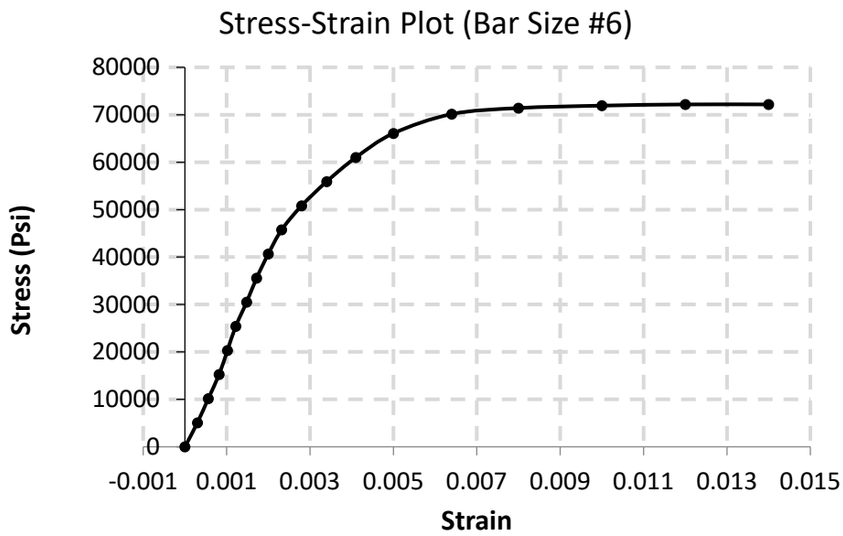
Test Performed by: Dr. S. Asad Ali Gillani

Muhammad Shabbir Sandhu,
Material Engineer
NESPAK, EPCM Consultant Sahiwal.
(Trunk Main Sewer Conduit, Effluent Pumping Station and Allied Work) (Lot-03)

Client Reference No. 3976/11/MSS/SWL/Lot-03/01/415 Dated: 04-10-2025
SOM Lab Ref: CED/SOM/1905 (Page – 2/2) Dated: 08-10-2025

Sample # 5* **Graph**



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

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

Client Reference: HRLE/SKG/2025/Hunza/16-2.01/22-7.62/28-2.23/238 **SOM Lab Ref:** 1907 (P-1/1)

Dated: 08-10-2025 **Dated:** 08-10-2025

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

Guage Length: 200 mm **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)				
	kg/m	mm	mm	mm^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	4.787	28	27.87	616	610	284.00	400.20	461	466	650	657	35.0	200	17.5	2
2	4.800	28	27.90	616	611	292.70	405.00	475	479	657	663	40.0	200	20.0	3
3	2.989	22	22.02	387	381	177.20	243.50	458	466	629	640	35.0	200	17.5	2
4	3.005	22	22.08	387	383	179.00	244.00	463	468	630	638	40.0	200	20.0	3
5	1.560	16	15.91	201	199	96.50	129.70	480	486	645	653	35.0	200	17.5	2
6	1.542	16	15.81	201	196	88.00	126.50	438	449	629	645	42.5	200	21.3	3
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Witnessed By: Muhammad Akram (Site Inspector,101 Tower), M.Irfan (QC Engr, HRL)

BEND TEST:

28mm	Sample bend through 180 degrees Satisfactorily without any crack
22mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	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. Farrukh Alvi **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

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

Client Reference: HRLE/SKG/2025/Hunza/25-14.790/237 **SOM Lab Ref:** 1908 (P-1/1)

Dated: 08-10-2025 **Dated:** 08-10-2025

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

Guage Length: 200 mm **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)				
	kg/m	mm	mm	mm^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.839	25	24.95	491	489	232.00	319.70	473	475	651	654	32.5	200	16.3	
2	3.820	25	24.89	491	487	230.00	318.00	468	473	648	654	35.0	200	17.5	
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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

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

PM Sec I/C PD Haier Lahore.(Injection Molding Project at Haier Factory 19.5KM Raiwind Rd Lahore)

Client Reference: Project/BMC/IM/25-10/03 **SOM Lab Ref:** 1912 (P-1/1)

Dated: 07-10-2025 **Dated:** 08-10-2025

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

Guage Length: 200 mm **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)				
	kg/m	mm	mm	mm^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.432	20	19.87	314	310	151.00	207.50	481	488	661	670	32.5	200	16.3	
2	2.427	20	19.84	314	309	149.20	205.50	475	483	654	665	27.5	200	13.8	
3	1.543	16	15.82	201	197	100.20	138.20	499	510	688	704	32.5	200	16.3	
4	1.532	16	15.77	201	195	99.20	137.20	494	509	683	703	32.5	200	16.3	
5	0.917	12	12.19	113	117	58.00	78.20	513	497	692	670	35.0	200	17.5	
6	0.920	12	12.22	113	117	57.50	78.50	509	491	695	670	37.5	200	18.8	
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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

Adnan Jamil (Civil Engineer) **Test Performed By:** **Dr. /Engr.** Nauman Khurram

National Management Foundation Lhr.(Const. of Yusaf Shirazi Complex at Lums Campus)

Client Reference: NMF/GM/C-39/896 **Dated:** 08-10-2025

SOM Lab Ref: CED/SOM/1906(Page-1/1) **Dated:** 08-10-2025

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	0.992	12	12.67	113	126	63.70	85.00	563	506	752	675	32.5	200	16.3	
2	0.997	12	12.72	113	127	65.50	86.00	579	516	760	678	32.5	200	16.3	
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BEND TEST:

12mm	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

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

Area Engineer Attock Petroleum Ltd.(APL Retail Outlet Lake City Lahore)

Client Reference: APL/Engg/UETLab/10/08-01 **SOM Lab Ref:** 1914 (Page-1/1)

Dated: 08-10-2025 **Dated:** 08-10-2025

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	1.489	6	0.747	0.44	0.438	13.99	18.73	70100	70420	93860	94290	1.40	8.0	17.5	
2	1.486	6	0.746	0.44	0.437	14.09	18.83	70620	71100	94370	95020	1.50	8.0	18.8	
3	1.051	5	0.627	0.31	0.309	10.52	13.56	74840	75090	96460	96770	1.40	8.0	17.5	
4	1.052	5	0.627	0.31	0.309	10.52	13.53	74840	75090	96240	96550	1.20	8.0	15.0	
5	0.664	4	0.498	0.20	0.195	7.41	9.50	81720	83820	104770	107450	1.10	8.0	13.8	
6	0.663	4	0.498	0.20	0.195	7.54	9.58	83180	85320	105670	108370	1.00	8.0	12.5	
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BEND TEST:

# 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 Nine 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

BSD Narowal.(Program For Revamping of BHUs Of North and Cental Punjab at Distt Narowal)

Client Reference: 239/NL **SOM Lab Ref:** 1900 (P-1/1)

Dated: 24-07-2025 **Dated:** 08-10-2025

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	1.475	6	0.743	0.44	0.433	14.80	18.76	74190	75390	94020	95540	1.50	8.0	18.8	
2	0.661	4	0.497	0.20	0.194	6.80	8.36	74980	77300	92180	95030	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

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Nauman Khurram

BSD No.22 Lhr.(Const Of Office Of Chief Engineer Special Initiative Department Lahore)

Client Reference: 213/SD-22 **SOM Lab Ref:** 1901(Page-1/1)

Dated: 02-10-2025 **Dated:** 08-10-2025

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	2.701	8	1.005	0.79	0.794	25.79	32.82	72000	71640	91640	91170	1.70	8.0	21.3	
2	1.492	6	0.747	0.44	0.438	15.82	18.93	79300	79660	94880	95320	1.10	8.0	13.8	
3	0.669	4	0.501	0.20	0.197	6.27	8.78	69130	70190	96790	98260	1.50	8.0	18.8	
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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

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Nauman Khurram

BSD No.22 Lhr.(Const Of Building Of Govt Primary School For Special Education Needs and Disablities at Raiwind)

Client Reference: 205/SDO-22 **SOM Lab Ref:** 1902(Page-1/1)

Dated: 02-10-2025 **Dated:** 08-10-2025

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	1.491	6	0.747	0.44	0.438	15.31	19.06	76750	77100	95550	95990	1.10	8.0	13.8	
2	0.724	4	0.521	0.20	0.213	6.47	8.89	71380	67030	98020	92040	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 Four 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.(Trunk Main Sewer Lines and Allied Work)(Lot-02)

Client Reference: 3976/11/MSS/SWL/Lot-02/01/416 **SOM Lab Ref:** 1903 (Page-1/1)

Dated: 04-10-2025 **Dated:** 08-10-2025

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (AF 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	0.662	4	0.498	0.20	0.195	6.52	8.38	71940	73790	92400	94770	1.10	8.0	13.8	
2	0.659	4	0.497	0.20	0.194	6.57	8.36	72510	74750	92180	95030	1.90	8.0	23.8	
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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

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

ME NESPAK,EPCM Consultant Sahiwal.(Trunk Main Sewer Lines and Allied Work)(Lot-03)

Client Reference: 3976/11/MSS/SWL/Lot-03/01/191 **SOM Lab Ref:** 1904 (Page-1/1)

Dated: 08-08-2025 **Dated:** 08-10-2025

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (AF 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	2.686	8	1.002	0.79	0.789	21.61	32.69	60330	60410	91270	91380	1.40	8.0	17.5	
2	2.700	8	1.005	0.79	0.793	21.89	32.42	61100	60870	90500	90160	1.30	8.0	16.3	
3	1.500	6	0.749	0.44	0.441	14.12	19.06	70770	70610	95550	95330	1.40	8.0	17.5	
4	1.487	6	0.746	0.44	0.437	13.30	19.24	66680	67140	96420	97080	1.30	8.0	16.3	
5	0.664	4	0.498	0.20	0.195	6.47	8.31	71380	73210	91610	93960	1.30	8.0	16.3	
6	0.664	4	0.498	0.20	0.195	6.39	8.18	70480	72290	90150	92460	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

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

ME NESPAK,EPCM Consultant Sahiwal.(Trunk Main Sewer Conduit,Effluent Pumping Station and Allied Work)(Lot-03)

Client Reference: 3976/11/MSS/SWL/Lot-03/01/415 **SOM Lab Ref:** 1905 (Page-1/2)

Dated: 04-10-2025 **Dated:** 08-10-2025

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (AF 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	2.660	8	0.998	0.79	0.782	21.67	32.72	60500	61120	91350	92290	1.40	8.0	17.5	
2	2.622	8	0.991	0.79	0.771	21.61	32.42	60330	61820	90500	92730	1.40	8.0	17.5	
3	1.512	6	0.752	0.44	0.444	13.20	20.00	66170	65570	100250	99350	1.30	8.0	16.3	
4	1.512	6	0.752	0.44	0.444	13.25	20.05	66430	65830	100500	99600	1.20	8.0	15.0	
5	1.507	6	0.751	0.44	0.443	14.48	18.81	72560	72070	94270	93630	1.40	8.0	17.5	*
6	1.500	6	0.749	0.44	0.441	14.48	19.01	72560	72390	95290	95080	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
# 6	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.K.Jamil **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Principal Architect & CEO, Design Simulation Lahore.(Const Of Allied Bank Ltd Grain Market Branch Vahari)

Client Reference: Nil **SOM Lab Ref:** 1909 (Page-1/2)

Dated: 07-10-2025 **Dated:** 08-10-2025

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	0.669	4	0.501	0.20	0.197	6.29	8.46	69360	70410	93300	94720	1.40	8.0	17.5	
2	0.670	4	0.501	0.20	0.197	6.65	8.63	73290	74410	95210	96660	1.30	8.0	16.3	
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BEND TEST:

--	No Bend test performed

Note:-

Only Two Samples Received and Tested

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

M.K.Jamil **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Principal Architect & CEO, Design Simulation Lahore.(Const Of Allied Bank Ltd Dhoke Farman Branch Rwp)

Client Reference: Nil **SOM Lab Ref:** 1909 (Page-2/2)

Dated: 07-10-2025 **Dated:** 08-10-2025

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	0.670	4	0.501	0.20	0.197	6.63	8.63	73070	74180	95210	96660	1.20	8.0	15.0	
2	0.672	4	0.501	0.20	0.197	6.80	8.82	74980	76120	97230	98720	1.30	8.0	16.3	
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BEND TEST:

--	No Bend test performed

Note:-

Only Two Samples Received and Tested

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

Engr. M Asif Javed
PM, ESAC DHA Lahore.(Grand Central Mall Project Faisalabad)

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

Client Reference: ESAC/TGC/GCMF/286
Dated: 08-10-2025

SOM Lab Ref: 1910 (Page-1/1)
Dated: 08-10-2025

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

Test Specification: ASTM-A-706
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	2.634	8	0.993	0.79	0.774	25.25	33.79	70490	71950	94340	96290	1.40	8.0	17.5	
2	2.585	8	0.984	0.79	0.760	24.62	33.97	68730	71440	94820	98570	1.40	8.0	17.5	
3	0.705	4	0.513	0.20	0.207	6.60	8.97	72730	70270	98920	95580	1.30	8.0	16.3	
4	0.656	4	0.496	0.20	0.193	7.10	9.60	78350	81190	105890	109730	1.40	8.0	17.5	
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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.** Nauman Khurram

HSD Mailsi.(Const Of Additional Carriageway From Pull 114/10R PIR Murad Morr)

Client Reference: 145/SDM **SOM Lab Ref:** 1911 (Page-1/1)

Dated: 09-09-2025 **Dated:** 08-10-2025

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	0.665	4	0.498	0.20	0.195	6.47	8.31	71380	73210	91610	93960	1.30	8.0	16.3	
2	0.662	4	0.498	0.20	0.195	6.22	8.28	68570	70330	91280	93620	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

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

BSD No.12 Lhr.(Strengthening of Punjab Tianjin University of Technology Lahore)

Client Reference: 516 **SOM Lab Ref:** 1913(Page-1/3)

Dated: 07-10-2025 **Dated:** 08-10-2025

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	2.612	8	0.989	0.79	0.768	24.72	34.27	69010	70990	95680	98420	1.50	8.0	18.8	
2	2.619	8	0.990	0.79	0.770	24.67	34.20	68870	70660	95480	97960	1.60	8.0	20.0	
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BEND TEST:

--	No Bend test performed

Note:-

Only Two 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

BSD No.12 Lhr.(Strengthening of Punjab Tianjin University of Technology Lahore)

Client Reference: 517 **SOM Lab Ref:** 1913(Page-2/3)

Dated: 07-10-2025 **Dated:** 08-10-2025

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	1.473	6	0.743	0.44	0.433	13.99	19.72	70100	71240	98870	100470	1.30	8.0	16.3	
2	1.475	6	0.743	0.44	0.433	14.02	19.80	70260	71390	99230	100830	1.30	8.0	16.3	
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BEND TEST:

--	No Bend test performed

Note:-

Only Two 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

BSD No.12 Lhr.(Strengthening of Punjab Tianjin University of Technology Lahore)

Client Reference: 518 **SOM Lab Ref:** 1913(Page-3/3)

Dated: 07-10-2025 **Dated:** 08-10-2025

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	0.659	4	0.497	0.20	0.194	6.19	8.61	68230	70340	94990	97920	1.20	8.0	15.0	
2	0.655	4	0.494	0.20	0.192	6.17	8.66	68010	70840	95550	99530	1.30	8.0	16.3	
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BEND TEST:

--	No Bend test performed

Note:-

Only Two Samples Received and Tested

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