Assistant Engineer (C) **Test Performed By:** **Dr. /Engr.** **M Rehan Ashraf**
University of Sargodha

Client Reference: **SU/P-D(W)/16031** **SOM Lab Ref:** **950(Page-1/1)**
Dated: **10-06-2019** **Dated:** **13-06-2019**

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	1.550	6	0.762	0.44	0.456	12.28	18.93	61570	59410	94880	91560	1.40	8.0	17.5	
2	1.544	6	0.760	0.44	0.454	12.23	18.96	61320	59430	95040	92110	1.30	8.0	16.3	
3	0.656	4	0.496	0.20	0.193	5.76	7.92	63510	65820	87340	90510	1.00	8.0	12.5	
4	0.656	4	0.496	0.20	0.193	6.73	10.09	74190	76880	111290	115320	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

Sr. Construction Engineer **Test Performed By:** **Dr. /Engr. Amna Rajput**

Construction Division-I, WASA, (LDA). Lahore

Client Reference: **CD-I/259** **SOM Lab Ref:** **951(Page-1/1)**

Dated: **29-05-2019** **Dated:** **13-06-2019**

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	0.662	4	0.498	0.20	0.195	5.12	7.39	56430	57880	81500	83590	1.40	8.0	17.5	
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BEND TEST:

# 4	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

M. Hanif Ashraf Khokhar **Test Performed By:** **Dr. /Engr. Amna Rajpoot**

Resident Engineer, NESPAK (Pvt) Ltd Ltd Lahore

Client Reference: **4047R/13/HAK/04/MCC/03** **SOM Lab Ref:** **952(Page-1/1)**

Dated: **30-05-2019** **Dated:** **13-06-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Kamran 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	0.657	4	0.496	0.20	0.193	5.91	8.48	65200	67560	93530	96920	1.20	8.0	15.0	
2	0.661	4	0.497	0.20	0.194	5.73	8.33	63180	65130	91840	94680	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

Maj Adnan khalid® **Test Performed By:** Dr. /Engr. **Amna Rajpoot**

Dy Dir MTL, Infra Dev Works IVY Green, Sector-Z, DHA Ph-VIII - (M/S MCC Ruba)

Client Reference: **408/241/E/Lab/595/326** **SOM Lab Ref:** **953(Page-1/1)**

Dated: **28-06-2019** **Dated:** **13-06-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (City 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	0.659	4	0.497	0.20	0.194	5.71	8.41	62950	64900	92740	95610	1.20	8.0	15.0	
2	0.673	4	0.502	0.20	0.198	5.52	8.41	60930	61540	92740	93680	1.40	8.0	17.5	
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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

M/S PACHEM
Global (Pvt) Ltd. Lahore

Test Performed By: Dr. /Engr. **Amna Rajpoot**

Client Reference: **Nil**
Dated: **13-06-2019**

SOM Lab Ref: **954(Page-1/1)**
Dated: **13-06-2019**

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	2.566	8	0.980	0.79	0.754	24.77	34.20	69160	72460	95480	100040	1.30	8.0	16.3	
2	0.580	4	0.465	0.20	0.170	5.45	7.72	60140	70750	85100	100110	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 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.** **Riaz Ahmed Goraya**

Client Reference: **73/DHAB/Lab**
Dated: **11-06-2019**

SOM Lab
Ref: **955(Page-1/1)**
Dated: **13-06-2019**

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

Gauge Length: **8 inch** **Sample Type:** **Deformed Bar (Karachi 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	1.031	5	0.621	0.31	0.303	8.70	13.22	61860	63290	94060	96240	1.00	8.0	12.5	
2	0.669	4	0.501	0.20	0.197	6.12	8.97	67450	68470	98920	100430	1.20	8.0	15.0	
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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 Four Samples Received and Tested

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