abbas

Baig Constuction Co. Lahore.(Const. Of Jinnah Square Mall Raiwind Road Lahore)

Client Reference: ST/UET/19122023/0468

SOM Lab

Ref: 3379 (Page-1/1)

Dated: 19-12-2023

Dated: 19-12-2023

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.654	8	0.997	0.79	0.780	24.26	32.39	67730	68600	90410	91570	1.60	8.0	20.0	
2	2.603	8	0.987	0.79	0.765	28.51	35.60	79600	82200	99380	102620	1.50	8.0	18.8	
3	1.500	6	0.749	0.44	0.441	13.61	20.85	68210	68060	104490	104250	1.30	8.0	16.3	
4	1.445	6	0.736	0.44	0.425	13.22	20.25	66270	68610	101530	105110	1.20	8.0	15.0	
5	0.671	4	0.501	0.20	0.197	6.32	8.15	69700	70760	89930	91300	1.10	8.0	13.8	
6	0.678	4	0.503	0.20	0.199	6.34	8.07	69920	70270	89030	89480	1.20	8.0	15.0	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Sub Divisional officer,  
HSD Raiwind.(Widening/Improvement Of Raiwind Road Length = 18-KM)

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

**Client Reference:** 998/SDR

**SOM Lab**

**Ref:** 3380 (Page-1/1)

**Dated:** 30-11-2023

**Dated:** 19-12-2023

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.663	4	0.498	0.20	0.195	5.63	7.80	62050	63640	85990	88200	1.30	8.0	16.3	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Atif Ali Awan, RE

Test Performed By: Dr. /Engr. Wasim Abbas

ECSP Lahore.(Implementation Of Master Plan Of Safari Zoo Lahore)(Group No.1)

Client Reference: ECSP/RE/IMPSZL/02

SOM Lab

Ref: 3381 (Page-1/1)

Dated: 07-12-2023

Dated: 19-12-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Kamran 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.498	6	0.748	0.44	0.440	13.86	20.46	69490	69490	102550	102550	1.30	8.0	16.3	
2	1.507	6	0.751	0.44	0.443	13.88	20.54	69590	69120	102960	102260	1.20	8.0	15.0	
3	1.494	6	0.748	0.44	0.439	14.14	20.46	70870	71030	102550	102780	1.30	8.0	16.3	
4	0.658	4	0.496	0.20	0.193	7.05	9.50	77790	80610	104770	108570	1.00	8.0	12.5	
5	0.651	4	0.493	0.20	0.191	7.03	9.45	77560	81220	104200	109110	1.10	8.0	13.8	
6	0.656	4	0.496	0.20	0.193	6.70	9.07	73850	76530	100050	103670	1.10	8.0	13.8	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Six Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Atif Ali Awan, RE

Test Performed By: Dr. /Engr. Wasim Abbas

ECSP Lahore.(Implementation Of Master Plan Of Safari Zoo Lahore)(Group No.2)

Client Reference: ECSP/RE/IMPSZL/05

SOM Lab

Ref: 3382 (Page-1/1)

Dated: 07-12-2023

Dated: 19-12-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Kamran 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.670	4	0.501	0.20	0.197	7.41	10.01	81720	82970	110390	112070	1.10	8.0	13.8	
2	0.666	4	0.500	0.20	0.196	6.63	9.28	73070	74560	102290	104380	1.20	8.0	15.0	
3	0.664	4	0.498	0.20	0.195	7.26	9.99	80040	82090	110160	112990	1.20	8.0	15.0	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)



**Client Reference No.:** Nill

**Dated:** 19-12-2023

**SOM Lab Ref:** CED/SOM/3378

**Dated:** 19-12-2023

**Test Type:** Load Test of RPC Manhole Cover

**Test Standard:** Non-standard test was performed as per requirement of the client [Application of 10 Ton load at the center of the Manhole Cover through circular thick steel plate of 12" diameter]

**Test Performed by:** Prof. Dr. Rashid Hameed

-----  
H.M.D Water Supply Center,  
8-Pather Market 99 Railway Road Lahore  
042-7636372

This is with reference to your above-mentioned letter and SOM receipt No. 3378 dated: 19-12-2023. 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	Thickness of Manhole Cover	Test Load	Observations/Remarks
640 mm	73 mm	10 Ton	1. The sample of submitted RPC manhole cover was not able to safely carry the test load. 2. It was failed (cracked) and exhibited high brittleness.

