

Civil Engineer,  
Bakhtawar Ameen Memorial Trist Hospital, Multan

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

**Client Reference:** nil

**SOM Lab**

**Ref:** 2825(Page-1/1)

**Dated:** Nil

**Dated:** 12-08-2020

**Test:** Tension Test & Bend Test

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

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar

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	2.645	8	0.995	0.79	0.777	27.98	34.32	78120	79430	95820	97420	1.10	8.0	13.8	
2	2.644	8	0.995	0.79	0.777	27.88	34.15	77830	79140	95340	96930	1.20	8.0	15.0	
3	1.474	6	0.743	0.44	0.433	17.04	20.44	85430	86810	102450	104100	1.00	8.0	12.5	
4	1.476	6	0.743	0.44	0.434	17.43	20.66	87370	88580	103570	105000	1.00	8.0	12.5	
5	0.674	4	0.502	0.20	0.198	7.41	9.12	81720	82550	100610	101620	1.00	8.0	12.5	
6	0.674	4	0.502	0.20	0.198	7.29	9.02	80370	81190	99480	100490	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 Nine 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)

Abdullah Muhammad Khadim  
Resident Engineer, DAR Engineering

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

**Client Reference:** DB-78/DAR/RE/ME/2020/0226

**SOM Lab**

**Ref:** 2826(Page-1/2)

**Dated:** 10-08-2020

**Dated:** 12-08-2020

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.482	6	0.745	0.44	0.436	12.95	19.27	64890	65490	96570	97460	1.50	8.0	18.8	JY-193
2	1.475	6	0.743	0.44	0.433	12.76	19.16	63970	65010	96060	97610	1.40	8.0	17.5	JY-193
3	0.656	4	0.496	0.20	0.193	6.03	8.33	66550	68960	91840	95170	1.10	8.0	13.8	JY-107
4	0.656	4	0.496	0.20	0.193	5.91	8.26	65200	67560	91050	94350	1.20	8.0	15.0	JY-107
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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)

Abdullah Muhammad Khadim  
Resident Engineer, DAR Engineering

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: DB-78/DAR/RE/ME/2020/0224

SOM Lab

Ref: 2826(Page-2/2)

Dated: 29-07-2020

Dated: 12-08-2020

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.047	5	0.626	0.31	0.308	9.89	13.37	70350	70810	95150	95770	1.20	8.0	15.0	P-900
2	1.047	5	0.626	0.31	0.308	9.91	13.61	70490	70950	96820	97450	1.20	8.0	15.0	P-900
3	0.664	4	0.498	0.20	0.195	6.32	9.48	69700	71480	104540	107220	1.20	8.0	15.0	P-197
4	0.666	4	0.500	0.20	0.196	6.01	8.56	66320	67680	94420	96350	1.20	8.0	15.0	P-197
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**BEND TEST:**

# 5	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)