For RFA Construction Company **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani

Project: DOL-HP Capacity Enhancement Project (Descon Engineering Limitrd)

Client Reference: Nil **Dated:** 24-01-2020

SOM Lab Ref: CED/SOM/2107 (Page-1/1) **Dated:** 24-01-2020

Test: Tension Test & Bend 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	2.193	20	18.85	314	279	136.70	202.70	435	490	645	727	30.0	200	15.0	
2	2.195	20	18.87	314	280	133.00	188.20	423	476	599	674	30.0	200	15.0	
3	0.966	12	12.52	113	123	63.00	83.50	557	513	738	679	32.5	200	16.3	
4	0.973	12	12.56	113	124	62.70	83.00	554	506	734	670	32.5	200	16.3	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

Mian Sohail Nisar **Test Performed By:** **Dr. /Engr.** Nuaman Khurram

Managing Director, A. T. S. Synthetic (Pvt) Ltd. Lahore

Client Reference: Nil **SOM Lab Ref:** 2102(Page-1-1)

Dated: 23-01-2020 **Dated:** 24-01-2020

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	2.688	8	1.003	0.79	0.790	28.80	36.62	80400	80400	102220	102220	1.30	8.0	16.3	
2	2.673	8	1.000	0.79	0.786	28.39	36.52	79260	79660	101970	102480	1.50	8.0	18.8	
3	1.454	6	0.737	0.44	0.427	14.73	19.42	73830	76080	97340	100300	1.30	8.0	16.3	
4	1.451	6	0.736	0.44	0.426	14.85	19.52	74450	76890	97850	101060	1.40	8.0	17.5	
5	1.011	5	0.615	0.31	0.297	11.21	14.50	79780	83270	103130	107640	1.30	8.0	16.3	
6	1.024	5	0.619	0.31	0.301	11.57	14.95	82310	84780	106390	109570	1.20	8.0	15.0	
7	0.645	4	0.492	0.20	0.190	7.05	8.89	77790	81880	98020	103180	1.00	8.0	12.5	
8	0.645	4	0.492	0.20	0.190	7.00	8.82	77230	81290	97230	102350	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
# 5	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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

M/S FAG TEXTILE
Chak No. R-B, Faisalabad

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

Client Reference: nil
Dated: 24-01-2020

SOM Lab Ref: 2104(Page-1/1)
Dated: 24-01-2020

Test: Tension Test
Guage Length: 8 inch

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	2.585	8	0.984	0.79	0.760	21.41	33.71	59760	62120	94110	97830	1.50	8.0	18.8	
2	1.455	6	0.738	0.44	0.428	12.10	19.32	60650	62350	96830	99540	1.30	8.0	16.3	
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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

Executive Engineer
Jhrlum Division UJC, Jhelum

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

Client Reference: 1049-
Dated: 23-01-2020

SOM Lab Ref: 2106(Page-1/1)
Dated: 24-01-2020

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
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	2.626	8	0.991	0.79	0.772	28.00	36.24	78180	80000	101170	103530	1.30	8.0	16.3	
2	2.627	8	0.991	0.79	0.772	28.15	36.51	78600	80440	101940	104310	1.30	8.0	16.3	
3	1.492	6	0.747	0.44	0.438	16.74	21.22	83900	84280	106380	106870	1.20	8.0	15.0	
4	1.493	6	0.748	0.44	0.439	16.56	21.07	83030	83220	105610	105850	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

Note:-

Only Six Samples Received and Tested

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