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

Accounts and Customs Department, SA-RA Group, Energy Construction Trade and Industry Co Inc. Lahore

Client Reference: **MIG/2020/712** **SOM Lab Ref:** **2659(Page-1/1)**

Dated: **30-06-2020** **Dated:** **01-07-2020**

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

Gauge 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	2.624	8	0.991	0.79	0.771	24.74	35.29	69070	70770	98520	100950	1.40	8.0	17.5	
2	2.633	8	0.993	0.79	0.774	24.57	34.93	68590	70000	97530	99540	1.40	8.0	17.5	
3	2.629	8	0.992	0.79	0.773	28.41	38.04	79310	81060	106210	108540	1.30	8.0	16.3	
4	1.521	6	0.754	0.44	0.447	14.48	21.61	72560	71420	108320	106630	1.30	8.0	16.3	
5	1.554	6	0.763	0.44	0.457	15.16	20.29	75980	73150	101680	97900	1.20	8.0	15.0	
6	1.559	6	0.764	0.44	0.458	16.18	20.74	81090	77900	103980	99890	1.40	8.0	17.5	
7	0.641	4	0.489	0.20	0.188	5.47	8.02	60370	64220	88470	94110	1.50	8.0	18.8	
8	0.649	4	0.493	0.20	0.191	5.45	8.12	60140	62980	89590	93810	1.40	8.0	17.5	
9	0.642	4	0.491	0.20	0.189	5.91	8.58	65200	68990	94650	100160	1.30	8.0	16.3	
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BEND TEST:

#8(Sr.1,2,3)	Sample bend through 180 degrees Satisfactorily without any crack
#6(Sr.4,5,6)	Sample bend through 180 degrees Satisfactorily without any crack
#4(Sr.7,8,9)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Eighteen Samples Received and Tested

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

Engr. Muhammad Kaleem Sheikh
Chief Resident Engineer, M-3 IC Industrial City, Faislabad

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

Client Reference: **CRE/M3IC/FIC-035/Lab/132**
Dated: **25-06--2020**

SOM Lab Ref: **2660 (Page-1/1)**
Dated: **01-07-2020**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615**
Gauge Length: **8 inch** **Sample Type:** **Deformed Bar(Agha 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	1.036	5	0.622	0.31	0.304	8.99	10.16	63970	65230	72310	73730	1.30	8.0	16.3	
2	1.036	5	0.622	0.31	0.304	8.89	10.09	63240	64490	71800	73220	1.40	8.0	17.5	
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BEND TEST:

# 5	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

Syed Mohsin Ali **Test Performed By:** **Dr. /Engr.** **M Irfan Ul Hassan**

Manager QA/QC, Department, Bahria Town, (Pvt) Ltd Lahore

Client Reference: **QA/QC-Steel-2013** **SOM Lab Ref:** **2661(Page-1/1)**

Dated: **29-06-2020** **Dated:** **01-07-2020**

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	1.505	6	0.750	0.44	0.442	16.28	19.80	81600	81230	99230	98780	1.00	8.0	12.5	
2	1.510	6	0.752	0.44	0.444	16.72	19.85	83800	83040	99480	98590	1.00	8.0	12.5	
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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

Ikram Ul Haq (Retired) **Test Performed By:** **Dr. /Engr.** **S. Asad Ali Gillani**

Lieutenant Colonel, Additional Director (Development) Multan

Client Reference: **Nil** **SOM Lab Ref:** **2662(Page-1/1)**

Dated: **29-06-2020** **Dated:** **01-07-2020**

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	1.661	6	0.788	0.44	0.488	15.57	23.26	78020	70350	116600	105130	1.20	8.0	15.0	
2	1.659	6	0.788	0.44	0.488	15.57	23.26	78020	70350	116600	105130	1.20	8.0	15.0	
3	0.614	4	0.479	0.20	0.180	5.96	7.97	65760	73070	87910	97670	1.00	8.0	12.5	
4	0.613	4	0.479	0.20	0.180	5.96	7.97	65760	73070	87910	97670	1.10	8.0	13.8	
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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

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

Resident Engineer, AZEA, Sialkot Residency

Client Reference: **AZEA/SIALKOT/ADPM/20/013** **SOM Lab Ref:** **2663 (Page-1/1)**

Dated: **01-07-2020** **Dated:** **01-07-2020**

Test: **Tension Test & Bend 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	0.681	4	0.505	0.20	0.200	7.59	9.04	83750	83750	99710	99710	1.00	8.0	12.5	
2	0.682	4	0.505	0.20	0.200	7.54	9.07	83180	83180	100050	100050	1.10	8.0	13.8	
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BEND TEST:

# 4	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

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

Dy Dir MTL, Entry Gate Towards Ring Road Sector-F, Prism-9, DHA Ph-9(-M/S NA Associates)

Client Reference: **408/241/E/Lab/933** **SOM Lab Ref:** **2664(Page-1/1)**

Dated: **29-06-2020** **Dated:** **01-07-2020**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615 Deformed Bar (AF 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	0.663	4	0.498	0.20	0.195	6.42	8.56	70820	72640	94420	96850	1.00	8.0	12.5	
2	0.659	4	0.497	0.20	0.194	6.65	8.87	73290	75560	97800	100820	0.90	8.0	11.3	
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BEND TEST:

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

Project Coordinator, Noor Durrani & Associates, Lahore

Client Reference: **J/0606/270** **SOM Lab Ref:** **2665(Page-1/1)**

Dated: **30-06-2020** **Dated:** **01-07-2020**

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	2.555	8	0.978	0.79	0.751	23.04	31.52	64320	67660	87990	92560	1.30	8.0	16.3	
2	2.539	8	0.975	0.79	0.746	22.65	31.24	63240	66970	87230	92370	1.30	8.0	16.3	
3	1.504	6	0.750	0.44	0.442	17.81	21.56	89260	88860	108070	107580	1.20	8.0	15.0	
4	1.472	6	0.743	0.44	0.433	16.56	20.64	83030	84370	103470	105140	1.30	8.0	16.3	
5	0.684	4	0.506	0.20	0.201	6.90	8.43	76100	75720	92960	92500	1.40	8.0	17.5	
6	0.681	4	0.505	0.20	0.200	6.73	8.43	74190	74190	92960	92960	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	**Note:-**
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	**Only Nine Samples Received and Tested**

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