Maj Adnan khalid® **Test Performed By:** **Dr. /Engr.** **S. Asad Ali Gillani**

Dy Dir MTL, Const of Mosque Sector -D, DHA Ph-VI, (M/S Scion)

Client Reference: **408/241/E/Lab/651/458** **SOM Lab Ref:** **1162(Page-1/1)**

Dated: **23-07-2019** **Dated:** **23-07-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Ittefaq 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	1.492	6	0.747	0.44	0.438	13.12	20.10	65760	66060	100760	101220	1.50	8.0	18.8	
2	1.483	6	0.745	0.44	0.436	13.25	18.86	66430	67040	94530	95390	1.40	8.0	17.5	
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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

Hafiz Muhammad Wasif Iqbal **Test Performed By:** **Dr. /Engr.** **S. Asad Ali Gillani**

Project Manager -Civil, Kohinoor Maple Leaf Group. (K M L G.)

Client Reference: **Nil** **SOM Lab Ref:** **1165(Page-1/1)**

Dated: **23-07-2019** **Dated:** **23-07-2019**

Test: **Tension Test & Bend 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	1.465	6	0.741	0.44	0.431	13.15	18.40	65910	67290	92230	94150	1.40	8.0	17.5	
2	1.476	6	0.743	0.44	0.434	13.32	18.62	66780	67710	93350	94640	1.40	8.0	17.5	
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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

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

Resident Engineer, PSIC House, Davis Road, Lahore

Client Reference: **G3/0161** **SOM Lab Ref:** **1166(Page-1/1)**

Dated: **23-07-2019** **Dated:** **23-07-2019**

Test: **Tension Test & Bend 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	2.589	8	0.984	0.79	0.761	26.27	35.29	73340	76130	98520	102280	1.30	8.0	16.3	
2	2.581	8	0.982	0.79	0.758	26.25	35.34	73280	76370	98660	102830	1.20	8.0	15.0	
3	1.488	6	0.746	0.44	0.437	21.61	24.06	108320	109070	120580	121410	1.00	8.0	12.5	
4	1.487	6	0.746	0.44	0.437	21.61	23.96	108320	109070	120070	120900	0.90	8.0	11.3	
5	0.662	4	0.498	0.20	0.195	7.26	8.77	80040	82090	96670	99150	1.00	8.0	12.5	
6	0.660	4	0.497	0.20	0.194	7.03	8.36	77560	79960	92180	95030	1.20	8.0	15.0	
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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
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Saadat Ali Baig
P.M Expo Guld.

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

Client Reference: **01-**
Dated: **23-07-2019**

SOM Lab Ref: **1167(Page-1/1)**
Dated: **23-07-2019**

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

Gauge Length: **8 inch**
Sample Type:

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	21.10	32.36	58910	60920	90360	93430	1.60	8.0	20.0	
2	2.592	8	0.985	0.79	0.762	20.90	32.08	58340	60490	89560	92850	1.50	8.0	18.8	
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BEND TEST:

# 8	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

Deputy Director (Q.C.D)
WASA, LDA, Lahore

Test Performed By: **Dr. /Engr.** **S. Asas Ali Gillni**

Client Reference: **QCD/ 686-87**
Dated: **22-07-2019**

SOM Lab Ref: **1169 (Page-1/1)**
Dated: **24-07-2019**

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	0.530	4	0.446	0.20	0.156	5.20	8.46	57330	73500	93300	119610	0.90	8.0	11.3	
2	0.578	4	0.465	0.20	0.170	5.81	8.46	64080	75380	93300	109760	1.00	8.0	12.5	
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BEND TEST:

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

Note:-

Only Four 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.** **S. Asad Ali Gillani**

Dy Dir MTL, Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

Client Reference: **408/241/E/Lab/649/3176** **SOM Lab Ref:** **1170(Page-1/1)**

Dated: **22-07-2019** **Dated:** **24-07-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Moiz 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	1.463	6	0.740	0.44	0.430	13.71	19.57	68730	70320	98100	100380	1.40	8.0	17.5	
2	1.470	6	0.742	0.44	0.432	14.12	19.62	70770	72080	98360	100180	1.60	8.0	20.0	
3	0.673	4	0.502	0.20	0.198	7.19	9.45	79250	80050	104200	105260	1.40	8.0	17.5	
4	0.673	4	0.502	0.20	0.198	7.21	9.40	79470	80280	103640	104690	1.30	8.0	16.3	
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BEND TEST:

# 6	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

Maj Adnan khalid® **Test Performed By:** **Dr. /Engr.** **S. Asad Ali Gillani**

Dy Dir MTL, Proposed Commercial Plaza, DRGCC Ph-III, DHA Ph-VI, (M/S Construct)

Client Reference: **408/241/E/Lab/648/3160** **SOM Lab Ref:** **1171(Page-1/1)**

Dated: **22-07-2019** **Dated:** **24-07-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Moiz 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	1.464	6	0.740	0.44	0.430	14.07	19.67	70510	72150	98610	100910	1.30	8.0	16.3	
2	1.479	6	0.744	0.44	0.435	14.39	19.47	72150	72980	97590	98710	1.40	8.0	17.5	
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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

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

Senior Engineer,Mansoor Mazhar & Associates, Lahore

Client Reference: **MMA/PVV/WT/05** **SOM Lab Ref:** **1172(P-1/2)**

Dated: **24-7-2019** **Dated:** **24-07-2019**

Test: **Tension Test & Bend 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	2.670	8	1.000	0.79	0.785	32.21	36.85	89930	90500	102880	103530	1.00	8.0	12.5	
2	2.648	8	0.995	0.79	0.778	27.01	34.63	75420	76580	96670	98160	1.10	8.0	13.8	
3	0.573	4	0.462	0.20	0.168	6.78	8.48	74750	88990	93530	111340	1.00	8.0	12.5	
4	0.573	4	0.462	0.20	0.168	6.73	8.48	74190	88320	93530	111340	1.00	8.0	12.5	
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BEND TEST:

# 8	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

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

Senior Engineer,Mansoor Mazhar & Associates, Lahore

Client Reference: **MMA/PVV/WT/06** **SOM Lab Ref:** **1172(P-2/2)**

Dated: **24-7-2019** **Dated:** **24-07-2019**

Test: **Tension Test & Bend 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	1.519	6	0.754	0.44	0.446	15.55	19.08	77920	76870	95650	94360	1.00	8.0	12.5	
2	1.488	6	0.746	0.44	0.437	16.41	19.57	82260	82830	98100	98780	1.20	8.0	15.0	
3	0.562	4	0.458	0.20	0.165	6.60	8.05	72730	88160	88800	107640	0.90	8.0	11.3	
4	0.569	4	0.461	0.20	0.167	6.75	8.38	74420	89120	92400	110660	1.00	8.0	12.5	
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BEND TEST:

# 6	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

Muhammad Ali Mirza
Lahore

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

Client Reference: **Nil**
Dated: **24-07-2019**

SOM Lab Ref: **1173 (Page-1/1)**
Dated: **24-07-2019**

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	1.471	6	0.742	0.44	0.432	15.06	18.62	75470	76870	93350	95080	1.50	8.0	18.8	
2	0.659	4	0.497	0.20	0.194	7.21	8.63	79470	81930	95210	98160	1.10	8.0	13.8	
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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

Faisal Mubarik Shabbir Khan(Retd.) **Test Performed By:** Dr. /Engr. **S. Asad Ali Gillani**

TBt, TI (M), Lieutenant Colonel, Additional Director Development, DHA Phaes-XI (Rehbar) Lahore

Client Reference: 700/3/Girls School/Ph-XI/Projs/2269 **SOM Lab Ref:** 1174(Page-1/1)

Dated: 24-07-2019 **Dated:** 24-07-2019

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Ittefaq 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	2.600	8	0.986	0.79	0.764	22.63	36.49	63180	65330	101880	105350	1.40	8.0	17.5	
2	2.594	8	0.985	0.79	0.762	22.53	36.41	62890	65210	101650	105390	1.30	8.0	16.3	
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BEND TEST:

# 8	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

Muhammad Iqbal Sajid
Project Manager, Lahore Motorway City

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

Client Reference: **nil**
Dated: **24--07-2019**

SOM Lab Ref: **1175(Page-1/1)**
Dated: **24-07-2019**

Test: **Tension Test & Bend 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	1.470	6	0.742	0.44	0.432	13.81	18.81	69240	70520	94270	96020	1.50	8.0	18.8	
2	1.471	6	0.742	0.44	0.432	14.50	19.18	72660	74000	96160	97940	1.60	8.0	20.0	
3	1.040	5	0.624	0.31	0.306	9.12	12.97	64910	65760	92250	93460	1.50	8.0	18.8	
4	1.055	5	0.628	0.31	0.310	9.12	13.58	64910	64910	96600	96600	1.50	8.0	18.8	
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BEND TEST:

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

Amjad Saeed **Test Performed By:** **Dr. /Engr.** **S. asad Ali Gillani**

Resident Engineer, NESPAK (Pvt) Ltd Ltd Lahore

Client Reference: **3994/103/AS/02/117** **SOM Lab Ref:** **1176(Page-1/1)**

Dated: **23-07-2019** **Dated:** **24-07-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Kisan, Super Kisan 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	2.659	8	0.997	0.79	0.781	30.94	37.18	86370	87370	103790	104980	1.00	8.0	12.5	
2	2.629	8	0.992	0.79	0.773	27.83	33.86	77690	79400	94540	96620	1.20	8.0	15.0	
3	1.477	6	0.743	0.44	0.434	16.99	20.85	85180	86350	104490	105930	1.00	8.0	12.5	
4	1.454	6	0.737	0.44	0.427	17.23	20.74	86350	88980	103980	107140	1.00	8.0	12.5	
5	1.029	5	0.620	0.31	0.302	10.67	13.12	75930	77940	93340	95810	1.00	8.0	12.5	
6	1.094	5	0.640	0.31	0.322	10.91	13.35	77600	74710	95000	91460	1.90	8.0	23.8	
7	0.651	4	0.493	0.20	0.191	7.80	9.17	85990	90050	101170	105940	0.80	8.0	10.0	
8	0.650	4	0.493	0.20	0.191	7.80	9.25	85990	90050	101960	106760	0.80	8.0	10.0	
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BEND TEST:

# 8 (S. 1,2)	Sample bend through 180 degrees Satisfactorily without any crack
# 6(S. 3,4)	Sample bend through 180 degrees Satisfactorily without any crack
# 5(S. 5,6)	Sample bend through 180 degrees Satisfactorily without any crack
# 4(S.7,8)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Sixteen Samples Received and Tested

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

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

Planning and Coordination Engineer, International Petrochemocals, Global (Pvt) Ltd. Lahore

Client Reference: Nil **SOM Lab Ref:** 1177(Page-1/1)

Dated: nil **Dated:** 24-07-2019

Test: Tension Test & Bend 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	2.648	8	0.995	0.79	0.778	25.08	35.32	70010	71090	98610	100130	1.30	8.0	16.3	
2	0.663	4	0.498	0.20	0.195	6.22	8.43	68570	70330	92960	95350	1.30	8.0	16.3	
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BEND TEST:

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

Note:-

Only Four Samples Received and Tested

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

Tanveer Ahmad Khan
Material Engineer, DHA Bahawalpur

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

Client Reference: **127/QC/MTL**
Dated: **19-07-2019**

SOM Lab Ref: **1178(Page-1/3)**
Dated: **24-07-2019**

Test: **Tension Test & Bend Test**

Test Specification: **ASTM-A-615 Deformed Bar (Mughal Supreme Steel)**

Gauge Length: **8 inch**

Sample Type:

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	1.066	5	0.631	0.31	0.313	11.79	14.04	83910	83110	99860	98910	1.10	8.0	13.8	
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BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Two Samples Received and Tested

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

Tanveer Ahmad Khan
Material Engineer, DHA Bahawalpur

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

Client Reference: **130/QC/MTL**
Dated: **23-07-2019**

SOM Lab Ref: **1178(Page-2/3)**
Dated: **24-07-2019**

Test: **Tension Test**
Gauge Length: **8 inch**

Test Specification: **ASTM-A-615**
Sample Type: **Deformed Bar (Amrali 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	2.759	8	1.016	0.79	0.811	32.21	40.85	89930	87600	114030	111080	1.10	8.0	13.8	
2	1.470	6	0.742	0.44	0.432	14.88	19.01	74600	75980	95290	97060	1.30	8.0	16.3	
3	1.060	5	0.630	0.31	0.312	10.60	13.30	75420	74940	94640	94040	1.50	8.0	18.8	
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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

Tanveer Ahmad Khan
Material Engineer, DHA Bahawalpur

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

Client Reference: **128/QC/MTL**
Dated: **19-07-2019**

SOM Lab Ref: **1178(Page-3/3)**
Dated: **24-07-2019**

Test: **Tension Test & Bend Test**
Test Specification: **ASTM-A-615 Deformed Bar (FF Steel)**

Gauge Length: **8 inch**
Sample Type:

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	2.670	8	1.000	0.79	0.785	24.28	33.91	67790	68220	94680	95280	1.40	8.0	17.5	
2	1.478	6	0.743	0.44	0.434	14.78	18.88	74090	75110	94630	95940	1.60	8.0	20.0	
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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 Four Samples Received and Tested

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