Test Performed by: .S. Asad Ali Gillani

Abid Rauf
Resident Engineer
NESPAK Gujranwala.
(Const Of Dual Carriageway From GT Road To Lahore-Sialkot Motorway
L = 15.20 Km,Distt Gujranwala)

Client Reference No.: 103/EW/GRW/AR/Lab/43 Dated: 23-01-2024

SOM Lab Ref: CED/SOM/3591 (Page 1/2) Dated: 30-01-2024

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

Sample Type: W Beam Steel Rail, Steel Post **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 (W Beam)	21.1x 3.3	69.63	26.20	34.70	376.27	498.35	0.50	25.00
2 (W Beam)	21.1x 3.4	71.74	27.20	34.50	379.15	480.90	0.60	30.00
3 (Post)	24.1x 7.1	171.11	65.20	73.70	381.04	430.72	0.60	30.00
4 (Post)	24.0x 7.1	170.40	63.00	78.00	369.72	457.75	0.50	25.00
5 (W Beam)	Steel plate strip sample, Bend through 180 degrees satisfactorily without any crack							
6 (Post)	Steel plate 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

Abid Rauf
Resident Engineer
NESPAK Gujranwala.
(Const Of Dual Carriageway From GT Road To Lahore-Sialkot Motorway
L = 15.20 Km,Distt Gujranwala)

Client Reference No.: 103/EW/GRW/AR/Lab/43 Dated: 23-01-2024

SOM Lab Ref: CED/SOM/3591 (Page 2/2) Dated: 30-01-2024

Test Type: Tensile Test

Sample Type: Splice Bolt (15.9mm) **Gauge Length:** 1 inches

Tensile Test Results

Sr. No.	Tested Diameter of Bolt (mm)	X Section Area (mm^2)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	11.0	95.03	87.5	920.76	0.25	25.0

Engr.Ejaz Ali Bukhari,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

ACC Site Office KPDI.(Const Of Kot Pindi Das Interchange On Lahore-Islamabad Motorway)

Client Reference: KPD/QAI/RE/23/85 **Dated:** 25-01-2024

SOM Lab Ref: CED/SOM/3600(Page-1/1) **Dated:** 30-01-2024

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	2.401	20	19.74	314	306	153.20	212.00	488	501	675	693	32.5	200	16.3	
2	2.405	20	19.75	314	306	149.70	207.50	477	489	660	678	35.0	200	17.5	
3	1.537	16	15.79	201	196	98.70	136.50	491	505	679	698	30.0	200	15.0	
4	1.528	16	15.74	201	195	116.00	164.50	577	597	818	846	30.0	200	15.0	
5	0.960	12	12.48	113	122	61.20	82.20	541	501	727	673	27.5	200	13.8	
6	0.963	12	12.50	113	123	61.70	82.50	546	503	729	673	30.0	200	15.0	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

KAY & EMMS (Pvt) Ltd.
Faisalabad.

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

Client Reference: Nil
Dated: 30-01-2024

SOM Lab
Ref: 3590(Page-1/1)
Dated: 30-01-2024

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

Test Specification: ASTM-A-615
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	2.601	8	0.986	0.79	0.764	25.76	33.71	71920	74360	94110	97310	1.50	8.0	18.8	
2	2.591	8	0.984	0.79	0.761	25.38	33.71	70860	73560	94110	97700	1.40	8.0	17.5	
3	1.479	6	0.744	0.44	0.435	14.37	18.96	72050	72870	95040	96130	1.20	8.0	15.0	
4	1.481	6	0.744	0.44	0.435	14.27	19.16	71540	72360	96060	97160	1.20	8.0	15.0	
5	0.670	4	0.501	0.20	0.197	6.60	8.58	72730	73840	94650	96090	1.20	8.0	15.0	
6	0.680	4	0.505	0.20	0.200	6.65	8.69	73290	73290	95770	95770	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
# 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

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

PE Prosperity Consultants Lhr.(EPC/Turnkey Basis Of 132/11.5 KV Grid Station #1 DHA Gujranwala)

SOM Lab

Client Reference: DHA Guj/GRID/876 **Ref:** 3592 (Page-1/1)

Dated: 29-01-2024 **Dated:** 30-01-2024

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	2.605	8	0.988	0.79	0.766	26.96	34.61	75270	77630	96620	99640	1.30	8.0	16.3	
2	2.667	8	0.999	0.79	0.784	25.89	34.32	72290	72840	95820	96550	1.20	8.0	15.0	
3	0.674	4	0.502	0.20	0.198	7.10	9.09	78350	79140	100270	101280	1.10	8.0	13.8	
4	0.672	4	0.501	0.20	0.197	6.93	8.87	76440	77600	97800	99290	1.20	8.0	15.0	
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BEND TEST:

# 8	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

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

MSD No.II,GOR-III Lhr.(Const Of Multistorey Building For Residences For Staff Colony at Chauburgi)

Client Reference: 243sd/Gor-III,Lhr **SOM Lab Ref:** 3593 (Page-1/1)

Dated: 27-12-2023 **Dated:** 30-01-2024

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	2.706	8	1.006	0.79	0.795	30.65	37.79	85570	85040	105490	104830	1.40	8.0	17.5	
2	2.705	8	1.006	0.79	0.795	29.94	37.99	83580	83060	106060	105400	1.50	8.0	18.8	
3	1.512	6	0.752	0.44	0.444	15.01	20.03	75210	74540	100400	99500	1.40	8.0	17.5	
4	1.511	6	0.752	0.44	0.444	15.09	20.08	75620	74940	100660	99750	1.30	8.0	16.3	
5	0.666	4	0.500	0.20	0.196	6.52	8.79	71940	73410	96900	98880	1.10	8.0	13.8	
6	0.066	4	0.156	0.20	0.019	6.12	8.38	67450	709930	92400	972600	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

M.Waqas Anwar,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Lahore.(Dev Of a Controlled Access Corridor Facility From Niazi Interchange to Babu Sabu)

SOM Lab

Client Reference: 3772/103/NBI(P-II)/MWA/04/225 **Ref:** 3594 (Page-1/3)

Dated: 17-01-2024 **Dated:** 30-01-2024

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	1.500	6	0.749	0.44	0.441	13.17	20.31	66020	65870	101780	101550	1.40	8.0	17.5	
2	1.489	6	0.747	0.44	0.438	12.97	20.18	65000	65290	101170	101630	1.30	8.0	16.3	
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BEND TEST:

# 6	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.Waqas Anwar,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Lahore.(Dev Of a Controlled Access Corridor Facility From Niazi Interchange to Babu Sabu)

Client Reference: 3772/103/NBI(P-II)/MWA/04/224 **SOM Lab Ref:** 3594 (Page-2/3)

Dated: 17-01-2024 **Dated:** 30-01-2024

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	1.029	5	0.620	0.31	0.302	8.74	13.71	62150	63800	97540	100130	1.30	8.0	16.3	
2	1.036	5	0.622	0.31	0.304	8.77	13.53	62370	63600	96240	98140	1.20	8.0	15.0	
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BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Five Samples Received and Tested

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

M.Waqas Anwar,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Nespak Lahore.(Dev Of a Controlled Access Corridor Facility From Niazi Interchange to Babu Sabu)

SOM Lab

Client Reference: 3772/103/NBI(P-II)/MWA/04/223 **Ref:** 3594 (Page-3/3)

Dated: 17-01-2024 **Dated:** 30-01-2024

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	0.683	4	0.506	0.20	0.201	6.07	8.77	66890	66550	96670	96190	1.10	8.0	13.8	
2	0.683	4	0.506	0.20	0.201	5.98	8.69	65990	65660	95770	95300	1.10	8.0	13.8	
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BEND TEST:

# 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

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

ECSP Jinnah Hospital Lahore.(Const Of Supervision For Revamping Of Jinnah Hospital)

SOM Lab

Client Reference: ECSP/RE/387/04 **Ref:** 3595 (Page-1/1)

Dated: 21-01-2024 **Dated:** 30-01-2024

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	2.561	8	0.979	0.79	0.753	24.82	34.78	69300	72700	97100	101870	1.40	8.0	17.5	
2	2.595	8	0.986	0.79	0.763	24.46	34.40	68300	70720	96050	99450	1.30	8.0	16.3	
3	1.496	6	0.748	0.44	0.440	14.27	19.01	71540	71540	95290	95290	1.40	8.0	17.5	
4	1.497	6	0.748	0.44	0.440	14.12	19.01	70770	70770	95290	95290	1.00	8.0	12.5	
5	0.666	4	0.500	0.20	0.196	6.07	8.39	66890	68250	92510	94400	1.50	8.0	18.8	
6	0.664	4	0.498	0.20	0.195	6.01	8.36	66320	68020	92180	94540	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
# 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

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

RE 4376-E NESPAK.(Dualization Of Sargodha Khushab Mianwali Road Group-I)

Client Reference: RE/4376-E/SMH/4a/263 **SOM Lab Ref:** 3596 (Page-1/1)

Dated: 24-03-2023 **Dated:** 30-01-2024

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	2.688	8	1.003	0.79	0.790	29.38	35.12	82020	82020	98040	98040	1.30	8.0	16.3	Sheikhoo
2	2.717	8	1.008	0.79	0.798	26.91	33.59	75130	74380	93770	92830	1.40	8.0	17.5	Sheikhoo
3	1.481	6	0.744	0.44	0.435	14.60	19.11	73170	74010	95800	96910	1.20	8.0	15.0	Sheikhoo
4	1.491	6	0.747	0.44	0.438	14.70	19.13	73680	74020	95910	96340	1.50	8.0	18.8	Sheikhoo
5	1.504	6	0.750	0.44	0.442	14.09	18.45	70620	70300	92480	92060	1.20	8.0	15.0	Pak
6	1.515	6	0.753	0.44	0.445	14.53	18.73	72810	71990	93860	92810	1.30	8.0	16.3	Pak
7	0.666	4	0.500	0.20	0.196	6.95	8.94	76660	78230	98580	100600	1.20	8.0	15.0	Pak
8	0.672	4	0.501	0.20	0.197	6.85	8.89	75540	76690	98020	99510	1.30	8.0	16.3	Pak
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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
# 6	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

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

NESPAK.(Rehb of Road From Kot Radha Kishan to Kasur Length = 31.00 Km)

Client Reference: 3811/103/MUR104/1129 **SOM Lab Ref:** 3597 (Page-1/1)

Dated: 17-01-2024 **Dated:** 30-01-2024

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	2.719	8	1.009	0.79	0.799	26.07	33.51	72770	71950	93540	92490	1.50	8.0	18.8	
2	2.706	8	1.006	0.79	0.795	25.69	33.30	71720	71270	92970	92390	1.40	8.0	17.5	
3	1.497	6	0.748	0.44	0.440	13.35	18.47	66940	66940	92590	92590	1.30	8.0	16.3	
4	1.495	6	0.748	0.44	0.439	13.43	18.55	67290	67450	92990	93210	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

Khalid Yousaf,ARE **Test Performed By:** **Dr. /Engr.** Irfan Ul Hassan

MMP Pkg-01 Jhelum.(Rehb/Construction of Altaf Park Jhelum City,Pkg#01,under PCP)

SOM Lab

Client Reference: ARE/JHE/AP/MC-05 **Ref:** 3598 (Page-1/1)

Dated: 29-01-2024 **Dated:** 30-01-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Ittefaq 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	1.474	6	0.743	0.44	0.433	14.48	18.83	72560	73730	94370	95900	1.30	8.0	16.3	
2	1.485	6	0.745	0.44	0.436	14.75	19.01	73940	74610	95290	96170	1.40	8.0	17.5	
3	0.668	4	0.500	0.20	0.196	7.29	8.36	80370	82010	92180	94060	1.00	8.0	12.5	
4	0.666	4	0.500	0.20	0.196	6.90	8.23	76100	77660	90720	92570	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 Six Samples Received and Tested

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

Yousaf Zaman,PM/RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Osmani &Compny,Pakpattan.(Engg Design & Const.Supervision For PRSWSSP Cluster Central II)

Client Reference: PM/OCL/PRSWSSP/EDCS/Pkg-5/23/13 **SOM Lab Ref:** 3599 (Page-1/1)

Dated: 30-01-2024 **Dated:** 30-01-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Markhor 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	2.634	8	0.993	0.79	0.774	23.36	33.54	65230	66580	93630	95560	1.40	8.0	17.5	
2	2.665	8	0.998	0.79	0.783	22.73	33.33	63460	64030	93060	93890	1.40	8.0	17.5	
3	1.525	6	0.755	0.44	0.448	13.93	19.93	69850	68600	99890	98110	1.30	8.0	16.3	
4	1.503	6	0.750	0.44	0.442	14.07	19.78	70510	70190	99130	98680	1.40	8.0	17.5	
5	0.672	4	0.501	0.20	0.197	6.57	8.82	72510	73610	97230	98720	1.10	8.0	13.8	
6	0.675	4	0.502	0.20	0.198	6.34	8.99	69920	70630	99150	100150	1.20	8.0	15.0	
7	0.375	3	0.374	0.11	0.110	3.36	5.17	67450	67450	103620	103620	1.00	8.0	12.5	
8	0.373	3	0.374	0.11	0.110	3.38	5.20	67860	67860	104230	104230	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
# 4	Sample bend through 180 degrees Satisfactorily without any crack
# 3	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

Yousaf Zaman,PM/RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Osmani &Compny,Pakpattan.(Engg Design & Const.Supervision For PRSWSSP Cluster Central II)

SOM Lab

Client Reference: PM/OCL/PRSWSSP/EDCS/Pkg-04/23/12 **Ref:** 3601 (Page-1/1)

Dated: 30-01-2024 **Dated:** 30-01-2024

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	2.653	8	0.997	0.79	0.780	26.63	35.09	74330	75290	97950	99210	1.20	8.0	15.0	
2	1.482	6	0.745	0.44	0.436	15.60	19.47	78180	78890	97590	98490	1.30	8.0	16.3	
3	0.676	4	0.503	0.20	0.199	6.78	8.77	74750	75130	96670	97160	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 Six Samples Received and Tested

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

Yousaf Zaman,PM/RE **Test Performed By:** **Dr. /Engr.** Irfan Ul Hassan

Osmani &Compny,Pakpattan.(Engg Design & Const.Supervision For PRSWSSP Cluster Central II)

SOM Lab

Client Reference: PM/OCL/PRSWSSP/EDCS/Pkg-07/23/14 **Ref:** 3602 (Page-1/1)

Dated: 30-01-2024 **Dated:** 30-01-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Sheikhu 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	2.641	8	0.994	0.79	0.776	26.47	33.97	73910	75240	94820	96530	1.30	8.0	16.3	
2	1.497	6	0.748	0.44	0.440	14.48	19.88	72560	72560	99640	99640	1.30	8.0	16.3	
3	0.675	4	0.502	0.20	0.198	6.85	8.97	75540	76300	98920	99920	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 Six Samples Received and Tested

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