Test Performed by: Dr. Asad Ali Gillani

Engr. Farrukh Alvi,
Dy.General Manager (Works)
Habib Rafiq Engineering (Pvt.) Ltd, Lahore
(101 Tower, Lahore)

Client Reference No.: HRLE/SKG/2025/L-19/90-12/235(Re-Test #4) Dated: 02-10-2025

SOM Lab Ref: CED/SOM/1869(Page-1/1) Dated: 02-10-2025

Test: Tensile Test

Sample Type: M.S Deformed Steel bar with Coupler (Zahid Engineering)

Tension Test Results

Sr. No.	Bar Size	Area	Yield Load	Ultimate Load	Yield Stress	Ultimate stress	Remarks
	(mm)	(mm^2)	kN	kN	(Mpa)	(Mpa)	
1	12	113	47.2	62.9	418	557	Steel Sample breaks at this load
2	12	113	60.5	68.5	535	606	Steel Sample breaks at this load

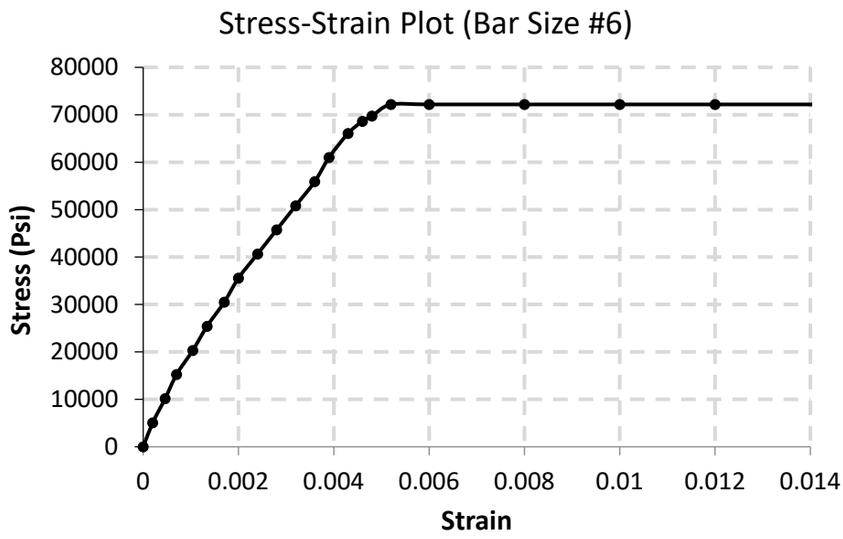
Note: Please always confirm the results on web www.uet-civil.edu.pk

Test Performed by: Dr. S. Asad Ali Gillani

Muhammad Shabbir Sandhu,
Material Engineer
NESPAK, EPCM Consultant Sahiwal.
(WWTP/ICB/PICIIP-08A Sahiwal)

Client Reference No. 3976/11/MMA/SWL/WWTP/01/405 Dated: 01-10-2025
SOM Lab Ref: CED/SOM/1876 (Page – 2/4) Dated: 02-10-2025

Sample # 4* **Graph**

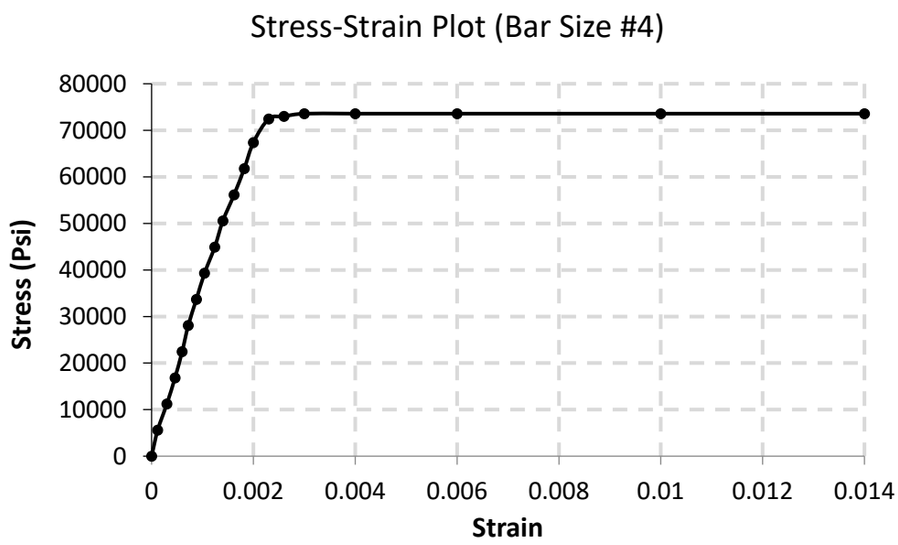


Test Performed by: Dr. S. Asad Ali Gillani

Muhammad Shabbir Sandhu,
Material Engineer
NESPAK, EPCM Consultant Sahiwal.
(WWTP/ICB/PICIIP-08A Sahiwal)

Client Reference No. 3976/11/MMA/SWL/WWTP/01/362 Dated: 18-09-2025
SOM Lab Ref: CED/SOM/1876 (Page – 4/4) Dated: 02-10-2025

Sample # 4* **Graph**



Memar Associates
Canal Road Faisalabad.(UBL Susan Road,Fsd)

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

Client Reference: Memar/UBL/S-02
Dated: 01-10-2025

SOM Lab Ref: 1870 (Page-1/2)
Dated: 02-10-2025

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

Test Specification: ASTM-A-615
Sample Type: 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)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.589	8	0.984	0.79	0.761	23.72	32.52	66220	68750	90780	94240	1.60	8.0	20.0	
2	2.604	8	0.987	0.79	0.765	23.67	32.64	66080	68240	91120	94100	1.50	8.0	18.8	
3	1.470	6	0.742	0.44	0.432	13.88	18.71	69590	70880	93760	95500	1.20	8.0	15.0	
4	1.482	6	0.745	0.44	0.436	13.97	18.86	70000	70640	94530	95390	1.30	8.0	16.3	
5	0.663	4	0.498	0.20	0.195	6.24	8.48	68800	70560	93530	95920	1.30	8.0	16.3	
6	0.662	4	0.498	0.20	0.195	6.32	8.51	69700	71480	93860	96270	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
# 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

Memar Associates
Canal Road Faisalabad.(UBL Wapda City,Fsd)

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

Client Reference: Memar/UBL/WC02
Dated: 01-10-2025

SOM Lab Ref: 1870 (Page-2/2)
Dated: 02-10-2025

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

Test Specification: ASTM-A-615
Sample Type: 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)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.582	8	0.983	0.79	0.759	23.24	32.08	64890	67540	89560	93220	1.60	8.0	20.0	
2	2.696	8	1.004	0.79	0.792	24.72	34.02	69010	68840	94970	94730	1.60	8.0	20.0	
3	1.473	6	0.743	0.44	0.433	13.88	18.83	69590	70720	94370	95900	1.30	8.0	16.3	
4	1.471	6	0.742	0.44	0.432	14.04	18.86	70360	71660	94530	96280	1.20	8.0	15.0	
5	0.659	4	0.497	0.20	0.194	6.27	8.41	69130	71270	92740	95610	1.30	8.0	16.3	
6	0.655	4	0.494	0.20	0.192	6.19	8.43	68230	71080	92960	96840	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
# 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

Engr.Saqib Anwar **Test Performed By:** **Dr. /Engr.** Bilal khokhar

Consultant Engineer Atiq Associates. Leathertex Gloving (Pvt) Ltd.(Const Of Dyeing Unit at 8 KM Ferozpur Rd Kasur)

Client Reference: Nil **SOM Lab Ref:** 1871 (Page-1/1)

Dated: Nil **Dated:** 02-10-2025

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

Gauge Length: 8 inch **Sample Type:** 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)				
	lb/ft	#	in	in^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.656	8	0.997	0.79	0.781	27.27	34.17	76130	77000	95390	96490	1.40	8.0	17.5	
2	2.659	8	0.997	0.79	0.781	28.05	34.76	78320	79220	97040	98160	1.30	8.0	16.3	
3	1.476	6	0.743	0.44	0.434	16.02	18.76	80320	81430	94020	95320	1.30	8.0	16.3	
4	1.483	6	0.745	0.44	0.436	16.23	18.93	81340	82090	94880	95760	1.20	8.0	15.0	
5	0.678	4	0.503	0.20	0.199	6.80	8.56	74980	75360	94420	94900	1.30	8.0	16.3	
6	0.672	4	0.501	0.20	0.197	7.36	8.94	81160	82400	98580	100080	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

Note:-

Only Nine Samples Received and Tested

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

Engr. Mehar Ali Qurashi **Test Performed By:** **Dr. /Engr.** Bilal Khokhar

RE Alhamra Town Lahore.(Const Of Main Enterance Gate at Al Hamra Town Lahore)

Client Reference: ALHM/EG/7324 **SOM Lab Ref:** 1872 (Page-1/1)

Dated: 30-09-2025 **Dated:** 02-10-2025

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	1.494	6	0.748	0.44	0.439	13.61	18.32	68210	68370	91820	92030	1.40	8.0	17.5	
2	0.660	4	0.497	0.20	0.194	6.52	8.12	71940	74170	89590	92360	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

Fahad Hussain, ME **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

ECSP Murree.(Revamping Of Bansra Gali Zoological Garden, Murree)

Client Reference: 446/ECSP/RBM/05/FH/09 **SOM Lab Ref:** 1873 (Page-1/1)

Dated: 10-10-2025 **Dated:** 02-10-2025

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	1.504	6	0.750	0.44	0.442	13.68	21.27	68570	68260	106640	106150	1.40	8.0	17.5	
2	1.480	6	0.744	0.44	0.435	13.78	21.87	69080	69880	109600	110860	1.40	8.0	17.5	
3	0.665	4	0.498	0.20	0.195	5.93	9.09	65420	67100	100270	102840	1.30	8.0	16.3	
4	0.646	4	0.492	0.20	0.190	6.01	8.51	66320	69810	93860	98800	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

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

ECSP Changa Manga Kasur.(Const Of Master Planning Implementation for ECO-Tourism at Changa Manga & Wetland)

Client Reference: RE/ECSP/CHNGAPARK/03 **SOM Lab Ref:** 1874 (Page-1/1)

Dated: 01-10-2025 **Dated:** 02-10-2025

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	2.735	8	1.012	0.79	0.804	24.64	33.46	68790	67590	93400	91770	1.30	8.0	16.3	
2	2.737	8	1.012	0.79	0.804	24.72	33.54	69010	67810	93630	92000	1.40	8.0	17.5	
3	1.492	6	0.747	0.44	0.438	14.42	19.47	72300	72630	97590	98040	1.40	8.0	17.5	
4	1.487	6	0.746	0.44	0.437	14.37	19.44	72050	72540	97440	98110	1.30	8.0	16.3	
5	0.651	4	0.493	0.20	0.191	5.98	8.33	65990	69100	91840	96170	1.40	8.0	17.5	
6	0.651	4	0.493	0.20	0.191	6.03	8.43	66550	69680	92960	97340	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
# 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

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

ER Nespak Lahore.(Expansion of Terminal Building and Alled Facilities at AIIAP Lahore)

Client Reference: 3043/50Q/MSB/108/1509 **SOM Lab Ref:** 1875 (Page-1/1)

Dated: 01-10-2025 **Dated:** 02-10-2025

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Kamran 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	1.505	6	0.750	0.44	0.442	13.35	19.27	66940	66630	96570	96130	1.40	8.0	17.5	
2	1.501	6	0.749	0.44	0.441	13.00	19.11	65150	65000	95800	95590	1.50	8.0	18.8	
3	1.504	6	0.750	0.44	0.442	13.10	19.27	65660	65360	96570	96130	1.50	8.0	18.8	
4	1.506	6	0.751	0.44	0.443	13.10	19.22	65660	65210	96320	95660	1.40	8.0	17.5	
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Witnessed By: M.Asif (M.E NESPAK), Ijaz-Ul-Haq (CCECC)

BEND TEST:

# 6	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 Shabbir Sandhu,ME **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
NESPAK,EPCM Consultant Sahiwal.(WWTP/ICB/PICIIP-08A Sahiwal)

Client Reference: 3976/11/MMA/SWL/WWTP/01/405 **SOM Lab Ref:** 1876 (Page-1/4)
Dated: 01-10-2025 **Dated:** 02-10-2025

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	1.462	6	0.740	0.44	0.430	14.39	19.22	72150	73830	96320	98550	1.50	8.0	18.8	
2	1.527	6	0.756	0.44	0.449	15.29	20.18	76640	75110	101170	99140	1.40	8.0	17.5	
3	1.466	6	0.741	0.44	0.431	14.48	18.88	72560	74070	94630	96610	1.30	8.0	16.3	
4	1.461	6	0.739	0.44	0.429	14.48	18.81	72560	74420	94270	96690	1.50	8.0	18.8	
5	0.658	4	0.496	0.20	0.193	6.68	8.53	73630	76300	94090	97500	1.30	8.0	16.3	
6	0.659	4	0.497	0.20	0.194	7.24	9.07	79810	82280	100050	103140	1.20	8.0	15.0	
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BEND TEST:

# 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 Nine Samples Received and Tested

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

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

ME NESPAK,EPCM Consultant Sahiwal.(WWTP/ICB/PICIIP-08A Sahiwal)

Client Reference: 3976/11/MMA/SWL/WWTP/01/362 **SOM Lab Ref:** 1876 (Page-3/4)

Dated: 18-09-2025 **Dated:** 02-10-2025

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	1.473	6	0.743	0.44	0.433	14.42	19.34	72300	73470	96930	98500	1.40	8.0	17.5	
2	1.478	6	0.743	0.44	0.434	13.99	19.08	70100	71070	95650	96970	1.50	8.0	18.8	
3	0.654	4	0.494	0.20	0.192	7.24	8.97	79810	83140	98920	103040	1.10	8.0	13.8	
4	0.656	4	0.496	0.20	0.193	6.68	8.61	73630	76300	94990	98430	1.40	8.0	17.5	
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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

Muhammad Shabbir Sandhu,ME **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
NESPAK,EPCM Consul Swl.(WWTP/ICB/PICIIP-08A Sahiwal)

Client Reference: 3976/11/MMA/SWL/WWTP/01/361 **SOM Lab Ref:** 1877 (Page-1/3)
Dated: 18-10-2025 **Dated:** 02-10-2025

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	1.493	6	0.748	0.44	0.439	14.42	19.34	72300	72470	96930	97150	1.30	8.0	16.3	
2	1.482	6	0.745	0.44	0.436	14.19	18.83	71130	71780	94370	95240	1.40	8.0	17.5	
3	0.685	4	0.506	0.20	0.201	7.56	9.30	83410	82990	102520	102010	1.20	8.0	15.0	
4	0.651	4	0.493	0.20	0.191	7.21	8.97	79470	83220	98920	103580	1.30	8.0	16.3	
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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

Muhammad Shabbir Sandhu,ME **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
NESPAK,EPCM Consul Swl.(WWTP/ICB/PICIIP-08A Sahiwal)

Client Reference: 3976/11/MMA/SWL/WWTP/01/403 **SOM Lab Ref:** 1877 (Page-2/3)
Dated: 01-10-2025 **Dated:** 02-10-2025

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	1.479	6	0.744	0.44	0.435	14.14	18.98	70870	71690	95140	96230	1.40	8.0	17.5	
2	1.473	6	0.743	0.44	0.433	14.17	19.03	71020	72170	95400	96940	1.50	8.0	18.8	
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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

Muhammad Shabbir Sandhu,ME **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
NESPAK,EPCM Consul Swl.(WWTP/ICB/PICIIP-08A Sahiwal)

Client Reference: 3976/11/MMA/SWL/WWTP/01/404 **SOM Lab Ref:** 1877 (Page-3/3)
Dated: 01-10-2025 **Dated:** 02-10-2025

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	1.476	6	0.743	0.44	0.434	14.78	19.67	74090	75110	98610	99980	1.50	8.0	18.8	
2	1.466	6	0.741	0.44	0.431	14.37	19.44	72050	73550	97440	99470	1.40	8.0	17.5	
3	0.685	4	0.506	0.20	0.201	7.56	9.30	83410	82990	102520	102010	1.20	8.0	15.0	
4	0.664	4	0.498	0.20	0.195	7.46	9.17	82290	84390	101170	103760	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