

Test Performed by: Dr.S. Asad Ali Gillani

Chief Engineer (Design)
Technical Services Wing
IESCO, Islamabad
(Underground Power Distribution Line)
Client Reference No.:83-87/TSW/05
SOM Lab Ref: CED/SOM/674(P-1/1)
Test Type: Flexural Strength & Crushing Test
Sample Type: Asbestos Pipes (6" & 5")

Dated: 13-01-2025
Dated: 29-01-2025

Standard: ASTM-C-875 - 98

Flexural Load Results

Sample No.	Diameter (mm)		Thickness (mm)	Length of the Tested Sample (unsupported span) (mm)	Flexural Load (kN)
	Outer	Inner			
1 (6")	170.0	151.0	9.5	1372	5.87
2 (5")	140	125.2	7.4	1219	3.60

Crushing Load Results

Sample No.	Diameter (mm)		Thickness (mm)	Length of the Tested Sample (cm)	Crushing Load (kN)
	Outer	Inner			
1 (6")	170.0	151.0	9.5	30.0	3.0
2 (5")	140	125.2	7.4	30.0	1.5

Client Reference No.: 64/D(O&M) W/WASA/2025

Dated: 08-02-2025

SOM Lab Ref: CED/SOM/770

Dated: 13-02-2025

Test Type: Load Test of FRP 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

Director (O&M) West

Water & Sanitation Agency

Faisalabad.

(Dilham Tanveer RCC Pre-Cast / Covers Factory of WASA Faisalabad)

This is with reference to your above-mentioned letter and SOM receipt No. 770 dated: 13-02-2025. The sample of FRP 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	Maximum Load	Observations/Remarks
635 mm	58.0mm	14500 kg	Manhole Cover was cracked at this load

Rana Kashif Raza **Test Performed By:** Dr. /Engr. Asad Ali Gillani
Dy Dir (Maint) NHA, Wazirabad.(Widening and Improvement of 01 X Existing U-Turn on N-5)

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Client Reference: Lab/DD(Maint)/WZD/NHA/2025/146 **SOM Lab Ref:** 771(Page-1/1)

Dated: 12-02-2025 **Dated:** 13-02-2025

Test:	Tension Test	Test Specification:	ASTM-A-615
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Guage Length: 200 mm **Sample Type:** MS Def 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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.893	12	12.05	113	114	59.20	89.50	524	520	792	786	30.0	200	15.0	
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BEND TEST:															
12mm	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															

Nespak ADP WASA Lhr.(R/Water Management-Drainage Arrangements-For Sore Point at R/Station)

Nespak ADP WASA Lhr.(R/Water Management-Drainage Arrangements-For Sore Point at R/Station)

Ref: 767 (Page-1/1)

Dated: 13-02-2025

Test Specification: ASTM-A-615

Sample Type: Deformed Bar (Batala 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	2.591	8	0.984	0.79	0.761	23.47	33.30	65510	68010	92970	96520	1.50	8.0	18.8	
2	2.628	8	0.991	0.79	0.772	23.65	33.56	66020	67560	93680	95870	1.50	8.0	18.8	
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<u>BEND TEST:</u>															
# 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															

SUNSHINE HEALTH CARE
Lahore.(Project Sunshine Medical Tower Shahdra)

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

Client Reference: Nil

Dated: 12-02-2025

Test: Tension Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 768 (Page-1/1)

Dated: 13-02-2025

ASTM-A-615

Deformed Bar

[illegible]

BEND TEST:

# 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

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

Asad Ali Gillani

Dated: 11-02-2025

Ref: 769 (Page-1a/1)

Dated: 13-02-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Sheikhoo Steel)

[illegible]

BEND TEST:

--	No Bend test performed	Note:- Only Three Samples Received and Tested

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

Ijaz Ahmad, SE

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

Lucky Core Industries.(Const Of Veterinary Pharmaceutical Building at 30KM Lahore Sheikhpura)

Client Reference: Nil

SOM Lab

Ref: 772 (Page-1/1)

Dated: 13-02-2025

Dated: 13-02-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

[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

Snr SDO (B&R) Army Welfare Trust Housing Scheme.(Const Of Mosque in Block E2)

Asad Ali Gillani

Dated: 13-02-2025

Ref: 773 (Page-1/1)

Dated: 13-02-2025

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	2.651	8	0.996	0.79	0.779	27.01	34.83	75420	76480	97240	98620	1.30	8.0	16.3	
2	2.632	8	0.992	0.79	0.773	27.12	34.86	75700	77360	97330	99470	1.20	8.0	15.0	
3	2.640	8	0.994	0.79	0.776	26.81	34.58	74850	76200	96530	98270	1.50	8.0	18.8	
4	1.467	6	0.741	0.44	0.431	13.99	18.32	70100	71570	91820	93740	1.20	8.0	15.0	
5	1.463	6	0.740	0.44	0.430	13.99	18.45	70100	71730	92480	94630	1.50	8.0	18.8	
6	1.461	6	0.739	0.44	0.429	14.02	18.45	70260	72060	92480	94850	1.30	8.0	16.3	
7	0.652	4	0.494	0.20	0.192	6.83	8.72	75320	78450	96110	100120	1.20	8.0	15.0	
8	0.658	4	0.496	0.20	0.193	6.57	8.46	72510	75140	93300	96680	1.10	8.0	13.8	
9	0.653	4	0.494	0.20	0.192	6.75	8.63	74420	77520	95210	99180	1.30	8.0	16.3	
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<u>BEND TEST:</u>															
--		No Bend test performed									Note:- Only Nine Samples Received and Tested				
Note: Please always confirm the results of above report on web www.uet-civil.edu.pk															