Client Reference No.: 427/DO(I&S)/OK **Dated:** 02-12-2024

SOM Lab Ref: CED/SOM/334 **Dated:** 09-12-2024

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(19.0mm) steel plate of 377mm diameter]

Test Performed by: Dr. Asad Ali Gillani

District Officer (I&S)

District Council, Okara

(Supply of RPC Manhole Cover for Distt Okara)

This is with reference to your above-mentioned letter and SOM receipt No.334 dated: 09-12-2024. The sample of RPC Manhole Cover submitted in the Laboratory has been tested and the result is provided below.

Load Test Result

Weight	Diameter of Ring	Diameter of Manhole Cover	Average Thickness of Manhole Cover	Maximum Load	Observations/Remarks
54.20 Kg	660mm	640mm	70.2mm	16500 kg	Manhole Cover was cracked at this load

Heaven`s Way **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Zipline Adventure (Pvt) Ltd.Islamabad.(Sherwan Adventure Family Park,Abbottabad)

Client Reference: 6/12/2024/159 **Dated:** 06-12-2024

SOM Lab Ref: CED/SOM/333 (Page-1/1) **Dated:** 09-12-2024

Test: Tension Test & Bend Test **Test Specification:** ASTM-F 1554

Sample Type: Anchor Bolt (U-Shape) **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	3.944	25	25.28	491	502	380.90	427.70	776	759	871	852	30.0	200	15.0	
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BEND TEST:

--	No Bend test performed

Note:-

Only One Sample Received and Tested

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

Waqas Ahmed Ghumman,PM **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

High-Q Constructions Lhr.(Const Of High-Q Tower at CBD Lahore)

Client Reference: QC/HQ-CBD/CIVIL/003 **Dated:** 09-12-2024

SOM Lab Ref: CED/SOM/337 (Page-1/1) **Dated:** 09-12-2024

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	3.991	25	25.43	491	508	243.00	381.70	495	479	778	752	30.0	200	15.0	
2	3.965	25	25.36	491	505	251.00	381.20	511	497	777	755	27.5	200	13.8	
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BEND TEST:

25mm	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

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

Div Engr.(Civil) Engg Services Maint.& Dev PAA, AIIAP,Lhr.(Camb and Water Proofing of All Offices)

Client Reference: AIIAP/1659-01/059/LACV/IV/877 **SOM Lab Ref:** 331 (Page-1/1)

Dated: 09-12-2024 **Dated:** 09-12-2024

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **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	0.649	4	0.493	0.20	0.191	6.49	9.07	71610	74980	100050	104760	1.20	8.0	15.0	
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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

Mehmood Iqbal Asghar,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak-Turk Pak JV.(Estb Of 200 Bedded Mother &Child Hospital & Nursing College at Distt Bwn)

Client Reference: 4460/13/MA/04/431 **SOM Lab Ref:** 332 (Page-1/1)

Dated: 04-12-2024 **Dated:** 09-12-2024

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	2.716	8	1.008	0.79	0.798	24.46	33.40	68300	67620	93260	92320	1.40	8.0	17.5	
2	2.717	8	1.008	0.79	0.798	25.66	34.40	71630	70910	96050	95080	1.40	8.0	17.5	
3	1.511	6	0.752	0.44	0.444	15.29	19.64	76640	75950	98460	97570	1.40	8.0	17.5	
4	1.508	6	0.751	0.44	0.443	15.46	19.54	77510	76990	97950	97290	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six 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.** Asad Ali Gillani
HSD No.2 Rawalpindi.(Const Of Flyover Khawaja Corporation Chowk to Adyala Rd Distt Rawalpindi)

Client Reference: 1470/H-2 **SOM Lab Ref:** 335 (Page-1/1)
Dated: 05-12-2024 **Dated:** 09-12-2024

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	2.666	8	0.998	0.79	0.783	24.03	33.38	67080	67680	93200	94030	1.40	8.0	17.5	
2	2.672	8	1.000	0.79	0.785	24.57	33.86	68590	69020	94540	95140	1.30	8.0	16.3	
3	1.505	6	0.750	0.44	0.442	15.90	20.44	79710	79350	102450	101980	1.40	8.0	17.5	
4	1.508	6	0.751	0.44	0.443	15.85	20.41	79450	78920	102290	101600	1.40	8.0	17.5	
5	0.668	4	0.500	0.20	0.196	6.39	8.63	70480	71920	95210	97150	1.30	8.0	16.3	
6	0.666	4	0.500	0.20	0.196	6.32	8.56	69700	71120	94420	96350	1.20	8.0	15.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Muhammad Imran
Snr PM IDAP Lahore.

Test Performed By: **Dr. /Engr.** Wasim Abbas

Client Reference: SPM(NETZERO)/IDAP/2024/20918
Dated: 09-12-2024

SOM Lab Ref: 336 (Page-1/1)
Dated: 09-12-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Karachi 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	1.482	6	0.745	0.44	0.436	14.83	19.59	74350	75030	98210	99110	1.20	8.0	15.0	
2	1.488	6	0.746	0.44	0.437	14.60	19.27	73170	73670	96570	97230	1.20	8.0	15.0	
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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

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

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

Client Reference: DOC-BMC/AJWA/149 **SOM Lab Ref:** 338 (Page-1/2)

Dated: 09-12-2024 **Dated:** 09-12-2024

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	2.622	8	0.991	0.79	0.771	28.05	38.07	78320	80250	106290	108910	1.20	8.0	15.0	
2	2.624	8	0.991	0.79	0.771	26.07	34.81	72770	74560	97190	99580	1.30	8.0	16.3	
3	1.518	6	0.754	0.44	0.446	15.36	20.05	77000	75970	100500	99150	1.20	8.0	15.0	
4	1.502	6	0.749	0.44	0.441	15.49	20.03	77670	77490	100400	100170	1.20	8.0	15.0	
5	0.663	4	0.498	0.20	0.195	6.75	8.84	74420	76320	97460	99960	1.20	8.0	15.0	
6	0.665	4	0.498	0.20	0.195	6.80	8.87	74980	76900	97800	100300	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

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

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

Client Reference: DOC-BMC/AJWA/150 **SOM Lab Ref:** 338 (Page-2/2)

Dated: 09-12-2024 **Dated:** 09-12-2024

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	0.667	4	0.500	0.20	0.196	6.73	8.84	74190	75710	97460	99450	1.20	8.0	15.0	
2	0.665	4	0.498	0.20	0.195	6.75	8.89	74420	76320	98020	100530	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

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

PM UMT Lahore.(University of Management and Technology Lahore) (For Exhibition Building)

Client Reference: EXB-1/76 **SOM Lab Ref:** 339 (Page-1/1)

Dated: 05-12-2024 **Dated:** 09-12-2024

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Hunza 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	2.603	8	0.987	0.79	0.765	25.66	33.59	71630	73970	93770	96830	1.40	8.0	17.5	
2	2.592	8	0.985	0.79	0.762	22.94	31.96	64030	66390	89220	92500	1.60	8.0	20.0	
3	1.454	6	0.737	0.44	0.427	12.44	17.69	62340	64240	88650	91350	1.60	8.0	20.0	
4	1.471	6	0.742	0.44	0.432	14.19	19.27	71130	72440	96570	98360	1.40	8.0	17.5	
5	0.660	4	0.497	0.20	0.194	6.63	8.53	73070	75330	94090	97000	1.10	8.0	13.8	
6	0.663	4	0.498	0.20	0.195	6.70	8.63	73850	75750	95210	97650	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

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

AE B&R CMES (PAF) Sargodha.(Estb Of Cattle Form & Horse Breeding Facilities at PAF Chander)

Client Reference: 6000-HB/39/E6 **SOM Lab Ref:** 340 (Page-1/1)

Dated: 05-12-2024 **Dated:** 09-12-2024

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	1.502	6	0.749	0.44	0.441	14.02	20.08	70260	70100	100660	100430	1.20	8.0	15.0	
2	1.506	6	0.751	0.44	0.443	14.58	19.67	73070	72570	98610	97950	1.30	8.0	16.3	
3	0.674	4	0.502	0.20	0.198	6.63	8.99	73070	73810	99150	100150	1.20	8.0	15.0	
4	0.673	4	0.502	0.20	0.198	6.93	9.73	76440	77210	107350	108440	1.10	8.0	13.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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