Client Reference No.: TCI/PRSESSP-NORTH/PHASE-III/NPT-05/038 **Dated:** 11-11-2024

SOM Lab Ref: CED/SOM/206 **Dated:** 14-11-2024

Test Type: Load Test of RPC Manhole Cover 24" Diameter

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

Resident Engineer

Syed Azhar Hussain

PRSWSSP Project Tehsil Noorpurthal,Distt Khushab.

This is with reference to your above-mentioned letter and SOM receipt No.206 dated: 14-11-2024. 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 Manhole Cover	Average Thickness of Manhole Cover	Maximum Load	Observations/Remarks
49.80 Kg	646 mm	70.20 mm	16900 kg	Manhole Cover was cracked at this load

Client Reference No.: TCI/PRSESSP-NORTH/PHASE-III/NPT-04/021 **Dated:** 11-11-2024

SOM Lab Ref: CED/SOM/207 **Dated:** 14-11-2024

Test Type: Load Test of RPC Manhole Cover 24" Diameter

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

Resident Engineer

Syed Azhar Hussain

PRSWSSP Project Tehsil Noorpurthal,Distt Khushab.

This is with reference to your above-mentioned letter and SOM receipt No.207 dated: 14-11-2024. 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 Manhole Cover	Average Thickness of Manhole Cover	Maximum Load	Observations/Remarks
50.05 Kg	645 mm	70.50 mm	19500 kg	Manhole Cover was cracked at this load

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

PM DSG Energy Lahore.(Const Of Office Building at 29-M QIE,Lahore)

Client Reference: Nil **SOM Lab Ref:** 199 (Page-1/1)

Dated: 14-11-2024 **Dated:** 14-11-2024

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	2.670	8	1.000	0.79	0.785	24.77	33.54	69160	69600	93630	94220	1.20	8.0	15.0	
2	2.656	8	0.997	0.79	0.781	22.43	32.18	62610	63330	89840	90880	1.40	8.0	17.5	
3	1.504	6	0.750	0.44	0.442	13.53	18.55	67810	67500	92990	92570	1.50	8.0	18.8	
4	1.491	6	0.747	0.44	0.438	13.66	18.57	68470	68780	93100	93520	1.50	8.0	18.8	
5	0.665	4	0.498	0.20	0.195	6.49	8.38	71610	73440	92400	94770	1.00	8.0	12.5	
6	0.663	4	0.498	0.20	0.195	6.39	8.41	70480	72290	92740	95120	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

Capt Muhammad Ahsan Majeed **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
For Commander HQ 495 Engr Group NHS Gate No.12 Sigcen Lahore.

Client Reference: PC920/Testing/KamranSteel/Ord **SOM Lab Ref:** 201 (Page-1/1)
Dated: 13-11-2024 **Dated:** 14-11-2024

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.623	8	0.991	0.79	0.771	25.54	34.83	71290	73050	97240	99640	1.60	8.0	20.0	
2	2.632	8	0.992	0.79	0.773	25.64	34.88	71570	73150	97380	99530	1.40	8.0	17.5	
3	1.493	6	0.748	0.44	0.439	13.17	19.83	66020	66170	99380	99610	1.50	8.0	18.8	
4	1.496	6	0.748	0.44	0.440	13.43	20.03	67290	67290	100400	100400	1.30	8.0	16.3	
5	0.667	4	0.500	0.20	0.196	6.07	8.51	66890	68250	93860	95780	1.20	8.0	15.0	
6	0.668	4	0.500	0.20	0.196	6.22	8.63	68570	69970	95210	97150	1.10	8.0	13.8	
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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

Mohsin Abbas **Test Performed By:** **Dr. /Engr.** Rizwan Riaz

QAQC Manager Zameen Development.(Const. Of Zameen Neo at Plot #13,Gulberg III Lhr)

Client Reference: ZD/QAQC/NEO/09 **SOM Lab Ref:** 202 (Page-1/1)

Dated: 14-11-2024 **Dated:** 14-11-2024

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	1.473	6	0.743	0.44	0.433	13.97	18.86	70000	71130	94530	96060	1.40	8.0	17.5	H # 14
2	1.468	6	0.741	0.44	0.431	13.99	18.96	70100	71570	95040	97020	1.40	8.0	17.5	H # 14
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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

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

QAQC Manager Zameen Development.(Const. Of Zameen Neo at Plot #13,Gulberg III Lhr)

Client Reference: ZD/QAQC/NEO/08 **SOM Lab Ref:** 203 (Page-1/1)

Dated: 14-11-2024 **Dated:** 14-11-2024

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	6.68	8.92	73630	75130	98360	100370	1.00	8.0	12.5	H # 35
2	0.660	4	0.497	0.20	0.194	6.65	8.79	73290	75560	96900	99890	1.00	8.0	12.5	H # 35
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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

Director P & D **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

King Edward Medical University Lahore.(Const Of Bio Safety Lab Level III KEMU,Lahore)

Client Reference: P&D/KEMU 927-29 **SOM Lab Ref:** 204 (Page-1/1)

Dated: 14-11-2024 **Dated:** 14-11-2024

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	1.554	6	0.763	0.44	0.457	15.57	20.03	78020	75120	100400	96670	1.30	8.0	16.3	
2	0.664	4	0.498	0.20	0.195	6.73	8.58	74190	76090	94650	97080	1.20	8.0	15.0	
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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 Four Samples Received and Tested

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

Muhammad Azmat, RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

NESPAK-Turkpak JV Lhr.(Reconstruction of Lady Willingdon Hospital,Lahore)

Client Reference: 4729/13/MA/04/125 **SOM Lab Ref:** 205(Page-1/1)

Dated: 13-11-2024 **Dated:** 14-11-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (AF 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	1.495	6	0.748	0.44	0.439	13.46	18.98	67450	67600	95140	95360	1.30	8.0	16.3	
2	1.498	6	0.748	0.44	0.440	14.02	19.62	70260	70260	98360	98360	1.30	8.0	16.3	
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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