

DGM Civil (Line-IV)

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

MLCF Iskandarabad, Dist. Mianwali.(Civil Works of 7000 TPD Line-IV,MLCFL)

Client Reference: MLCFL/LINE-IV/CIVIL/2021/07

Dated: 09-12-2021

SOM Lab Ref: CED/SOM/5479(Page-1a/3)

Dated: 16-12-2021

Test: Tension Test &amp; Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Ittefaq Iron)

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.780	25	24.77	491	482	268.00	348.00	546	557	709	722	32.5	200	16.3	H# 1301
2	3.813	25	24.87	491	486	254.00	338.70	517	523	690	698	30.0	200	15.0	H# 1301
3	3.766	25	24.71	491	480	269.70	347.70	549	563	708	725	30.0	200	15.0	H# 3947
4	3.911	25	25.19	491	498	284.70	359.00	580	572	731	721	25.0	200	12.5	H# 3947
5	3.733	25	24.61	491	476	276.00	356.00	562	581	725	749	30.0	200	15.0	H# 3956
6	3.741	25	24.63	491	477	276.00	352.50	562	580	718	740	25.0	200	12.5	H# 3956
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**BEND TEST:**

25mm Sample bend through 180 degrees Satisfactorily without any crack

25mm Sample bend through 180 degrees Satisfactorily without any crack

25mm 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](http://www.uet-civil.edu.pk)

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Dr. /Engr.

S. Asad Ali Gillani

MLCF Iskandarabad, Dist. Mianwali.(Civil Works of 7000 TPD Line-IV,MLCFL)

Client Reference: MLCFL/LINE-IV/CIVIL/2021/07

Dated: 09-12-2021

SOM Lab Ref: CED/SOM/5479(Page-1b/3)

Dated: 16-12-2021

Test: Tension Test &amp; Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Ittefaq Iron)

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.835	25	24.95	491	489	332.70	396.00	678	681	807	810	25.0	200	12.5	H# 664
2	3.692	25	24.47	491	470	252.50	335.70	514	537	684	714	27.5	200	13.8	H# 664
3	3.720	25	24.57	491	474	290.20	363.20	591	613	740	767	30.0	200	15.0	H# 1320
4	3.809	25	24.86	491	485	252.70	337.00	515	521	687	695	25.0	200	12.5	H# 1320
5	3.724	25	24.58	491	474	252.70	337.50	515	533	688	712	32.5	200	16.3	H# 645
6	3.740	25	24.63	491	476	276.50	357.20	563	581	728	750	30.0	200	15.0	H# 645
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
25mm	Sample bend through 180 degrees Satisfactorily without any crack	
25mm	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

DGM Civil (Line-IV)

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MLCF Iskandarabad, Dist. Mianwali.(Civil Works of 7000 TPD Line-IV,MLCFL)

Client Reference: MLCFL/LINE-IV/CIVIL/2021/07

Dated: 09-12-2021

SOM Lab Ref: CED/SOM/5479(Page-2/3)

Dated: 16-12-2021

Test: Tension Test &amp; Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Mughal 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	4.000	25	25.48	491	510	284.50	354.20	580	558	722	695	30.0	200	15.0	H#E6616
2	4.012	25	25.51	491	511	279.50	350.00	569	547	713	685	32.5	200	16.3	H#E6616
3	3.933	25	25.26	491	501	281.00	352.00	572	561	717	703	35.0	200	17.5	H#E6628
4	3.958	25	25.34	491	504	271.50	348.00	553	539	709	691	27.5	200	13.8	H#E6628
5	3.968	25	25.37	491	505	282.50	353.70	576	559	721	700	30.0	200	15.0	H#D5015
6	4.000	25	25.47	491	510	270.20	347.50	550	531	708	682	37.5	200	18.8	H#D5015
7	3.898	25	25.15	491	497	272.20	352.50	555	549	718	710	32.5	200	16.3	H#D5006
8	3.853	25	25.00	491	491	271.70	345.70	554	554	704	705	35.0	200	17.5	H#D5006
9	3.878	25	25.08	491	494	248.20	321.00	506	503	654	650	37.5	200	18.8	H#A8232
10	3.832	25	24.93	491	488	259.20	330.50	528	531	673	677	32.5	200	16.3	H#A8232

**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Fifteen Samples Received and Tested
25mm	Sample bend through 180 degrees Satisfactorily without any crack	
25mm	Sample bend through 180 degrees Satisfactorily without any crack	
25mm	Sample bend through 180 degrees Satisfactorily without any crack	
25mm	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

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S. Asad Ali Gillani

MLCF Iskandarabad, Dist. Mianwali.(Civil Works of 7000 TPD Line-IV,MLCFL)

Client Reference: MLCFL/LINE-IV/CIVIL/2021/07

Dated: 09-12-2021

SOM Lab Ref: CED/SOM/5479(Page-3/3)

Dated: 16-12-2021

Test: Tension Test &amp; Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Mughal 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.508	20	20.15	314	319	176.20	214.70	561	553	683	674	35.0	200	17.5	H#A 8201
2	2.522	20	20.22	314	321	176.50	214.90	562	550	684	669	32.5	200	16.3	H#A 8201
3	2.570	20	20.42	314	327	179.00	218.20	570	547	695	667	35.0	200	17.5	H#A 9125
4	2.558	20	20.37	314	326	177.20	217.70	564	544	693	669	32.5	200	16.3	H#A 9125
5	2.454	20	19.95	314	313	180.20	217.20	574	577	691	695	30.0	200	15.0	H#B 553
6	2.451	20	19.94	314	312	180.00	218.00	573	577	694	699	32.5	200	16.3	H#B 553
7	2.654	20	20.75	314	338	185.00	230.20	589	548	733	681	30.0	200	15.0	H#C 2484
8	2.729	20	21.04	314	348	192.20	237.00	612	553	754	682	32.5	200	16.3	H#C 2484
9	2.468	20	20.01	314	314	182.20	219.00	580	580	697	697	32.5	200	16.3	H#E 6585
10	2.454	20	19.95	314	313	181.50	218.00	578	581	694	698	32.5	200	16.3	H#E 6585

**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Fifteen Samples Received and Tested
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	Sample bend through 180 degrees Satisfactorily without any crack	
20mm	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Colonel Azim Ilyas ®

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Executive Director, Lahore Diocesan Board Of Education. (Deny's High School, Muree Ph-III)

Client Reference: COORD/124/91/BLDG

SOM Lab

Ref:

5474(Page-1/2)

Dated: 15-12-2021

Dated:

16-12-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.663	8	0.998	0.79	0.783	25.66	35.75	71630	72270	99800	100700	1.20	8.0	15.0	
2	2.669	8	0.999	0.79	0.784	25.96	36.00	72480	73040	100510	101280	1.40	8.0	17.5	
3	0.662	4	0.498	0.20	0.195	7.94	9.53	87570	89810	105100	107800	0.90	8.0	11.3	
4	0.661	4	0.497	0.20	0.194	7.85	9.40	86560	89230	103640	106850	0.70	8.0	8.8	
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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](http://www.uet-civil.edu.pk)

Colonel Azim Ilyas ®

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Executive Director, Lahore Diocesan Board Of Education. (Deny's High School, Muree Ph-III)

Client Reference: COORD/124/92/BLDG

SOM Lab

Ref:

5474(Page-2/2)

Dated: 16-12-2021

Dated:

16-12-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.687	8	1.003	0.79	0.790	27.85	37.56	77750	77750	104870	104870	1.20	8.0	15.0	
2	2.693	8	1.004	0.79	0.791	27.73	37.46	77410	77310	104580	104450	1.20	8.0	15.0	
3	0.670	4	0.501	0.20	0.197	6.98	8.99	77000	78170	99150	100660	1.00	8.0	12.5	
4	0.664	4	0.498	0.20	0.195	8.05	9.50	88800	91080	104770	107450	0.90	8.0	11.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Sub Divisional Officer,

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Building Sub Division No.1 R Y Khan.(Establishment of Govt.Associate College For Boys)

Client Reference: 1924/RYK

SOM Lab

Ref:

5475(Page-1/1)

Dated: 09-11-2021

Dated:

16-12-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.625	8	0.991	0.79	0.771	22.17	33.94	61900	63420	94770	97100	1.30	8.0	16.3	
2	1.535	6	0.758	0.44	0.451	10.88	16.18	54520	53190	81090	79110	0.80	8.0	10.0	
3	0.659	4	0.497	0.20	0.194	6.14	6.49	67670	69770	71610	73820	0.10	8.0	1.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend Test Failed	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Arif Masood  
Superintending Engr. For ACE 4 Corps, Lahore.

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

Client Reference: 286-S.School/10/E-2  
Dated: 15-12-2021  
Test: Tension Test & Bend Test  
Gauge Length: 8 inch

SOM Lab  
Ref: 5476(Page-1/1)  
Dated: 16-12-2021  
ASTM-A-615  
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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.633	8	0.993	0.79	0.774	26.57	33.66	74190	75730	93970	95910	1.40	8.0	17.5	
2	2.626	8	0.991	0.79	0.772	26.40	33.49	73710	75430	93490	95670	1.40	8.0	17.5	
3	1.492	6	0.747	0.44	0.438	15.95	19.27	79970	80330	96570	97010	1.40	8.0	17.5	
4	1.503	6	0.750	0.44	0.442	15.95	19.39	79970	79600	97180	96740	1.20	8.0	15.0	
5	1.084	5	0.637	0.31	0.319	10.65	12.64	75790	73650	89930	87390	1.30	8.0	16.3	
6	1.087	5	0.637	0.31	0.319	10.55	12.61	75060	72940	89710	87180	1.40	8.0	17.5	
7	0.668	4	0.500	0.20	0.196	7.10	8.87	78350	79950	97800	99790	1.10	8.0	13.8	
8	0.665	4	0.498	0.20	0.195	7.08	8.87	78130	80130	97800	100300	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Twelve Samples Received and Tested
# 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: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)



Engr. Javed Asad

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

CRE Jalapur Irrigation Project Consultants.(Hydraulic Structure Of Jalalpur Canal)

Client Reference: JIP/TECH/CRE/P2 16

SOM Lab

Ref:

5477(Page-1/1)

Dated: 16-12-2021

Dated:

16-12-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Nomee 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.715	8	1.008	0.79	0.798	23.06	33.74	64370	63730	94200	93250	1.30	8.0	16.3	
2	2.716	8	1.008	0.79	0.798	23.36	34.30	65230	64570	95760	94800	1.30	8.0	16.3	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Wasiq Akram

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

P&CE Ittefaq Building Solution.(Project: Master Textile Mills Ltd.(Extension of Spinning Unit M-7))

**Client Reference:** IBS/M-7/Steel/07-12-21

**SOM Lab**

**Ref:** 5478(Page-1/6)

**Dated:** 14-12-2021

**Dated:** 16-12-2021

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.670	4	0.501	0.20	0.197	6.17	8.43	68010	69050	92960	94380	1.20	8.0	15.0	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Wasiq Akram

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

P&CE Ittfaq Building Solution.(Project: Master Textile Mills Ltd.(Extension Of spinning Unit M-7))

Client Reference: IBS/M-7/Steel/08-12-21

SOM Lab

Ref: 5478(Page-2/6)

Dated: 14-12-2021

Dated: 16-12-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.674	4	0.502	0.20	0.198	6.47	8.61	71380	72100	94990	95950	1.10	8.0	13.8	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Wasiq Akram

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

P&CE Ittfaq Building Solution.(Project: Master Textile Mills Ltd.(Extension Of spinning Unit M-7))

Client Reference: IBS/M-7/Steel/07-12-21

SOM Lab

Ref: 5478(Page-3/6)

Dated: 14-12-2021

Dated: 16-12-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.496	6	0.748	0.44	0.440	13.25	19.57	66430	66430	98100	98100	1.30	8.0	16.3	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Wasiq Akram

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

P&CE Ittfaq Building Solution.(Project: Master Textile Mills Ltd.(Extension Of spinning Unit M-7))

Client Reference: IBS/M-7/Steel/08-12-21

SOM Lab

Ref: 5478(Page-4/6)

Dated: 14-12-2021

Dated: 16-12-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.500	6	0.749	0.44	0.441	13.25	19.90	66430	66280	99740	99510	1.20	8.0	15.0	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Wasiq Akram

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

P&CE Ittfaq Building Solution.(Project: Master Textile Mills Ltd.(Extension Of spinning Unit M-7))

Client Reference: IBS/M-7/Steel/07-12-21

SOM Lab

Ref: 5478(Page-5/6)

Dated: 14-12-2021

Dated: 16-12-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.577	8	0.982	0.79	0.757	24.18	33.15	67500	70450	92550	96580	1.50	8.0	18.8	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Wasiq Akram

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

P&CE Ittfaq Building Solution.(Project: Master Textile Mills Ltd.(Extension Of spinning Unit M-7))

Client Reference: IBS/M-7/Steel/24-11-21

SOM Lab

Ref: 5478(Page-6/6)

Dated: 14-12-2021

Dated: 16-12-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.669	8	0.999	0.79	0.784	25.94	34.32	72430	72980	95820	96550	1.40	8.0	17.5	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only One Sample Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

HRM Construction,  
166-Y Commercial,DHA, Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 5480(Page-1/1)

Dated: 16-12-2021

Dated: 16-12-2021

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.628	8	0.991	0.79	0.772	22.68	35.60	63320	64800	99380	101690	1.60	8.0	20.0	
2	2.648	8	0.995	0.79	0.778	22.75	35.68	63520	64500	99600	101140	1.50	8.0	18.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)



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Test Performed By:

Dr. /Engr.

Wasim Abbas

PM Zaheer Associates, Garden City Muridke. (Const. of Jamia Mosque `A` Block)

Client Reference: Z.A/A.R/02-21

SOM Lab

Ref:

5481(Page-1/1)

Dated: 16-12-2021

Dated:

16-12-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mehboob 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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.496	6	0.748	0.44	0.440	15.77	21.20	79050	79050	106280	106280	1.00	8.0	12.5	
2	1.548	6	0.761	0.44	0.455	16.77	22.40	84050	81280	112260	108560	1.00	8.0	12.5	
3	0.645	4	0.492	0.20	0.190	6.27	8.12	69130	72770	89590	94310	1.20	8.0	15.0	
4	0.630	4	0.485	0.20	0.185	6.34	8.28	69920	75590	91280	98680	1.00	8.0	12.5	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)