

Mr. Liu Zhe, SCM

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

CMEC China.(Extension of Water Resources Project for Faisalabad City, Phase-II)

Client Reference: CMEC/LAB/25/0052

Dated: 23-10-2025

SOM Lab Ref: CED/SOM/1974(Page-2/2)

Dated: 22-10-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar (FF 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	3.891	25	25.13	510	496	254.00	344.20	498	513	675	694	35.0	200	17.5	
2	4.013	25	25.51	510	511	261.00	352.20	512	511	691	689	35.0	200	17.5	
3	2.992	22	22.03	387	381	198.00	274.00	512	520	708	719	35.0	200	17.5	
4	3.008	22	22.09	387	383	187.00	266.00	483	488	687	695	32.5	200	16.3	
5	2.239	19	19.06	284	285	148.00	197.00	522	519	695	691	32.5	200	16.3	
6	2.183	19	18.82	284	278	142.50	197.00	503	513	695	709	32.5	200	16.3	
7	1.531	16	15.76	199	195	101.00	135.00	508	518	678	693	30.0	200	15.0	
8	1.515	16	15.67	199	193	100.20	133.20	504	520	669	691	32.5	200	16.3	
9	0.967	13	12.52	129	123	62.00	83.70	481	504	649	680	30.0	200	15.0	
10	0.977	13	12.59	129	124	61.00	82.70	473	491	641	665	32.5	200	16.3	

**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Fifteen Samples Received and Tested
22mm	Sample bend through 180 degrees Satisfactorily without any crack	
19mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
13mm	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)

Mr. Liu Zhe, SCM

Test Performed By:

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CMEC China.(Extension of Water Resources Project for Faisalabad City, Phase-II)

Client Reference: CMEC/LAB/25/0052

Dated: 23-10-2025

SOM Lab Ref: CED/SOM/1974(Page-1/2)

Dated: 22-10-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Aziz 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	3.871	25	25.05	510	493	230.50	330.00	452	468	647	670	32.5	200	16.3	
2	3.842	25	24.96	510	489	230.50	331.00	452	472	649	677	35.0	200	17.5	
3	2.988	22	22.02	387	381	235.00	300.00	607	618	775	789	32.5	200	16.3	
4	2.953	22	21.88	387	376	226.00	293.50	584	601	758	781	35.0	200	17.5	
5	2.233	19	19.03	284	284	140.70	191.00	496	495	674	672	32.5	200	16.3	
6	2.201	19	18.89	284	280	136.20	190.00	480	486	670	678	30.0	200	15.0	
7	1.604	16	16.13	199	204	114.50	148.50	575	561	746	727	32.5	200	16.3	
8	1.554	16	15.88	199	198	93.70	148.70	471	474	747	752	35.0	200	17.5	
9	1.042	13	13.00	129	133	61.20	95.00	474	462	736	716	35.0	200	17.5	
10	1.044	13	13.01	129	133	61.00	94.70	473	459	734	713	35.0	200	17.5	

**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<p><b>Note:-</b></p> <p>Only Fifteen Samples Received and Tested</p>
22mm	Sample bend through 180 degrees Satisfactorily without any crack	
19mm	Sample bend through 180 degrees Satisfactorily without any crack	
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
13mm	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)

Abdul Baseet  
ME Banu Mukhtar Contracting(Pvt.) Ltd.(Burj-1 By AJWA Builders)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: DOC-BMC/AJWA/164

SOM Lab

Ref: 1971 (Page-1/1)

Dated: 21-10-2025

Dated: 22-10-2025

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.596	8	0.986	0.79	0.763	23.52	33.84	65650	67980	94480	97820	1.30	8.0	16.3	
2	2.675	8	1.000	0.79	0.786	24.69	34.68	68930	69280	96820	97310	1.50	8.0	18.8	
3	2.629	8	0.992	0.79	0.773	24.31	34.20	67870	69370	95480	97580	1.60	8.0	20.0	
4	1.501	6	0.749	0.44	0.441	14.90	20.18	74700	74530	101170	100940	1.50	8.0	18.8	
5	1.467	6	0.741	0.44	0.431	14.22	19.16	71280	72770	96060	98070	1.30	8.0	16.3	
6	1.511	6	0.752	0.44	0.444	15.26	20.69	76490	75800	103720	102790	1.10	8.0	13.8	
7	0.693	4	0.510	0.20	0.204	6.54	8.77	72170	70750	96670	94780	1.30	8.0	16.3	
8	0.670	4	0.501	0.20	0.197	6.49	8.84	71610	72700	97460	98940	1.40	8.0	17.5	
9	0.662	4	0.498	0.20	0.195	6.47	8.69	71380	73210	95770	98230	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	
# 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)

Ishtiaq Ahmad

Dy Manager Projects Diamond Tyre Lahore.

Test Performed By:

Dr. /Engr. Wasim Abbas

Client Reference: Nil

Dated: Nil

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 1972 (P-1/1)

Dated: 22-10-2025

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.598	8	0.986	0.79	0.763	24.64	34.96	68790	71220	97610	101070	1.30	8.0	16.3	
2	1.462	6	0.740	0.44	0.430	13.86	19.59	69490	71110	98210	100490	1.10	8.0	13.8	
3	0.658	4	0.496	0.20	0.193	6.03	8.69	66550	68960	95770	99250	1.20	8.0	15.0	
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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 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)

M.Mubasher  
 Manager QA/QC Mughal Iron & Steel Industries Limited Lahore.

**Test Performed By:** Dr. /Engr. Qasim Shaukat

**Client Reference:** Nil

**SOM Lab**

**Ref:** 1973 (Page-1/1)

**Dated:** 22-10-2025

**Dated:** 22-10-2025

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.661	4	0.497	0.20	0.194	6.54	7.87	72170	74400	86780	89470	1.10	8.0	13.8	
2	0.657	4	0.496	0.20	0.193	6.49	7.90	71610	74200	87120	90280	1.00	8.0	12.5	
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**Witnessed By:** M.Mubasher (Manager QA/QC)

**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Two 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)