

I. H. ZARRAR
for Engineering Design Bureau, Lahore

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

Client Reference: EDB/HUAWEI(PTML)/325

Dated: 04-02-2020

SOM Lab Ref: CED/SOM/2166 (Page-1/1)

Dated: 04-02-2020

Test: Tensile Test

Test Specification: ASTM-A-615

Sample Type: Deformed Bar

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	3.301	25	23.15	491	421	143.00	258.20	291	340	526	614	30.0	200	15.0	
2	3.642	25	24.31	491	464	146.20	237.00	298	316	483	511	27.5	200	13.8	
3	2.795	20	21.29	314	356	146.70	234.50	467	412	746	659	25.0	200	12.5	
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BEND TEST:

--	No Bend test performed	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Ejaz Khan
Resident Engineer, Asif Ali & Associates (Pvt) Ltd. Lahore

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

Client Reference: THDP/RE/01/474

Dated: 21-01-2020

SOM Lab Ref: CED/SOM/2177(Page-1/1)

Dated: 04-02-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar(Mughal 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	1.682	16	16.51	201	214	123.20	148.20	613	576	737	693	32.5	200	16.3	
2	1.684	16	16.53	201	215	125.00	151.70	622	583	754	708	30.0	200	15.0	
3	0.961	12	12.48	113	122	68.20	85.00	603	558	752	695	30.0	200	15.0	
4	0.918	12	12.20	113	117	64.30	81.50	569	551	721	698	25.0	200	12.5	
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BEND TEST:

16MM	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
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

Muhammad Sohail Anjum
 Project Manager, MEK Multistory officers, P-156, Gulberg-II, Lahore

Test Performed By:

Dr. /Engr.

S. Asad Ali
Gillani

Client Reference: P-156-074

Dated: 04-02-2020

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2167(Page-1/1)

Dated: 04-02-2020

ASTM-A-615

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.628	8	0.991	0.79	0.772	28.51	36.26	79600	81450	101230	103590	1.20	8.0	15.0	
2	2.650	8	0.996	0.79	0.779	27.42	35.29	76550	77630	98520	99910	1.20	8.0	15.0	
3	0.661	4	0.497	0.20	0.194	7.70	9.14	84870	87500	100830	103950	1.00	8.0	12.5	
4	0.651	4	0.493	0.20	0.191	7.31	9.09	80600	84400	100270	104990	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Umair Yousaf
Project Manager, MA Engineering Services Lahore

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

Client Reference: MA/UET/001A

SOM Lab 2168(Page-

Ref: 1/1)

Dated: 03-02-2020

Dated: 04-02-2020

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Guage 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.633	6	0.782	0.44	0.480	14.24	21.66	71380	65430	108580	99530	1.30	8.0	16.3	
2	1.616	6	0.778	0.44	0.475	14.02	21.43	70260	65080	107400	99490	1.30	8.0	16.3	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Archt. Kalim A. Siddiqui
Chief Executive, KS Associates, Muzaffargarh

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

Client Reference: KSA/MCB-MZFG/18/J-26
Dated: 30-01-2020
Test: Tension Test
Guage Length: 8 inch

SOM Lab 2170(Page-
Ref: 1/1)
Dated: 04-02-2020
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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.599	8	0.986	0.79	0.764	27.65	35.60	77180	79810	99380	102760	1.40	8.0	17.5	
2	2.588	8	0.984	0.79	0.761	27.53	35.39	76870	79800	98810	102570	1.20	8.0	15.0	
3	1.489	6	0.747	0.44	0.438	15.16	19.72	75980	76330	98870	99320	1.10	8.0	13.8	
4	1.492	6	0.747	0.44	0.438	15.26	19.93	76490	76840	99890	100350	1.20	8.0	15.0	
5	0.602	4	0.475	0.20	0.177	6.47	7.97	71380	80660	87910	99330	1.00	8.0	12.5	
6	0.603	4	0.475	0.20	0.177	6.29	7.92	69360	78370	87340	98690	1.10	8.0	13.8	
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BEND TEST:

--	No Bend test performed	Note:- Only Six Samples Received and Tested

Note: Please always confirm the results of above report on web www.uet-civil.edu.pk

Test Performed by: Dr. Syed Asad Ali Gillani

Engr. Maqsood Ahmed Janjua
Manager,
AMS/United Wire Products, Company,
Lahore

Client Reference No.: ADMIN/UWP/HD/TN-002/201220

Dated: 04-02-2020

SOM Lab Ref: CED/SOM/2171 (Page-1/1)

Dated: 04-02-2020

Test Type: Tensile Test

Sample Type: Wire SWG-16 (1.6mm Diameter)

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (ksi)
1	Wire SWG-16	1.6	1.060	76.48

Note: Please always confirm the results on web www.uet-civil.edu.pk