

Muhammad Imtiaz

**Test Performed By:**

**Dr. /Engr.**

S. Asad Ali Gillani

Project Manager, A.S. Enterprises, Lahore (Project US Dynamo Mill Sundar Industrial Estate Lahore )

**Client Reference:** USD/ASE/17

**Dated:** 06-01-2020

**SOM Lab Ref:** CED/SOM/2008(Page-1/1)

**Dated:** 06-01-2020

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** M S 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	0.869	12	11.89	113	111	61.00	80.20	539	550	709	723	32.5	200	16.3	
2	0.883	12	11.97	113	113	59.00	77.50	522	525	685	689	32.5	200	16.3	
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**BEND TEST:**

12mm	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)

Assistant Engineer Bridges,  
Pakistan Railways Sukkur

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

Client Reference: 56-W/384/2019/60

Dated: 04-01-2020

Test: Tension Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2006(Page-1/1)

Dated: 06-01-2020

ASTM-A-615

Deformed Bar(Amreli 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	1.508	6	0.751	0.44	0.443	16.11	21.00	80730	80190	105260	104540	1.40	8.0	17.5	
2	1.505	6	0.750	0.44	0.442	15.95	21.02	79970	79600	105360	104880	1.40	8.0	17.5	
3	1.069	5	0.632	0.31	0.314	12.56	15.01	89350	88210	106750	105390	1.10	8.0	13.8	
4	1.069	5	0.632	0.31	0.314	12.92	15.36	91890	90720	109290	107900	1.10	8.0	13.8	
5	0.600	4	0.473	0.20	0.176	6.29	8.28	69360	78820	91280	103720	1.30	8.0	16.3	
6	0.592	4	0.471	0.20	0.174	6.24	8.23	68800	79080	90720	104270	1.10	8.0	13.8	
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**BEND TEST:**

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