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

Resident Engineer, NESPAK (Pvt) Ltd Ltd Lahore

Client Reference: **3994/103/AS/01/86** **SOM Lab Ref:** **576(Page-1/2)**

Dated: **30-03-2019** **Dated:** **01-04-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (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	2.658	8	0.997	0.79	0.781	23.26	37.61	64940	65690	105010	106220	1.30	8.0	16.3	
2	2.574	8	0.981	0.79	0.756	20.64	31.11	57630	60220	86860	90760	1.40	8.0	17.5	
3	1.033	5	0.622	0.31	0.304	11.49	14.17	81730	83350	100810	102800	1.10	8.0	13.8	
4	1.033	5	0.622	0.31	0.304	11.44	14.34	81370	82980	102040	104050	1.00	8.0	12.5	
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BEND TEST:

# 8	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.** **Nauman Khurram**

Resident Engineer, NESPAK (Pvt) Ltd Ltd Lahore

Client Reference: **3994/103/AS/01/86** **SOM Lab Ref:** **576(Page-2/2)**

Dated: **30-03-2019** **Dated:** **01-04-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (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	1.485	6	0.745	0.44	0.436	15.80	21.00	79200	79930	105260	106220	1.20	8.0	15.0	
2	1.491	6	0.747	0.44	0.438	15.85	20.85	79450	79820	104490	104970	1.00	8.0	12.5	
3	0.679	4	0.505	0.20	0.200	7.65	9.07	84310	84310	100050	100050	0.90	8.0	11.3	
4	0.643	4	0.491	0.20	0.189	7.41	8.84	81720	86480	97460	103130	0.90	8.0	11.3	
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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

Najam us Saqlain **Test Performed By:** **Dr. /Engr. Bialal A. Khokhar**

Manager Civil, US Denim Mills (Pvt) Ltd. Lahore

Client Reference: **US/Real/CIV/Izmir/01** **SOM Lab Ref:** **CED/SOM/577(Page-1/1)**

Dated: **30-03-2019** **Dated:** **02-04-2019**

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	2.617	8	0.990	0.79	0.769	23.16	33.61	64660	66420	93830	96390	1.40	8.0	17.5	
2	1.468	6	0.741	0.44	0.431	13.43	21.27	67290	68700	106640	108860	1.10	8.0	13.8	
3	0.651	4	0.493	0.20	0.191	6.03	8.31	66550	69680	91610	95930	0.90	8.0	11.3	
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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 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.** **Nauman Khurram**

Dy Dir MTL, Infra Dev Woks Sector -M (Extension), DHA Ph-V, (M/S AAJ Engrs)

Client Reference: **408/241/E/Lab/511/13** **SOM Lab Ref:** **579(Page-1/1)**

Dated: **02-04-2019** **Dated:** **02-04-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (S. J. 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	2.652	8	0.996	0.79	0.779	24.26	34.76	67730	68690	97040	98410	1.00	8.0	12.5	
2	2.663	8	0.998	0.79	0.783	24.82	35.27	69300	69920	98470	99350	1.40	8.0	17.5	
3	1.413	6	0.727	0.44	0.415	15.11	19.59	75720	80290	98210	104120	1.10	8.0	13.8	
4	1.421	6	0.730	0.44	0.418	14.63	19.13	73320	77180	95910	100950	1.20	8.0	15.0	
5	1.052	5	0.627	0.31	0.309	9.50	14.14	67590	67810	100590	100910	1.10	8.0	13.8	
6	1.053	5	0.627	0.31	0.309	9.04	13.43	64330	64540	95510	95820	1.20	8.0	15.0	
7	0.663	4	0.498	0.20	0.195	7.61	9.33	83970	86120	102860	105490	1.00	8.0	12.5	
8	0.663	4	0.498	0.20	0.195	7.77	10.09	85660	87850	111290	114140	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

Akhtar Hameed **Test Performed By:** **Dr. /Engr. Bilal A. Khokhar**

Project Manager, Al Rafiq Construction Co. (Pvt) Ltd.

Client Reference: nil **SOM Lab Ref: 580(Page-1/1)**

Dated: nil **Dated: 02-04-2019**

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

Gauge Length: 8 inch **Sample Type: Deformed Bar(Fazal Steel Islamabad)**

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	1.030	5	0.621	0.31	0.303	10.52	12.15	74840	76570	86450	88440	1.20	8.0	15.0	
2	1.046	5	0.625	0.31	0.307	10.37	11.98	73760	74480	85210	86050	1.10	8.0	13.8	
3	0.613	4	0.479	0.20	0.180	6.57	7.80	72510	80560	85990	95550	1.00	8.0	12.5	
4	0.616	4	0.480	0.20	0.181	6.57	8.18	72510	80120	90150	99620	0.90	8.0	11.3	
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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

Sub Divisional Officer
GC University, Faisalabad

Test Performed By: **Dr. /Engr.** **Bilal A Khokhar**

Client Reference: **GCUF/EC/0313**
Dated: **27-02-2019**

SOM Lab Ref: **585 (Page-1/1)**
Dated: **02-04-2019**

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	1.468	6	0.741	0.44	0.431	14.37	18.78	72050	73550	94120	96080	1.10	8.0	13.8	
2	1.461	6	0.739	0.44	0.429	14.42	18.83	72300	74160	94370	96790	1.20	8.0	15.0	
3	0.654	4	0.494	0.20	0.192	6.22	8.38	68570	71430	92400	96250	1.00	8.0	12.5	
4	0.659	4	0.497	0.20	0.194	6.37	8.53	70260	72430	94090	97000	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