Test Performed by: .S. Asad Ali Gillani

Abid Rauf
Resident Engineer
NESPAK Gujranwala.
(Construction of Dual Carriageway from GT Road to Lahore-Sialkot Motorway Distt Gujranwala)

Client Reference No.: 103/EW/GRW/AR/Lab/57 Dated: 02-03-2024

SOM Lab Ref: CED/SOM/3748 (Page 2a/2) Dated: 04-03-2024

Test Type: Tensile Test **Specification:** ASTM A-36

Sample Type: 1-Base Plate (30mm),2-Stiffener(16mm), 3- L-Angle (120x120x10mm),4- C.Chanel (150x75x20) **Gauge Length:** 2 inches

Tensile and Bend Test Results

Sr. No.	Size of Steel strip (mm)	X Section Area (mm^2)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	24.5 x 30.00	735.00	216.00	304.20	293.88	413.88	0.70	35.00
2	29.0 x 30.10	872.90	234.00	361.00	268.07	413.56	0.80	40.00
3	25.3 x 15.90	402.27	199.00	238.70	494.69	593.38	0.70	35.00
4	28.0 x 15.90	445.20	210.00	257.20	471.70	577.72	0.70	35.00
5	30.0 x 9.90	297.00	110.00	139.00	370.37	468.01	0.70	35.00
6	28.2 x 9.95	280.59	102.00	146.00	363.52	520.33	0.80	40.00
7	26.3 x 7.30	191.99	79.00	115.00	411.48	598.99	0.70	35.00
8	26.2 x 7.20	188.64	75.90	110.20	402.35	584.18	0.60	30.00

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

Test Performed by: .S. Asad Ali Gillani

Abid Rauf
Resident Engineer
NESPAK Gujranwala.
(Construction of Dual Carriageway from GT Road to Lahore-Sialkot Motorway Distt Gujranwala)

Client Reference No.: 103/EW/GRW/AR/Lab/57 Dated: 02-03-2024

SOM Lab Ref: CED/SOM/3748 (Page 2b/2) Dated: 04-03-2024

Test Type: Tensile Test **Specification:** ASTM A-36

Sample Type: 5- L-Angle (50x50x5mm),6-Plate (10mm), 7-Plate(4mm),8- Plate (6mm) **Gauge Length:** 2 inches

Tensile and Bend Test Results

Sr. No.	Size of Steel strip (mm)	X Section Area (mm^2)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	19.2 x 5.10	97.92	37.00	52.70	377.86	538.19	0.70	35.00
2	18.9 x 5.10	96.39	36.70	52.00	380.74	539.48	0.50	25.00
3	30.0 x 9.90	297.00	98.70	131.70	332.32	443.43	0.70	35.00
4	28.2 x 9.60	270.72	94.50	138.20	349.07	510.49	0.80	40.00
5	27.1 x 5.10	138.21	47.70	61.20	345.13	442.80	0.70	35.00
6	26.8 x 5.00	134.00	47.70	61.20	355.97	456.72	0.60	30.00
7	21.2 x 6.00	127.20	45.00	59.20	353.77	465.41	0.80	40.00
8	21.6 x 6.10	131.76	44.70	59.00	339.25	447.78	0.80	40.00

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

Client Reference No.: PRMSC/PRSWSSP/TM/PPN/158 **Dated:** 02-03-2024

SOM Lab Ref: CED/SOM/3751 (Page 1/3) **Dated:** 04-03-2024

Test Type: Load Test of RPC Manhole Cover (Jmw Manufacturer)

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(19mm) steel plate of 377mm diameter]

Test Performed by: Dr. Asad Ali Gillani

Deputy Manager,
Punjab Rural Municipal Services Company,
Pakpattan
Punjab Rural Sustainable Water Supply and Sanitation Project (PRSWSSP) Cluster Central-II (Package-05)

This is with reference to your above-mentioned letter and SOM receipt No. 3751 dated: 04-03-2024. 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	Weight of Manhole Cover with Ring	Maximum Load	Observations/Remarks
644 mm	76.6mm	50.60 kg	11100 kg	The sample was cracked at this load

Witnessed by: M.Arslan

Client Reference No.: PRMSC/PRSWSSP/TM/PPN/157 **Dated:** 02-03-2024

SOM Lab Ref: CED/SOM/3751 (Page 2/3) **Dated:** 04-03-2024

Test Type: Load Test of RPC Manhole Cover (Iwec Manufacturer)

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(19mm) steel plate of 377mm diameter]

Test Performed by: Dr. Asad Ali Gillani

Deputy Manager,
Punjab Rural Municipal Services Company,
Pakpattan
Punjab Rural Sustainable Water Supply and Sanitation Project (PRSWSSP) Cluster Central-II (Package-06)

This is with reference to your above-mentioned letter and SOM receipt No. 3751 dated: 04-03-2024. 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	Weight of Manhole Cover with Ring	Maximum Load	Observations/Remarks
624 mm	81.6mm	49.65 kg	8900 kg	The sample was cracked at this load

Witnessed by: M.Arslan

Client Reference No.: PRMSC/PRSWSSP/TM/PPN/159 **Dated:** 02-03-2024

SOM Lab Ref: CED/SOM/3751 (Page 3/3) **Dated:** 06-03-2024

Test Type: Load Test of RPC Manhole Cover (Jmw Manufacturer)

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(19mm) steel plate of 377mm diameter]

Test Performed by: Dr. Asad Ali Gillani

Deputy Manager,
Punjab Rural Municipal Services Company,
Pakpattan
Punjab Rural Sustainable Water Supply and Sanitation Project (PRSWSSP) Cluster Central-II (Package-01)

This is with reference to your above-mentioned letter and SOM receipt No. 3751 dated: 04-03-2024. 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	Weight of Manhole Cover with Ring	Maximum Load	Observations/Remarks
643 mm	74.8mm	50.90 kg	11400 kg	The sample was cracked at this load

Witnessed by: M.Arslan

Abid Rauf, RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

NESPAK Gujranwala.(Const of Dual Carriageway From GT Road to Lahore-Sialkot Motorway)

Client Reference: 103/EW/GRW/AR/Lab/49 **Dated:** 21-02-2024

SOM Lab Ref: CED/SOM/3748(Page-1/2) **Dated:** 04-03-2024

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

Sample Type: J-Bolt (Dia 30mm) **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	5.469	30	29.79	707	697	261.50	416.00	370	376	589	597	42.5	200	21.3	
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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

Jamia-Tul-Rasheed **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Lahore Campus.(Const Of Jamia Tur Rasheed Lahore Campus)

Client Reference: Nil **SOM Lab Ref:** 3744 (Page-1/1)

Dated: 04-03-2024 **Dated:** 04-03-2024

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	1.483	6	0.745	0.44	0.436	14.55	18.83	72910	73580	94370	95240	1.50	8.0	18.8	
2	1.488	6	0.746	0.44	0.437	14.68	18.91	73580	74080	94780	95430	1.50	8.0	18.8	
3	0.656	4	0.496	0.20	0.193	7.85	9.45	86560	89700	104200	107980	1.10	8.0	13.8	
4	0.655	4	0.494	0.20	0.192	7.71	9.40	84980	88520	103640	107960	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 Six Samples Received and Tested

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

Meezan Developers **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Lahore.(Const Of Jamia Tur Rasheed Lahore Campus)

Client Reference: Nil **SOM Lab Ref:** 3745 (Page-1/1)
Dated: 04-03-2024 **Dated:** 04-03-2024

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	2.620	8	0.990	0.79	0.770	27.39	35.22	76470	78450	98320	100880	1.00	8.0	12.5	
2	2.632	8	0.992	0.79	0.773	27.57	35.27	76980	78670	98470	100630	1.20	8.0	15.0	
3	1.487	6	0.746	0.44	0.437	14.44	18.06	72400	72900	90540	91160	1.50	8.0	18.8	
4	1.479	6	0.744	0.44	0.435	14.50	17.91	72660	73490	89780	90810	1.50	8.0	18.8	
5	0.652	4	0.494	0.20	0.192	6.93	8.63	76440	79620	95210	99180	1.10	8.0	13.8	
6	0.652	4	0.494	0.20	0.192	7.00	8.82	77230	80440	97230	101290	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

Engineer Muhammad Irfan
Dy Dir Infra. DHA Gujranwala.(Sector C)

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

Client Reference: 111/15/AD/RS/Lab/Pkg-2A/2032
Dated: 01-03-2024

SOM Lab Ref: 3746 (Page-1/1)
Dated: 04-03-2024

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

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	0.662	4	0.498	0.20	0.195	6.57	8.87	72510	74360	97800	100300	1.30	8.0	16.3	
2	0.661	4	0.497	0.20	0.194	6.52	8.87	71940	74170	97800	100820	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

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

Unit Head PMO ABL-UML-P#199-200.(Const Of ABL Upper Mall Lahore Plot No 199,200)

Client Reference: ABL-UML-QAQC;64 **SOM Lab Ref:** 3747 (Page-1/1)

Dated: 04-03-2024 **Dated:** 04-03-2024

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	1.028	5	0.620	0.31	0.302	10.45	14.17	74340	76310	100810	103480	1.20	8.0	15.0	
2	1.036	5	0.622	0.31	0.304	10.45	14.19	74340	75800	100950	102940	1.30	8.0	16.3	
3	0.663	4	0.498	0.20	0.195	6.42	8.72	70820	72640	96110	98580	1.20	8.0	15.0	
4	0.663	4	0.498	0.20	0.195	6.63	8.84	73070	74940	97460	99960	1.30	8.0	16.3	
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BEND TEST:

# 5	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

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

RE NESPAK Lhr.(Const Of 4-Lane Bridge Ravi River,Lahore)

Client Reference: 4537/03/MSA/09/206 **SOM Lab Ref:** 3749 (Page-1/2)

Dated: 04-03-2024 **Dated:** 04-03-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Aziz 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	2.666	8	0.998	0.79	0.783	23.52	36.41	65650	66240	101650	102560	1.50	8.0	18.8	H # 54
2	1.500	6	0.749	0.44	0.441	13.32	20.20	66780	66630	101270	101040	1.30	8.0	16.3	H # 04
3	1.499	6	0.749	0.44	0.441	12.54	19.03	62850	62710	95400	95180	1.50	8.0	18.8	H # 504
4	1.029	5	0.620	0.31	0.302	8.97	14.02	63820	65510	99720	102360	1.00	8.0	12.5	H # 654
5	0.664	4	0.498	0.20	0.195	5.68	8.41	62610	64220	92740	95120	1.00	8.0	12.5	H # 195
6	0.672	4	0.501	0.20	0.197	5.68	8.41	62610	63570	92740	94150	1.20	8.0	15.0	H #695
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BEND TEST:

Sr # (1)	Sample bend through 180 degrees Satisfactorily without any crack
Sr # (2-3)	Sample bend through 180 degrees Satisfactorily without any crack
Sr # (4)	Sample bend through 180 degrees Satisfactorily without any crack
Sr # (5-6)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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

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

Site Engr OZ Developers Lahore.(Const a High-rise Building Bahria Sky at Bahria Orchard ph-4 Lhr)

Client Reference: Nil **SOM Lab Ref:** 3750 (Page-1/1)

Dated: 04-03-2024 **Dated:** 04-03-2024

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	2.636	8	0.993	0.79	0.775	25.64	34.45	71570	72960	96190	98050	1.50	8.0	18.8	
2	2.618	8	0.990	0.79	0.769	24.77	34.05	69160	71040	95050	97650	1.60	8.0	20.0	
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BEND TEST:

# 8	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. Haseeb Afzal **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Project Manager HMB Devlopers Pvt Ltd.(Commercial Tower, FTC Lahore)

Client Reference: HMBDPL/S.O/03/24/92(LHR) **SOM Lab Ref:** 3752(Page-1/2)

Dated: 04-03-2024 **Dated:** 04-03-2024

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	2.627	8	0.991	0.79	0.772	24.36	33.84	68020	69600	94480	96680	1.60	8.0	20.0	DC # 755
2	2.634	8	0.993	0.79	0.774	25.03	34.30	69870	71310	95760	97740	1.30	8.0	16.3	DC # 755
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BEND TEST:

# 8	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. Haseeb Afzal **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Project Manager HMB Devlopers Pvt Ltd.(Commercial Tower, FTC Lahore)

Client Reference: HMBDPL/S.O/03/24/93(LHR) **SOM Lab Ref:** 3752(Page-2/2)

Dated: 04-03-2024 **Dated:** 04-03-2024

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	0.655	4	0.494	0.20	0.192	6.37	8.33	70260	73190	91840	95670	1.40	8.0	17.5	DC # 644
2	0.658	4	0.496	0.20	0.193	6.52	8.38	71940	74550	92400	95750	1.50	8.0	18.8	DC # 644
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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