

Muhammad Aslam (Retd)

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Resident Engineer, Penta Square Project, Al -Imam Enterprises (Pvt) Ltd)

Client Reference: Al-Imam/746/Ps-1/DHA/LHE/1094

Dated: 06-06-2020

SOM Lab Ref: CED/SOM/2607(Page-2/2)

Dated: 19-06-2020

Test: Tension and Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Kamran 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	2.211	20	18.95	314	282	121.50	176.70	387	431	562	627	25.0	200	12.5	
2	2.215	20	18.95	314	282	122.00	178.70	388	433	569	634	30.0	200	15.0	
3	1.582	16	16.02	201	202	105.70	145.20	526	525	722	721	25.0	200	12.5	
4	1.583	16	16.02	201	202	106.20	146.00	528	527	726	725	25.0	200	12.5	
5	0.962	12	12.49	113	122	57.70	80.20	510	472	709	655	30.0	200	15.0	
6	0.981	12	12.61	113	125	60.00	82.00	531	481	725	657	32.5	200	16.3	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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