

Aamir Shahzad Alvi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

PM Usman Ibrahim Construction .(Const Of HIGH-Q Mall at 3-A Gulberg II,Lahore)

Client Reference: QC/HQ/CIVIL/009

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/664(Page-1/1)

Dated: 25-07-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: MS 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	2.483	20	20.06	314	316	196.20	255.70	625	621	814	810	25.0	200	12.5	
2	2.497	20	20.12	314	318	182.00	253.00	579	573	805	796	27.5	200	13.8	
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BEND TEST:

20mm	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

Firdous Khan, RE

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

NESPAK Lahore.(Const Of Tourism Highway From Lower Topa Murree To Chowk Pandori)

Client Reference: 4376/103/ADP21-22/SUJ/104/07

Dated: 30-06-2022

SOM Lab Ref: CED/SOM/668(Page-1/1)

Dated: 25-07-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Plain Bar (Pak Steel)

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	3.878	25	25.08	491	494	162.00	240.50	330	328	490	487	62.5	200	31.3	
2	3.860	25	25.02	491	492	160.50	238.50	327	327	486	485	55.0	200	27.5	
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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

Deputy Director

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

PHATA Sub Region Okara.(Const Of Houses 3-M & 5-M in ADS-II Renala Khurd Distt.Okara)

Client Reference: 808

SOM Lab

Ref: 658 (Page-1/1)

Dated: 19-07-2022

Dated: 22-07-2022

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	0.711	4	0.516	0.20	0.209	6.70	8.53	73850	70670	94090	90040	1.10	8.0	13.8	
2	0.650	4	0.493	0.20	0.191	6.65	8.51	73290	76750	93860	98290	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

Khurram Shahzad
Sr. Engineer (Civil), SWP PAEC, D.G.Khan

Test Performed By: Dr. /Engr. Wasim Abbas

Client Reference: SWP/W(2466,2470)/2021

SOM Lab

Ref: 663 (Page-1/1)

Dated: 21-07-2022

Dated: 25-07-2022

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	1.462	6	0.740	0.44	0.430	15.24	19.39	76390	78170	97180	99440	1.40	8.0	17.5	
2	1.468	6	0.741	0.44	0.431	15.21	19.47	76240	77830	97590	99630	1.20	8.0	15.0	
3	0.660	4	0.497	0.20	0.194	6.19	9.12	68230	70340	100610	103720	1.20	8.0	15.0	
4	0.658	4	0.496	0.20	0.193	6.22	9.04	68570	71060	99710	103320	1.00	8.0	12.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 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

Khurram Tariq

Test Performed By: Dr. /Engr. Wasim Abbas

RE NESPAK.(Dualization Of Rd From Mandibauddin City To Srai Alamgir Canal Pul Main GT Road)

Client Reference: 4376/-D/103/KT/01/64

SOM Lab

Ref: 665 (Page-1/1)

Dated: 30-06-2022

Dated: 25-07-2022

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	2.671	8	1.000	0.79	0.785	25.08	33.84	70010	70450	94480	95080	1.60	8.0	20.0	
2	2.657	8	0.997	0.79	0.781	25.15	34.00	70210	71020	94910	96000	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

Faisal Ali

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Site In-Charge Ittefaq Const.Associates.(330-R, Johar Town Lahore)

Client Reference: ICA/FLS/07

SOM Lab

Ref:

666 (Page-1/1)

Dated: 25-07-2022

Dated:

25-07-2022

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	2.565	8	0.980	0.79	0.754	27.06	33.05	75560	79170	92260	96670	1.30	8.0	16.3	
2	1.524	6	0.755	0.44	0.448	17.43	21.51	87370	85810	107810	105890	1.20	8.0	15.0	
3	0.666	4	0.500	0.20	0.196	7.75	9.70	85430	87180	107010	109200	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Zabeeh-Ullah

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Purchase Deptt Asia Poultry Feeds.Lahore

Client Reference: Nil

SOM Lab

Ref:

670 (Page-1/1)

Dated: 25-07-2022

Dated:

25-07-2022

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	2.592	8	0.985	0.79	0.762	27.34	34.88	76330	79130	97380	100960	1.20	8.0	15.0	
2	2.620	8	0.990	0.79	0.770	26.47	34.00	73910	75830	94910	97370	1.40	8.0	17.5	
3	1.527	6	0.756	0.44	0.449	19.34	21.73	96930	94990	108940	106750	1.20	8.0	15.0	
4	1.529	6	0.756	0.44	0.449	19.42	22.02	97340	95390	110370	108150	1.00	8.0	12.5	
5	1.070	5	0.632	0.31	0.314	13.10	15.77	93190	92000	112190	110760	1.00	8.0	12.5	
6	1.070	5	0.632	0.31	0.314	13.35	16.23	95000	93790	115460	113980	1.00	8.0	12.5	
7	0.650	4	0.493	0.20	0.191	7.10	8.69	78350	82040	95770	100290	1.10	8.0	13.8	
8	0.652	4	0.494	0.20	0.192	7.03	8.56	77560	80800	94420	98360	1.00	8.0	12.5	
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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
# 5	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-Only Twelve Samples
Received and TestedNote: Please always confirm the results of above report on web www.uet-civil.edu.pk

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

Kamran Tahir Sandhu

ME DHA Multan.(Electrical Works Of Sector A, H and U (M/S Barqtron)

Client Reference: 701/92/Planning/DHA

Dated: 22-07-2022

SOM Lab Ref: CED/SOM/661(Page-1/1)

Dated: 25-07-2022

Test: Tension Test

Test Specification: ASTM-F -1554

Sample Type: Anchor- Bolt (Y-Shaped)

Gauge Length: 50 mm

S.No.	Diameter	Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Reduction of Area (%)
	mm	mm ²	kN	kN	MPa	MPa	mm	mm	%	
1	12 (L 250mm)	113	50.50	69.20	447	612	10.0	50	20.0	57.7
2	12 (L 250mm)	113	76.70	97.40	678	861	10.0	50	20.0	37.5
3	12 (L 250mm)	113	51.20	71.00	453	628	12.5	50	25.0	53.3
4	12 (L 250mm)	113	49.70	68.70	439	607	12.5	50	25.0	47.4

Note:-

Only Four Samples
Received and Tested

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 1/13)

Dated: 25-07-2022

Test Type: Load Test

Sample Type: FRP Roof Channel (360mm x 34mm)

Load Test Results

Sr No.	Sample Type	Ultimate Breaking Load (kN)
1	FRP Roof Channel	5.20

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 2/13)

Dated: 25-07-2022

Test Type: Bend Test

Sample Type: FRP Bar (32mm)

Bend Test Results

Sr No.	Sample Type	Ultimate Bending Load (kN)
1	FRP Bar	12.50

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 3/13)

Dated: 25-07-2022

Test Type: Bend Test

Sample Type: FRP Pipe (32mm Dia)

Bend Test Results

Sr No.	Sample Type	Ultimate Bending Load (kN)
1	FRP Pipe	2.00

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 4/13)

Dated: 25-07-2022

Test Type: Flexure Test

Sample Type: FRP Extension H Channel

Flexure Test Results

Sr No.	Sample Type	Alignment	Ultimate Bending Load (kN)
1	FRP Extension H Channel	Horizontal	17.20
2	FRP Extension H Channel	Vertical	20.20

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 5/13)

Dated: 25-07-2022

Test Type: Flexure & Compression Test

Sample Type: FRP Pillar & Pipe (120mm Dia)

Load Test Results

Sr No.	Sample Type	Test Type	Ultimate Load (kN)
1	FRP Pipe	Flexure	2.50
2	FRP Pillar	Compression	298.0

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 6/13)

Dated: 25-07-2022

Test Type: Flexure Test

Sample Type: FRP H H Channel

Flexure Test Results

Sr No.	Test Type	Sample Type	Ultimate Load (kN)
1	Bend	FRP H H Channel	23.20

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 7/13)

Dated: 25-07-2022

Test Type: Flexure & Compression Test

Sample Type: FRP Tube (53mm X 76mm)

Load Test Results

Sr No.	Sample Type	Test Type	Ultimate Load (kN)
1	FRP Tube	Flexure	19.0
2	FRP Tube	Compression	223.0

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 8/13)

Dated: 25-07-2022

Test Type: Flexure & Compression Test

Sample Type: FRP Tube (37mm x 79mm)

Load Test Results

Sr No.	Sample Type	Test Type	Ultimate Load (kN)
1	FRP Tube	Flexure	9.20
2	FRP Tube	Compression	93.0

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 9/13)

Dated: 25-07-2022

Test Type: Load Test

Sample Type: FRP Manhole Cover (9" x 9")

Load Test Results

Sr No.	Sample Type	Ultimate Load (kN)
1	FRP Manhole Cover	10.0

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 10/13)

Dated: 25-07-2022

Test Type: Load Test

Sample Type: FRP Manhole Cover (15" x 15")

Load Test Results

Sr No.	Sample Type	Ultimate Load (kN)
1	FRP Manhole Cover	13.0

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 11/13)

Dated: 25-07-2022

Test Type: Load Test

Sample Type: FRP Manhole Cover (12" x 12")

Load Test Results

Sr No.	Sample Type	Ultimate Load (kN)
1	FRP Manhole Cover	7.50

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 12/13)

Dated: 25-07-2022

Test Type: Load Test

Sample Type: FRP Manhole Cover (15" x 15") BC

Load Test Results

Sr No.	Sample Type	Ultimate Load (kN)
1	FRP Manhole Cover	16.0

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 25-07-2022

SOM Lab Ref: CED/SOM/669 (Page 13/13)

Dated: 25-07-2022

Test Type: Tension Test

Sample Type: FRP Strips (1" x 15" x 5mm)

Tension Test Results

Sr No.	Area (mm x mm)	Ultimate Breaking Load (kN)	Ultimate Breaking Stress (Mpa)
1	24.1 x 4.9	47.7	403.92
2	25.0 x 4.9	50.2	409.79

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

Test Performed by: .S. Asad Ali Gillani

Abdul Azeem
Manager, Polymer Tek,
45-A, S.I.E. #2, Gujranwala-Pakistan.

Client Reference No.: Nil

Dated: 27-07-2022

SOM Lab Ref: CED/SOM/678 (Page 1/1)

Dated: 27-07-2022

Test Type: Load Test

Sample Type: FRP 15 Degree Angle Sandwich Roof Channel

Load Test Results

Sr No.	Sample Type	Ultimate Breaking Load (kN)
1	FRP Sandwich Roof Channel	22.5

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

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

Muhammad Aamir Khan

General Manager Jazari Steel (Pvt) Ltd.(Centaurus Space Frame JSS-SF-101-12-21)

Islamabad.

Client Reference: JS-1202

Dated: 20-07-2022

SOM Lab Ref: CED/SOM/667 (Page-1/1)

Dated: 25-07-2022

Test: Tension Test

Test Specification: ASTM-F -1554

Sample Type: Plain Bar (Bolt Rod)

Gauge Length: 200 mm

S.No.	Dia.		Area	Yield Load	Ultimate Load	Yield Stress	Ultimate Stress	Elongation	Gauge Length	%age Elongation	Remarks
	Original Diameter	Tested Diameter									
	mm	mm	mm ²	kN	kN	MPa	MPa	mm	mm	%	
1	16	14.84	173	-	150.00	-	868	5.0	200	2.5	
2	16	14.81	172	-	149.50	-	868	7.5	200	3.8	
-	-	-	-	-	-	-	-	-	-	-	

Note:-

Only two Samples

Received and Tested

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

