Test Performed by: S. Asad Ali Gillani

Material Engineer
NESPAK.Sahiwal
EPCM Consultants
(PICIIP) Water Supply System, Filtration Plants,Tub Wells,OHRs,Scada and Allied Works) (LOT-01)

Client Reference No.: 3976/11/FA/SWL/Lot-01/01/1352 Dated: 27-05-2024
SOM Lab Ref: CED/SOM/4248(Page 1/2) Dated:03-06-2024
Test Type: Tensile Test & Bend Test **Specification:** ASTM A-36
Sample Type: MS Pipe Diameter 16" (Bashir Brand) **Gauge Length:** 2 inches

Tensile & Bend Test Results

Sr. No.	Sample Type	Size of strip (mm)	X Section Area (mm^2)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	MS Pipe (Dia 16")	32.1 x 6.15	197.42	60.7	102.7	307.47	520.22	0.60	30.00
2	MS Pipe (Dia 16")	26.0 x 6.15	159.90	55.0	80.0	343.96	500.31	0.60	30.00
3	MS Pipe (Diameter 16") strip sample Bend through 180 degrees satisfactorily without any crack								

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

Test Performed by: S. Asad Ali Gillani

Material Engineer
NESPAK.Sahiwal
EPCM Consultants
(PICIIP) Water Supply System, Filtration Plants,Tub Wells,OHRs,Scada and Allied Works) (LOT-01)

Client Reference No.: 3976/11/FA/SWL/Lot-01/01/1352 Dated: 27-05-2024

SOM Lab Ref: CED/SOM/4248(Page 2/2) Dated:03-06-2024

Test Type: Thickness Test

Thickness Test

Sr. No.	Sample Type	Thickness (mm)
1	MS Pipe (Diameter 16”)	6.15

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

Test Performed by: S. Asad Ali Gillani

Material Engineer
NESPAK Sahiwal
EPCM Consultants.
(PICIIP) (Water Supply System, Filtration Plants, Tube Wells, OHRs, Scada and Allied Works) (Lot-01)

Client Reference No.: 3976/11/FA/SWL/Lot-01/01/1351 Dated: 27-05-2024

SOM Lab Ref: CED/SOM/4249 (Page 1/1) Dated: 03-06-2024

Test Type: Unit Weight Test

Sample Type: GI Pipe (50mm i/d) (Bashir Brand)

Weight and Size Test

Sr. No.	Sample Type	Weight (g)	Length (cm)	Weight per Unit Area (Kg/m)	External Diameter (mm)	Internal Diameter (mm)	Wall thickness (mm)
1	GI Pipe	1538	30.0	5.13	60.80	52.40	4.20

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

Test Performed by: .S. Asad Ali Gillani

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

Client Reference No.: Nil Dated: 03-06-2024

SOM Lab Ref: CED/SOM/4256 (Page 1/6) Dated: 03-06-2024

Test Type: Load Test, Loading Area (9” x 9”)

Sample Type: FRP Manhole Cover (24” x 24”)

Load Test Results

Sr No.	Sample Type	Ultimate Load (Kg)
1	FRP Manhole Cover	2100

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

Test Performed by: .S. Asad Ali Gillani

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

Client Reference No.: Nil Dated: 03-06-2024

SOM Lab Ref: CED/SOM/4256 (Page 2/6) Dated: 03-06-2024

Test Type: Load Test, Loading Area (9" x 9")

Sample Type: FRP Manhole Cover (24" x 24")

Load Test Results

Sr No.	Sample Type	Ultimate Load (Kg)
1	FRP Manhole Cover	2000

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

Test Performed by: .S. Asad Ali Gillani

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

Client Reference No.: Nil Dated: 03-06-2024

SOM Lab Ref: CED/SOM/4256 (Page 3/6) Dated: 03-06-2024

Test Type: Load Test, Loading Area (9” x 9”)

Sample Type: Polydoors FRP Manhole Cover (24” x 24”)

Load Test Results

Sr No.	Sample Type	Ultimate Load (Kg)
1	FRP Manhole Cover	1500

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

Test Performed by: .S. Asad Ali Gillani

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

Client Reference No.: Nil Dated: 03-06-2024

SOM Lab Ref: CED/SOM/4256 (Page 4/6) Dated: 03-06-2024

Test Type: Compression Test

Sample Type: Polydoors FRP Pultruded Profile 102x102x6mm

Load Test Results

Sr No.	Sample Type	Ultimate Load (kN)
1	Polydoors FRP Pultruded Profile 102x102x6mm	305.80

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

Test Performed by: .S. Asad Ali Gillani

Muhammad Ans
General Manager, Polycap
Industrial Area Javed Park, Shahdra.

Client Reference No.: Nil Dated: 03-06-2024

SOM Lab Ref: CED/SOM/4256 (Page 5/6) Dated: 03-06-2024

Test Type: Load Test, Loading Area (6” x 6”)

Sample Type: Polydcap Fiberglass Manhole Cover (18” x 18”)

Load Test Results

Sr No.	Sample Type	Ultimate Load (kN)
1	FRP Manhole Cover	15.0

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

Test Performed by: .S. Asad Ali Gillani

Muhammad Ans
General Manager, Polycap
Industrial Area Javed Park, Shahdra.

Client Reference No.: Nil Dated: 03-06-2024

SOM Lab Ref: CED/SOM/4256 (Page 6/6) Dated: 03-06-2024

Test Type: Load Test, Loading Area (6” x 6”)

Sample Type: Polydcap Fiberglass Manhole Cover (12” x 12”)

Load Test Results

Sr No.	Sample Type	Ultimate Load (kN)
1	FRP Manhole Cover	3.30

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

Test Performed by: Dr. S. Asad Ali Gillani

UMDS Consultants
Joint Venture of Minconsult, CEC and Jers
Lahore.
(PICIIP) (NCB-Works/PICIIP-04: Road Upgradation, Lot-04)
(Construction of Flyover In Sialkot)
Reference No.: CRE/UMDS-JV/LOT-4/SKT/243 Dated: 29/05/2024
SOM Lab Ref: CED/SOM/4258(Page-1/2) Dated: 03-06-2024

Test: Tensile Test, Elongation at Break, Tear Test, Hardness Test & Comp. Set Test

Sample Type: Elastomeric Bearing Pad (Rainbow Rubber Industry) (Size 19.7x18.8x2.59 Inches)

TENSILE STRENGTH AND ELONGATION TEST. (AS PER ASTM-D-412)

S. No	**Sample Size (mm)**	**Ultimate Load (kN)**	**Tensile Strength (Mpa)**	**Tensile Strength (kg/cm^2)**	**Elongation at Break**(%)
1	6.0 x 2.1	0.30	23.81	242.79	520.0
2	6.0 x 2.1	0.32	25.40	259.00	510.0

TEAR STRENGTH (AS PER ASTM-D-624)

S. No	**Sample Size (mm)**	**Ultimate Load (kN)**	**Tear Strength (N/mm)**
1	7.0 x 2.1	0.25	119.04
2	7.5 x 2.1	0.22	104.76

- COMPRESSION SET TEST (AS PER ASTM-D-395)

S. No.	**Thickness of Sample (mm)**	**Final Thickness (mm)**	**Compression set (%)**
1	3.00	2.76	4.66

- HARDNESS TEST (AS PER ASTM-D-2240)

S. No	**Sample Type**	**Hardness $_{avg}$ (Shore A)**
1	Elastomeric Bearing Pad	63.66

Test Performed by: Dr. S. Asad Ali Gillani

UMDS Consultants
Joint Venture of Minconsult, CEC and Jers
Lahore.
(PICIIP) (NCB-Works/PICIIP-04: Road Upgradation, Lot-04)
(Construction of Flyover in Sialkot)
Reference No.: CRE/UMDS-JV/LOT-4/SKT/243 Dated: 29/05/2024
SOM Lab Ref: CED/SOM/4258(Page-2/

2) Dated: 03-06-2024

Sample Type: Steel Strip (Elastomeric Bearing Pad) **Gauge Length:** 2 inches

Tensile Test Results

Sr. No.	Size of strip (mm)	X Section Area (mm^2)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	30.0 x 3.2	96.0	30.2	40.50	314.58	421.87	0.70	35.00

Ehsan Aziz
Solution Links Lahore

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

Client Reference: Nil
Dated: 03-06-2024
SOM Lab Ref: CED/SOM/4257 (Page-1/1)
Dated: 03-06-2024
Test: Tension Test
Test Specification: ASTM-A 615
Sample Type: Bolt
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	3.529	24	23.94	452	450	153.20	238.70	339	341	528	531	45.0	200	22.5	
2	2.427	20	19.84	314	309	111.00	161.00	353	360	512	521	42.5	200	21.3	
3	1.416	16	15.16	201	180	74.50	85.70	371	413	426	475	45.0	200	22.5	
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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

Col Shahid Bashir ® GM **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Union Developers (Pvt) Ltd.(Const of Al Fatah Mall Etihad Town Lahore)

Client Reference: ME/QA/QC/2418 **SOM Lab Ref:** 4245 (Page-1/1)

Dated: 30-05-2024 **Dated:** 03-06-2024

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	2.697	8	1.005	0.79	0.793	23.96	32.82	66880	66630	91640	91290	1.50	8.0	18.8	
2	2.673	8	1.000	0.79	0.786	23.60	32.62	65880	66220	91070	91530	1.40	8.0	17.5	
3	1.502	6	0.749	0.44	0.441	13.32	18.45	66780	66630	92480	92270	1.30	8.0	16.3	
4	1.506	6	0.751	0.44	0.443	13.25	18.47	66430	65980	92590	91960	1.40	8.0	17.5	
5	0.652	4	0.494	0.20	0.192	6.14	8.38	67670	70490	92400	96250	1.10	8.0	13.8	
6	0.652	4	0.494	0.20	0.192	6.12	8.36	67450	70260	92180	96020	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

Col Rashid Javed Butt SI ®
For ADH (QA) Lahore.

Test Performed By: **Dr. /Engr.** Kashif

Client Reference: 24501/HD/Lab
Dated: 31-05-2024

SOM Lab Ref: 4246 (Page-1/1)
Dated: 03-06-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Ak Supreme)

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	0.669	4	0.501	0.20	0.197	7.29	9.04	80370	81600	99710	101230	1.40	8.0	17.5	
2	0.667	4	0.500	0.20	0.196	7.26	9.04	80040	81670	99710	101740	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

Maj Ghulam Abbas
For ADH (QA) Lahore.

Test Performed By: **Dr. /Engr.** Kashif

Client Reference: 24501/HD/Lab
Dated: 31-05-2024

SOM Lab Ref: 4247 (Page-1/1)
Dated: 03-06-2024

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

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	0.531	4	0.446	0.20	0.156	3.65	5.83	40250	51600	64300	82430	1.30	8.0	16.3	
2	0.520	4	0.441	0.20	0.153	3.98	5.96	43840	57310	65760	85960	1.60	8.0	20.0	
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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

Engr. Muhammad Riaz Zahid **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
CEO Faiq Construction Co Lahore.(Const Of Family Loft Apartments Lahore)

Client Reference: FCC/FLA-JT/01/2024 **SOM Lab Ref:** 4250 (Page-1/1)
Dated: 21-05-2024 **Dated:** 03-06-2024

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	2.642	8	0.994	0.79	0.776	24.79	35.19	69210	70460	98240	100010	1.30	8.0	16.3	
2	2.653	8	0.997	0.79	0.780	24.57	34.86	68590	69470	97330	98580	1.50	8.0	18.8	
3	1.490	6	0.747	0.44	0.438	14.98	20.18	75110	75450	101170	101630	1.30	8.0	16.3	
4	1.479	6	0.744	0.44	0.435	14.68	20.15	73580	74420	101020	102180	1.40	8.0	17.5	
5	0.595	4	0.472	0.20	0.175	5.66	7.67	62390	71300	84530	96610	1.00	8.0	12.5	
6	0.590	4	0.469	0.20	0.173	5.61	7.41	61830	71480	81720	94480	1.00	8.0	12.5	
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BEND TEST:

--	No Bend test performed

Note:-

Only Six Samples Received and Tested

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

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

Nespak-Turk Pak JV, MCH Bwn.(Estb Of General Hospital at Distt Bahawalmager)

Client Reference: 4460/13/MIAC/04/368 **SOM Lab Ref:** 4251 (Page-1/1)

Dated: 29-05-2024 **Dated:** 03-06-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (SJ 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	2.683	8	1.002	0.79	0.788	24.08	32.87	67220	67390	91780	92010	1.30	8.0	16.3	
2	2.668	8	0.999	0.79	0.784	24.04	32.93	67110	67620	91920	92620	1.40	8.0	17.5	
3	1.487	6	0.746	0.44	0.437	14.44	18.30	72400	72900	91720	92350	1.30	8.0	16.3	
4	1.495	6	0.748	0.44	0.439	14.53	18.22	72810	72980	91310	91520	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

Note:-

Only Six Samples Received and Tested

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

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

NESPAK Lhr.(Infrastructure Development at Chahar Bagh Under Ravi Riverfront Urban Dev Project)

Client Reference: 4559/13/MAA/09/351 **SOM Lab Ref:** 4252 (Page-1/1)

Dated: 11-05-2024 **Dated:** 03-06-2024

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	1.460	6	0.739	0.44	0.429	14.78	19.08	74090	75990	95650	98100	1.30	8.0	16.3	H#B-5860
2	0.654	4	0.494	0.20	0.192	6.88	8.74	75880	79040	96340	100350	1.00	8.0	12.5	H#F-377
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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

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

Director CON DRILL (Pvt) Ltd.(Commercial Building.3 Ali New Garden Town Lahore)

Client Reference: CD/Misc/2024 **SOM Lab Ref:** 4253 (Page-1/1)

Dated: 03-06-2024 **Dated:** 03-06-2024

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	2.572	8	0.981	0.79	0.756	24.57	33.81	68590	71670	94400	98640	1.30	8.0	16.3	
2	1.481	6	0.744	0.44	0.435	12.95	19.03	64890	65640	95400	96490	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Note:-

Only Four Samples Received and Tested

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

Maj Ghulam Abbas
For ADH (QA) Centre Lahore.

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

Client Reference: 24501/HD/Lab
Dated: Jun 2024

SOM Lab
Ref: 4254 (Page-1/1)
Dated: 03-06-2024

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615
Gauge Length: 8 inch **Sample Type:** Deformed Bar (Sheikhoo 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	2.642	8	0.994	0.79	0.776	25.23	32.42	70440	71710	90500	92130	1.50	8.0	18.8	
2	2.617	8	0.990	0.79	0.769	25.64	32.57	71570	73530	90920	93410	1.50	8.0	18.8	
3	1.490	6	0.747	0.44	0.438	14.14	19.16	70870	71190	96060	96500	1.20	8.0	15.0	
4	1.478	6	0.743	0.44	0.434	14.19	19.22	71130	72110	96320	97650	1.30	8.0	16.3	
5	0.597	4	0.472	0.20	0.175	6.03	7.82	66550	76050	86220	98540	1.20	8.0	15.0	
6	0.596	4	0.472	0.20	0.175	5.98	7.72	65990	75410	85100	97250	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

Dr.Adil Khan, RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak.(Dev Of Internal Infrastructure Of CBD Walton&Flyover Connecting Bab-e-Pakistan To Walton)

Client Reference: 4322/13/DAK/02/220 **SOM Lab Ref:** 4255 (Page-1/1)

Dated: 03-05-2024 **Dated:** 03-06-2024

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	0.645	4	0.492	0.20	0.190	6.38	8.33	70370	74070	91840	96670	1.20	8.0	15.0	Kamran
2	0.652	4	0.494	0.20	0.192	6.83	8.53	75320	78450	94090	98010	1.10	8.0	13.8	Kamran
3	0.656	4	0.496	0.20	0.193	6.65	9.25	73290	75950	101960	105650	1.20	8.0	15.0	FF
4	0.671	4	0.501	0.20	0.197	6.68	9.02	73630	74750	99480	101000	1.10	8.0	13.8	FF
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 4	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