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

M.E., A. S. Enterpriises (ASE) (Project: STYLE TEXTILE MILL)

Client Reference: USD/ASE/16 **Dated:** 25-08-2019

SOM Lab Ref: CED/SOM/1290(Page-1/1) **Dated:** 26-08-2019

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

Sample Type: Deformed Bar (AFCO 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	3.660	25	24.36	491	466	226.70	301.00	462	487	613	646	35.0	200	17.5	
2	3.623	25	24.24	491	461	229.50	322.70	468	498	657	700	35.0	200	17.5	
3	2.057	20	18.27	314	262	125.50	166.70	399	480	531	637	40.0	200	20.0	
4	2.051	20	18.24	314	261	129.20	170.00	411	495	541	651	40.0	200	20.0	
5	1.568	16	15.95	201	200	117.00	143.50	582	586	714	719	25.0	200	12.5	
6	1.578	16	16.00	201	201	117.20	143.70	583	583	715	715	27.5	200	13.8	
7	0.864	12	11.84	113	110	47.20	65.20	417	429	576	593	37.5	200	18.8	
8	0.859	12	11.80	113	109	46.50	64.50	411	426	570	590	40.0	200	20.0	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

Sub Divisional Officer
Highway Sub Division, T. T. Singh

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

Client Reference: **82-**
Dated: **10-08-2019**

SOM Lab Ref: **1286(Page-1/1)**
Dated: **26-08-2019**

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	2.678	8	1.001	0.79	0.787	26.45	33.18	73850	74130	92630	92990	1.50	8.0	18.8	
2	2.687	8	1.003	0.79	0.790	28.34	35.09	79120	79120	97950	97950	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

Tahir Mehmood
Chief Engineer (Infra) New Lahore City

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

Client Reference: **NLC/CE/Infra/005**
Dated: **23-08-2019**

SOM Lab Ref: **1287 (Page-1/1)**
Dated: **26-08-2019**

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	0.664	4	0.498	0.20	0.195	5.93	8.89	65420	67100	98020	100530	1.40	8.0	17.5	
2	0.662	4	0.498	0.20	0.195	5.78	8.63	63740	65370	95210	97650	1.40	8.0	17.5	
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Witnessed By: **M Javid Iqbal**

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

Khalid Latif Sheikh
PMCS Manager, MAK Associates, Lahore

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

Client Reference: **MAK/PAF/SV-GL/TB-028**
Dated: **20-08-2019**

SOM Lab Ref: **1288(Page-1/1)**
Dated: **26-08-2019**

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	1.586	6	0.770	0.44	0.466	13.93	20.80	69850	65950	104230	98420	1.30	8.0	16.3	
2	1.575	6	0.768	0.44	0.463	13.97	20.92	70000	66530	104850	99640	1.20	8.0	15.0	
3	0.668	4	0.500	0.20	0.196	6.57	9.70	72510	73990	107010	109200	1.00	8.0	12.5	
4	0.677	4	0.503	0.20	0.199	6.42	9.63	70820	71180	106230	106760	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

Furqan Ali Malik **Test Performed By:** **Dr. /Engr.** **Nauman Khurram**

Chief Resident Engineer, Package -I, NESPAK, (Pvt) Ltd. Lahore

Client Reference: **4042/13/FAM/Steel-092** **SOM Lab Ref:** **1291,1292(Page-1/1)**

Dated: **24-08-2019** **Dated:** **26-08-2019**

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	0.665	4	0.498	0.20	0.195	6.49	8.51	71610	73440	93860	96270	1.30	8.0	16.3	
2	0.664	4	0.498	0.20	0.195	6.47	8.51	71380	73210	93860	96270	1.30	8.0	16.3	
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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

Faisal Mubarik Shabbir Khan(Retd.) **Test Performed By:** **Dr. /Engr. Nauman Khurram**

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

Client Reference: **700/3/Girls School/Ph-XI/Projs/2539** **SOM Lab Ref:** **1294(Page-1/1)**

Dated: **26-08-2019** **Dated:** **26-08-2019**

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	1.481	6	0.744	0.44	0.435	13.61	20.49	68210	69000	102700	103880	1.30	8.0	16.3	
2	1.486	6	0.746	0.44	0.437	13.73	20.54	68830	69300	102960	103660	1.40	8.0	17.5	
3	0.674	4	0.502	0.20	0.198	6.47	9.81	71380	72100	108140	109230	1.10	8.0	13.8	
4	0.670	4	0.501	0.20	0.197	6.39	9.73	70480	71560	107350	108990	1.20	8.0	15.0	
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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