

Muhammad Shafeeq
 Manager Operations, INGIGO Developers, Lahore

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

Client Reference: Nil
SOM Lab Ref: CED/SOM/1817 (Page-1/1)
Test: Tension Test & Bend Test
Sample Type: Bolts

Dated: 02-12-2019
Dated: 03-12-2019
Test Specification: ASTM-F-1554
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	2.011	19	18.05	284	256	122.30	167.00	431	478	589	653	25.0	200	12.5	
2	1.860	19	17.37	284	237	97.20	119.70	343	411	422	506	37.5	200	18.8	
3	1.952	19	17.79	284	249	120.00	145.50	423	483	513	586	30.0	200	15.0	
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BEND TEST:

19mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
19mm	Sample bend through 180 degrees Satisfactorily without any crack	
19mm	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

Resident Engineer/Team Leader
 Prime Engineering Consultancy, Kallurkot Bidge Project

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

Client Reference: KK-DIK-BR-PJ/2019/
SOM Lab Ref: CED/SOM/1818(Page-1/1)
Test: Tension Test & bend Test
Sample Type: Deformed Bar(Pak Steel)

Dated: 02-12-2019
Dated: 03-12-2019
Test Specification: ASTM-A 615
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	3.856	25	25.00	491	491	262.20	340.20	534	535	693	693	35.0	200	17.5	
2	1.548	16	15.84	201	197	101.70	140.00	506	516	696	711	27.5	200	13.8	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
16mm	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