Addl: Executive Engineer **Test Performed By:** **Dr. /Engr.** Wasim Abbas

T/L `s` GC Div GSC MEPCO Multan.(132-KV Double Line For DHA Grid Station Multan)

Client Reference: 80-83 **Dated:** 23-01-2023

SOM Lab Ref: CED/SOM/1752(Page-1/1) **Dated:** 14-02-2023

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

Sample Type: Deformed Bar (AF Steel) **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	3.926	25	25.23	491	500	253.70	337.00	517	508	687	674	35.0	200	17.5	
2	3.911	25	25.19	491	498	242.50	326.70	494	487	666	656	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Syed Mohsin Ali RE **Test Performed By:** **Dr. /Engr.** Yousaf

QA/QC Deptt.Bahria Town Lhr.(Janazgah Rafi Block Bahria Town Multan)

Client Reference: QA/QC/Steel-3018 **SOM Lab Ref:** 1744 (Page-1/1)

Dated: 10-02-2023 **Dated:** 14-02-2023

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	14.85	19.03	74450	75830	95400	97160	1.10	8.0	13.8	
2	1.495	6	0.748	0.44	0.439	13.97	18.52	70000	70160	92840	93050	1.40	8.0	17.5	
3	0.671	4	0.501	0.20	0.197	6.01	8.23	66320	67330	90720	92100	1.50	8.0	18.8	
4	0.666	4	0.500	0.20	0.196	6.08	8.15	67000	68370	89930	91760	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Assistant Project Director **Test Performed By:** **Dr. /Engr.** Wasim Abbas

PMU-SBP Lhr.(Up-Gradation of Sports Facilities,at One up Gradation of Nishter park Sports Complex)

Client Reference: ADP/PMU/SBP/LHR/23/490 **SOM Lab Ref:** 1745 (Page-1/1)

Dated: 02-02-2023 **Dated:** 14-02-2023

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	1.488	6	0.746	0.44	0.437	14.55	20.13	72910	73420	100910	101610	1.20	8.0	15.0	
2	1.489	6	0.747	0.44	0.438	14.48	19.85	72560	72890	99480	99940	1.40	8.0	17.5	
3	0.645	4	0.492	0.20	0.190	5.86	8.18	64640	68040	90150	94900	1.50	8.0	18.8	
4	0.664	4	0.498	0.20	0.195	6.14	8.38	67670	69410	92400	94770	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

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

Sr.PM Izhar Const. Pvt.Ltd.(Const. Of Mixed-Used Commercial DB-32 at DHA Lahore)

Client Reference: Nil **SOM Lab Ref:** 1747 (Page-1/1)

Dated: 13-02-2023 **Dated:** 14-02-2023

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	3.221	9	1.098	1.00	0.947	28.75	40.88	63400	66950	90150	95200	1.60	8.0	20.0	S.J
2	3.266	9	1.106	1.00	0.960	29.05	40.93	64080	66750	90270	94030	1.70	8.0	21.3	S.J
3	3.381	9	1.125	1.00	0.994	31.35	48.06	69130	69550	106000	106640	1.60	8.0	20.0	FF
4	3.353	9	1.120	1.00	0.985	31.45	42.76	69360	70410	94310	95750	1.50	8.0	18.8	FF
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 9	Sample bend through 180 degrees Satisfactorily without any crack
# 9	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

Muddasir Ali
Lahore.

Test Performed By: **Dr. /Engr.** Wasim Abbas

Client Reference: Nil
Dated: 14-02-2023

SOM Lab Ref: 1748 (Page-1/1)
Dated: 14-02-2023

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	0.668	4	0.500	0.20	0.196	7.16	8.61	78910	80520	94990	96930	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Talha Javaid **Test Performed By:** **Dr. /Engr.** Wasim Abbas

Planning & Coordination Engineer,Construct.(Dr.Khalid Waheed`s Retina Eye Clinic)

SOM Lab

Client Reference: LT/PCE/PT/230214 **Ref:** 1749 (Page-1/1)

Dated: 14-02-2023 **Dated:** 14-02-2023

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	2.598	8	0.986	0.79	0.763	26.32	34.05	73480	76080	95050	98410	1.80	8.0	22.5	
2	2.618	8	0.990	0.79	0.769	26.61	33.64	74280	76310	93910	96480	1.50	8.0	18.8	
3	1.469	6	0.742	0.44	0.432	16.06	19.54	80480	81970	97950	99760	1.30	8.0	16.3	
4	1.471	6	0.742	0.44	0.432	16.02	19.52	80320	81810	97850	99660	1.20	8.0	15.0	
5	0.662	4	0.498	0.20	0.195	6.88	8.69	75880	77820	95770	98230	1.00	8.0	12.5	
6	0.666	4	0.500	0.20	0.196	7.10	8.94	78350	79950	98580	100600	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Brig.Saeed Ahmad Malik,SI(M)® **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

RE Nespak Lahore.(Lahore Roads Rehablitation Project Ph-II)(MCL Projects)

Client Reference: 4084/103/BSAM/104/866 **SOM Lab Ref:** 1750 (Page-1/1)

Dated: 17-01-2023 **Dated:** 14-02-2023

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	0.667	4	0.500	0.20	0.196	7.41	9.48	81720	83390	104540	106670	1.10	8.0	13.8	
2	0.674	4	0.502	0.20	0.198	7.44	9.14	82060	82890	100830	101850	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

G3 Engineering Consultants,
Lahore.(GC Women University Sialkot)

Test Performed By: **Dr. /Engr.** Wasim Abbas

Client Reference: RE/GCWU/30
Dated: 08-02-2023

SOM Lab Ref: 1751 (P-1/1)
Dated: 14-02-2023

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	2.665	8	0.998	0.79	0.783	24.69	32.72	68930	69540	91350	92170	1.50	8.0	18.8	
2	2.652	8	0.996	0.79	0.779	24.54	32.54	68500	69470	90840	92120	1.50	8.0	18.8	
3	1.535	6	0.758	0.44	0.451	13.40	18.88	67190	65550	94630	92320	1.50	8.0	18.8	
4	1.530	6	0.757	0.44	0.450	13.32	18.76	66780	65300	94020	91930	1.40	8.0	17.5	
5	0.675	4	0.502	0.20	0.198	6.09	8.53	67110	67790	94090	95040	1.30	8.0	16.3	
6	0.675	4	0.502	0.20	0.198	6.12	8.56	67450	68130	94420	95380	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Executive Engr, Highway Div. **Test Performed By:** **Dr. /Engr.** Wasim Abbas
Faisalabad.(Const of Dual Carriageay Road From M3 Motorway Sammundari)

Client Reference: 18043/CB **SOM Lab Ref:** 1753 (P-1/1)
Dated: 24-12-2022 **Dated:** 14-02-2023

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	2.670	8	1.000	0.79	0.785	27.85	35.90	77750	78240	100230	100870	1.30	8.0	16.3	
2	2.651	8	0.996	0.79	0.779	24.79	32.11	69210	70190	89640	90910	1.50	8.0	18.8	
3	1.504	6	0.750	0.44	0.442	14.53	19.83	72810	72480	99380	98930	1.50	8.0	18.8	
4	1.505	6	0.750	0.44	0.442	14.44	19.75	72400	72080	98970	98520	1.50	8.0	18.8	
5	1.046	5	0.625	0.31	0.307	10.42	13.73	74120	74840	97690	98640	1.20	8.0	15.0	
6	1.052	5	0.627	0.31	0.309	10.35	13.68	73610	73850	97330	97640	1.20	8.0	15.0	
7	0.668	4	0.500	0.20	0.196	5.20	7.41	57330	58500	81720	83390	1.10	8.0	13.8	
8	0.670	4	0.501	0.20	0.197	5.22	7.51	57560	58430	82850	84110	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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