Test Performed by: .S. Asad Ali Gillani

PAVRON
Resident Engineer
MKTG Bajaur.
(Improvement/Up gradation of Road Mohmand Ghat-Khar-Timergara (Bajaur)-TorGhundai-Timaergara Including Existing/New By-Passes)

Client Reference No.: RE/TDP/2024/986 Dated: 20-04-2024

SOM Lab Ref: CED/SOM/4000 (Page 1/2) Dated: 25-04-2024

Test Type: Tensile Test & Bend Test

Sample Type: Steel Post, W -Section **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 (Post)	23.8 x 7.10	168.98	59.20	75.00	350.34	443.84	0.80	40.00
2 (W Section)	20.2 x 3.00	60.60	19.20	26.50	316.83	437.29	0.70	35.00
3 (Post)	Steel Post strip sample, Bend through 180 degrees satisfactorily without any crack							
4 (Post)	Steel Post strip sample, Bend through 180 degrees satisfactorily without any crack							
5 (W Section)	Steel W-Section strip sample, Bend through 180 degrees satisfactorily without any crack							
6 (W Section)	Steel W-Section 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

PAVRON
Resident Engineer
MKTG Bajaur.
(Improvement/Up gradation of Road Mohmand Ghat-Khar-Timergara (Bajaur)-TorGhundai-Timaergara Including Existing/New By-Passes)

Client Reference No.: RE/TDP/2024/986 Dated: 20-04-2024

SOM Lab Ref: CED/SOM/4000 (Page 2/2) Dated: 25-04-2024

Test Type: Hardness Test

Machine used: Avery Rockwell Hardness Testing Machine
(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness
1	Bolt (5.8Gr)	HR – 92.66– B
2	Nut (5.8Gr)	HR – 67.33 – B

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

Test Performed by: Dr.Asad Ali Gillani

Riaz Ahmad
GM National Technocommercial Services (Pvt) Ltd Lahore

Client Reference No.: NTS/DC-Hardness/DC/24 Dated: 25-04-2024

SOM Lab Ref: CED/SOM/4001(Page 1/1) Dated: 25-04-2024

Test Type: Hardness Test

Sample Type: Spring Steel (EN 42) Thickness 0.80 mm

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 140.0 kgf Scale: C)

Hardness Test Results

Sr #	Sample Type	Sample Size	Hardness Avg
1	Spring Steel	Thickness 0.80 mm	HR – 44.66 – C

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

Test Performed by: S. Asad Ali Gillani

Ahmet KoC
Resident Engineer
Diamer Basha Consultants Group (DBCG)
(Diamer Basha Dam Project, Dam Part and Tangir Hydropower Works)

Client Reference No.: BBCG/Lab/PFJV/2024/009 Dated: 26-02-2024

SOM Lab Ref: CED/SOM/4004 (Page 1/2) Dated: 25-04-2024

Test Type: Tensile Test Specification: ASTM-A 1064

Sample Type: Mesh Wire (150x150x6mm)

Tensile Test Results

Sr. No.	Sample Type	Diameter of Mesh Wire (mm)	X Section Area (mm^2)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	% Reduction Area
1	Mesh Wire	5.90	27.325	12.4	16.20	453.8	592.80	56.30
2	Mesh Wire	5.90	27.325	12.2	15.70	446.5	574.50	66.80

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

Test Performed by: S. Asad Ali Gillani

Ahmet KoC
Resident Engineer
Diamer Basha Consultants Group (DBCG)
(Diamer Basha Dam Project, Dam Part and Tangir Hydropower Works)

Client Reference No.: BBCG/Lab/PFJV/2024/009 Dated: 26-02-2024

SOM Lab Ref: CED/SOM/4004 (Page 2/2) Dated: 25-04-2024

Test Type: Weld Test

Sample Type: Mesh Wire (150x150x6mm)

Weld Test Results

Sr. No.	Sample Type	Welded Area (mm^2)	Ultimate Load (kN)	Shear Stress (MPa)
1	Mesh Wire (Dia 6mm)	20.417	3.20	156.7
2	Mesh Wire (Dia 6mm)	21.22	3.80	179.0

Test Type: Size Test

Sample Type: Mesh Wire (150x150x6mm)

Sr. No.	Sample Type	Size of Mesh Wire (mm)	Grid Size (mm)	Thickness of Wire (mm)
1	Mesh Wire	150x150x6	154.10 x 145.30	5.90

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

M/S S & S Associates **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Lahore (Extension of Washing Area & Boiler Located at Designtex

Client Reference: SS/TST/0020 **Dated:** 25-04-2024

SOM Lab Ref: CED/SOM/4006(Page-1/1) **Dated:** 25-04-2024

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

Sample Type: 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	3.854	25	25.00	491	491	296.00	378.20	603	603	770	771	27.5	200	13.8	
2	3.881	25	25.09	491	494	289.00	374.20	589	585	762	757	32.5	200	16.3	
3	2.449	20	19.93	314	312	133.70	212.50	426	429	676	682	35.0	200	17.5	
4	2.438	20	19.89	314	311	135.00	211.20	430	435	672	680	32.5	200	16.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: **Dr. /Engr.** Nauman Khurram

Client Reference: Nil
Dated: 25-04-2024

SOM Lab Ref: 3992 (Page-1/3)
Dated: 25-04-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Prime Steel Skp)

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	0.676	4	0.503	0.20	0.199	5.98	9.48	65990	66320	104540	105070	1.50	8.0	18.8	
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BEND TEST:

# 4	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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: **Dr. /Engr.** Nauman Khurram

Client Reference: Nil
Dated: 25-04-2024

SOM Lab Ref: 3992 (Page-2/3)
Dated: 25-04-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Prime Steel Skp)

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	1.408	6	0.726	0.44	0.414	11.28	18.35	56560	60120	91970	97750	1.30	8.0	16.3	
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BEND TEST:

# 6	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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: **Dr. /Engr.** Nauman Khurram

Client Reference: Nil
Dated: 25-04-2024

SOM Lab Ref: 3992 (Page-3/3)
Dated: 25-04-2024

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Prime Steel Skp)

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	1.445	6	0.736	0.44	0.425	13.53	20.54	67810	70200	102960	106590	1.20	8.0	15.0	
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BEND TEST:

# 6	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

M-Ashraf Javaid **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Project Incharge Ijaz Cotton Pvt Ltd.(Ijaz Cotton at 34KM Nabi Baksh Derozpur Road Lahore)

Client Reference: SST./First Floor Lantor+Beam&FF Coulmn`s **SOM Lab Ref:** 3993 (Page-1/1)

Dated: 24-04-2024 **Dated:** 25-04-2024

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	24.69	34.48	68930	70530	96250	98490	1.50	8.0	18.8	
2	2.629	8	0.992	0.79	0.773	24.67	34.72	68870	70390	96930	99060	1.50	8.0	18.8	
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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

M.Arslan Khaleel

Amanah Noor Residence Model Town, Lahore.

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

Client Reference: Nil

Dated: 25-04-2024

SOM Lab Ref: 3994 (Page-1/1)

Dated: 25-04-2024

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	2.631	8	0.992	0.79	0.773	27.83	34.15	77690	79400	95340	97430	1.50	8.0	18.8	
2	1.462	6	0.740	0.44	0.430	14.29	18.37	71640	73300	92070	94220	1.30	8.0	16.3	
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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

Rameez Dilshad,XEN **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

GE(Army)-II Slk.(Const Of 8xSlders Flats (G+3),10 BR-HQ Clover Bde at Lhr Cantt)

Client Reference: 6669/22/E-6 **SOM Lab Ref:** 3995 (Page-1/2)

Dated: 28-02-2024 **Dated:** 25-04-2024

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	2.690	8	1.004	0.79	0.791	25.45	34.73	71060	70970	96960	96830	1.60	8.0	20.0	
2	2.684	8	1.002	0.79	0.789	26.40	35.65	73710	73800	99520	99640	1.60	8.0	20.0	
3	1.496	6	0.748	0.44	0.440	14.60	19.18	73170	73170	96160	96160	1.50	8.0	18.8	
4	1.492	6	0.747	0.44	0.438	14.60	19.22	73170	73500	96320	96750	1.60	8.0	20.0	
5	1.075	5	0.634	0.31	0.316	10.27	13.83	73030	71650	98410	96540	1.20	8.0	15.0	
6	1.034	5	0.622	0.31	0.304	9.84	13.43	69990	71370	95510	97400	1.10	8.0	13.8	
7	0.668	4	0.500	0.20	0.196	6.47	8.79	71380	72840	96900	98880	1.00	8.0	12.5	
8	0.665	4	0.498	0.20	0.195	6.65	8.74	73290	75170	96340	98810	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
# 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 Tested

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

Rameez Dilshad,XEN **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

GE(Army)-II Slk.(Const Of 8xSlders Flats (G+3),10 BR-HQ Clover Bde at Lhr Cantt)

Client Reference: 6669/22/E-6 **SOM Lab Ref:** 3995 (Page-2/2)

Dated: 28-02-2024 **Dated:** 25-04-2024

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	0.673	4	0.502	0.20	0.198	4.61	6.37	50810	51330	70260	70970	1.50	8.0	18.8	
2	0.668	4	0.500	0.20	0.196	4.56	6.29	50250	51280	69360	70770	1.40	8.0	17.5	
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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

Bilal Hayder, CEO **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

T.P.M.C Lahore.(Sehgal Motor`s Auto 200 Commercial Building Tamn Stop Bedian Road Lahore)

Client Reference: Nil **SOM Lab Ref:** 3996 (Page-1/1)

Dated: 25-04-2024 **Dated:** 25-04-2024

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	1.478	6	0.743	0.44	0.434	13.88	17.91	69590	70560	89780	91020	1.40	8.0	17.5	
2	0.661	4	0.497	0.20	0.194	7.36	8.94	81160	83670	98580	101630	1.10	8.0	13.8	
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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

Shahid Mumtaz **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Head Project (Lucky Core Industries) LCI. Distt Jhelum.

Client Reference: Nil **SOM Lab Ref:** 3997-3998(P-1/2)

Dated: 24-04-2024 **Dated:** 25-04-2024

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	2.617	8	0.990	0.79	0.769	24.49	32.98	68360	70220	92060	94580	1.50	8.0	18.8	LCI 1242
2	2.642	8	0.994	0.79	0.776	24.62	33.30	68730	69970	92970	94650	1.60	8.0	20.0	LCI 1242
3	0.669	4	0.501	0.20	0.197	6.83	8.53	75320	76460	94090	95520	1.10	8.0	13.8	LCI 1242
4	0.668	4	0.500	0.20	0.196	6.73	8.41	74190	75710	92740	94630	1.20	8.0	15.0	LCI 1242
5	2.597	8	0.986	0.79	0.763	24.46	31.98	68300	70720	89270	92430	1.70	8.0	21.3	LCI 1310
6	2.586	8	0.984	0.79	0.760	24.64	33.00	68790	71500	92120	95760	1.60	8.0	20.0	LCI 1310
7	1.648	6	0.785	0.44	0.484	15.46	20.76	77510	70470	104080	94620	1.60	8.0	20.0	LCI 1310
8	1.645	6	0.784	0.44	0.483	15.31	20.59	76750	69910	103210	94020	1.60	8.0	20.0	LCI 1310
9	0.411	3	0.393	0.11	0.121	3.77	5.17	75620	68750	103620	94200	1.40	8.0	17.5	LCI 1310
10	0.415	3	0.394	0.11	0.122	3.74	5.15	75010	67630	103210	93060	1.40	8.0	17.5	LCI 1310

BEND TEST:

Sr.# (1)	Sample bend through 180 degrees Satisfactorily without any crack
Sr.# (3)	Sample bend through 180 degrees Satisfactorily without any crack
Sr.# (5)	Sample bend through 180 degrees Satisfactorily without any crack
Sr.# (7)	Sample bend through 180 degrees Satisfactorily without any crack
Sr.# (9)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Fifteen Samples Received and Tested

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

Shahid Mumtaz **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Head Project (Lucky Core Industries) LCI. Distt Jhelum.

Client Reference: Nil **SOM Lab Ref:** 3997-3998(P-2/2)

Dated: 24-04-2024 **Dated:** 25-04-2024

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	1.034	5	0.622	0.31	0.304	9.70	13.35	69040	70410	95000	96880	1.50	8.0	18.8	LCI 1311
2	1.056	5	0.628	0.31	0.310	9.99	13.43	71070	71070	95510	95510	1.30	8.0	16.3	LCI 1311
3	0.660	4	0.497	0.20	0.194	6.39	8.36	70480	72660	92180	95030	1.30	8.0	16.3	LCI 1311
4	0.664	4	0.498	0.20	0.195	6.57	8.43	72510	74360	92960	95350	1.20	8.0	15.0	LCI 1311
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BEND TEST:

Sr.# (1)	Sample bend through 180 degrees Satisfactorily without any crack
Sr.# (3)	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

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

Dy.Dir(QCD) WASA,LDA,Lhr.(Manufactring of R.C.C Covers WASA L.D.A Lahore)

Client Reference: QCD/536-37 **SOM Lab Ref:** 3999 (Page-1/1)

Dated: 23-04-2024 **Dated:** 25-04-2024

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	0.678	4	0.503	0.20	0.199	6.01	8.02	66320	66660	88470	88910	1.20	8.0	15.0	
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BEND TEST:

# 4	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

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

Nespak EPCM-PICIIP Sahiwal.(Parking Sheds in Sahiwal & Sialkot)

Client Reference: 3976/11/MS/SWL/Sheds/01/1158 **SOM Lab Ref:** 4003 (Page-1/2)

Dated: 19-04-2024 **Dated:** 25-04-2024

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	0.660	4	0.497	0.20	0.194	5.73	8.66	63180	65130	95550	98500	1.20	8.0	15.0	
2	0.661	4	0.497	0.20	0.194	5.73	8.63	63180	65130	95210	98160	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

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

Nespak EPCM-PICIIP Sahiwal.(Parking Sheds in Sahiwal & Sialkot)

Client Reference: 3976/11/MS/SWL/Sheds/01/1157 **SOM Lab Ref:** 4003 (Page-2/2)

Dated: 19-04-2024 **Dated:** 25-04-2024

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	1.471	6	0.742	0.44	0.432	14.22	19.01	71280	72600	95290	97060	1.50	8.0	18.8	
2	1.494	6	0.748	0.44	0.439	14.14	18.98	70870	71030	95140	95360	1.20	8.0	15.0	
3	0.661	4	0.497	0.20	0.194	6.65	8.51	73290	75560	93860	96770	1.30	8.0	16.3	
4	0.672	4	0.501	0.20	0.197	6.93	8.89	76440	77600	98020	99510	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

Ashar Younis,Assistant Engr **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Evacuee Trust Property Board GOP.(Reconstruction of Valmik Mandir, Neela Gumbad, Lahore)

Client Reference: 2365 **SOM Lab Ref:** 4005 (Page-1/1)

Dated: 02-04-2024 **Dated:** 25-04-2024

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	1.479	6	0.744	0.44	0.435	12.69	18.65	63620	64350	93510	94580	1.30	8.0	16.3	
2	0.668	4	0.500	0.20	0.196	6.49	8.66	71610	73070	95550	97500	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

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

Const. Manager. Ittefaq Building Solution (Pvt)Ltd.(Mr.Chugtai House Lahore Cantt)

Client Reference: Nil **SOM Lab Ref:** 4007 (Page-1/1)

Dated: 25-04-2024 **Dated:** 25-04-2024

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	2.660	8	0.998	0.79	0.782	24.06	33.89	67160	67850	94620	95590	1.30	8.0	16.3	
2	2.652	8	0.996	0.79	0.779	23.82	33.66	66510	67450	93970	95300	1.50	8.0	18.8	
3	1.473	6	0.743	0.44	0.433	14.07	19.39	70510	71650	97180	98750	1.30	8.0	16.3	
4	1.479	6	0.744	0.44	0.435	14.90	21.27	74700	75560	106640	107860	1.20	8.0	15.0	
5	0.643	4	0.491	0.20	0.189	6.09	8.23	67110	71020	90720	95990	1.10	8.0	13.8	
6	0.642	4	0.491	0.20	0.189	6.09	8.23	67110	71020	90720	95990	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