Maj Adnan Khalid ®

Test Performed By: Dr. /Engr. Nauman Khurram

Dy Dir MTL, Development Of Graveyard Sector - V, DHA Ph-VIII (M/s Arfco)

Client Reference: 408/241/E/613/211 **Dated:** 24-06-2019

SOM Lab Ref: CED/SOM/1019 (Page-1/1) **Dated:** 27-06-2019

Test: Tension Test **Test Specification:** ASTM-F-1554

Sample Type: J - Bolt **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	3.051	22	22.26	380	389	158.50	229.20	417	408	603	590	40.0	200	20.0	
2	3.028	22	22.16	380	386	144.50	212.20	380	375	558	551	52.5	200	26.3	
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BEND TEST:

--	No Bend test performed

Note:-

Only Two Samples Received and Tested

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

Maj Adnan khalid® **Test Performed By:** **Dr. /Engr.** **Nauman Khurram**

Dy Dir MTL, Development of Graveyard, Sector - V, DHA Phase VIII - (M/S Arfco)

Client Reference: **408/241/E/Lab/613/211** **SOM Lab Ref:** **1019(Page-1/1)**

Dated: **24-06-2019** **Dated:** **27-06-2019**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615**

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (City 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	2.589	8	0.984	0.79	0.761	23.01	36.51	64230	66680	101940	105820	1.40	8.0	17.5	
2	2.583	8	0.983	0.79	0.759	23.09	37.33	64460	67090	104210	108470	1.10	8.0	13.8	
3	1.471	6	0.742	0.44	0.432	14.73	19.69	73830	75200	98720	100540	1.10	8.0	13.8	
4	1.471	6	0.742	0.44	0.432	14.42	19.67	72300	73640	98610	100440	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Engr. Muhammad Nayab Khalid **Test Performed By:** **Dr. /Engr.** **S. Asad Ali Gillani**

Planning and Monitoring Engineer, Matrix, Management (Pvt) Ltd.

Client Reference: **MW/MMPL-2/2019/02** **SOM Lab Ref:** **1020(Page-1/1)**

Dated: **27-06-2019** **Dated:** **27-06-2019**

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

Gauge Length: **8 inch** **Sample Type:** **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	2.538	8	0.975	0.79	0.746	28.97	37.05	80880	85650	103450	109550	1.20	8.0	15.0	
2	1.481	6	0.744	0.44	0.435	19.57	22.04	98100	99230	110470	111740	1.00	8.0	12.5	
3	0.665	4	0.498	0.20	0.195	7.10	8.82	78350	80360	97230	99730	1.20	8.0	15.0	
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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

Sub Divisional Officer
Buildings Sub Division, Kasur

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

Client Reference: **748-**
Dated: **12-06-2019**

SOM Lab Ref: **1022 (Page-1/1)**
Dated: **27-06-2019**

Test: **Tension Test**

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

Gauge Length: **8 inch**

Sample Type: **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	1.385	6	0.720	0.44	0.407	14.73	18.30	73830	79820	91720	99150	1.00	8.0	12.5	
2	1.388	6	0.721	0.44	0.408	16.64	20.00	83390	89930	100250	108110	1.00	8.0	12.5	
3	0.639	4	0.489	0.20	0.188	5.66	8.69	62390	66370	95770	101890	1.20	8.0	15.0	
4	0.651	4	0.493	0.20	0.191	5.32	7.95	58680	61440	87680	91810	1.10	8.0	13.8	
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BEND TEST:

--	No Bend test performed

Note:-

Only Four Samples Received and Tested

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

Haseeb ul Rehman
Admin coordinator, EPS Salutions

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

Client Reference: **BS/M3K - EPS-290 LAB 004**
Dated: **27-06-2019**

SOM Lab Ref: **1023(Page-1/1)**
Dated: **27-06-2019**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615**
Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Bilal 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	1.063	5	0.630	0.31	0.312	10.67	13.12	75930	75450	93340	92740	1.20	8.0	15.0	
2	1.073	5	0.633	0.31	0.315	11.62	13.63	82680	81360	96960	95420	1.30	8.0	16.3	
3	0.664	4	0.498	0.20	0.195	7.03	8.74	77560	79550	96340	98810	1.10	8.0	13.8	
4	0.647	4	0.492	0.20	0.190	7.14	8.63	78690	82830	95210	100220	1.00	8.0	12.5	
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BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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