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

Dy Dir MTL, Const. of Additional Room at MTL Block-B, DHA Town Ph-IX, (M/S Tahira Const.)

Client Reference: 408/241/E/Lab/1060/22 **SOM Lab Ref:** 3433(Page-1/1)

Dated: 14-12-2020 **Dated:** 15-12-2020

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Itrfaq 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	1.514	6	0.753	0.44	0.445	15.01	18.45	75210	74370	92480	91440	1.10	8.0	13.8	
2	1.505	6	0.750	0.44	0.442	13.66	17.40	68470	68160	87220	86830	1.20	8.0	15.0	
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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

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

Resident Engr, New Vision Engineering Consultant, BZU , Multan

Client Reference: **RE/NVEC/BZU/20/65** **SOM Lab Ref:** **3434 (Page-1/1)**

Dated: **02-12-2020** **Dated:** **15-12-2020**

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	1.518	6	0.754	0.44	0.446	13.99	19.64	70100	69160	98460	97140	1.30	8.0	16.3	
2	1.043	5	0.625	0.31	0.307	9.94	13.93	70710	71400	99140	100110	1.30	8.0	16.3	
3	0.666	4	0.500	0.20	0.196	6.29	8.58	69360	70770	94650	96580	1.30	8.0	16.3	
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BEND TEST:

# 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 Six Samples Received and Tested

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

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

Resident Engr, New Vision Engineering Consultant, BZU , Multan

Client Reference: **RE/NVEC/BZU/20/67** **SOM Lab Ref:** **3435 (Page-1/1)**

Dated: **02-12-2020** **Dated:** **15-12-2020**

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	1.500	6	0.749	0.44	0.441	14.19	19.69	71130	70970	98720	98490	1.20	8.0	15.0	
2	1.033	5	0.622	0.31	0.304	10.01	13.86	71220	72620	98630	100580	1.30	8.0	16.3	
3	0.663	4	0.498	0.20	0.195	6.34	8.69	69920	71710	95770	98230	1.00	8.0	12.5	
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BEND TEST:

# 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 Six Samples Received and Tested

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

Maj. Engrs. Qamar Naseem
Garrion Engineer (A) - Mangla Cantt.

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

Client Reference: **6311/39/E6**
Dated: **26-10-2020**

SOM Lab Ref: **3436(Page-1/1)**
Dated: **15-12-2020**

Test: **Tension Test & Bend Test** **Test Specification:** **ASTM-A-615**
Guage Length: **8 inch** **Sample Type:** **Deformed Bar (AF 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	2.636	8	0.993	0.79	0.775	25.38	33.81	70860	72230	94400	96220	1.20	8.0	15.0	
2	2.627	8	0.991	0.79	0.772	24.77	33.20	69160	70770	92690	94850	1.30	8.0	16.3	
3	1.504	6	0.750	0.44	0.442	13.12	19.08	65760	65460	95650	95220	1.30	8.0	16.3	G-60
4	1.503	6	0.750	0.44	0.442	13.12	18.86	65760	65460	94530	94100	1.20	8.0	15.0	G-60
5	1.043	5	0.625	0.31	0.307	9.60	13.53	68320	68990	96240	97180	1.20	8.0	15.0	G-60
6	1.090	5	0.638	0.31	0.320	9.79	13.63	69620	67450	96960	93930	1.30	8.0	16.3	G-60
7	0.659	4	0.497	0.20	0.194	6.27	8.61	69130	71270	94990	97920	1.00	8.0	12.5	G-60
8	0.662	4	0.498	0.20	0.195	6.32	8.66	69700	71480	95550	98000	1.00	8.0	12.5	G-60
9	0.794	4	0.545	0.20	0.233	5.10	7.34	56210	48250	80940	69470	1.40	8.0	17.5	G-40
10	0.791	4	0.543	0.20	0.232	5.27	7.41	58120	50100	81720	70450	1.50	8.0	18.8	G-40

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
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Fifteen Samples Received and Tested

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

Construction Manager
NESPAK, (Pvt) Ltd. Lahore

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

Client Reference: **3976/13/MHK/01/159**
Dated: **15-12-2020**

SOM Lab Ref: **3437(Page-1/1)**
Dated: **15-12-2020**

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	1.505	6	0.750	0.44	0.442	16.62	20.92	83290	82910	104850	104370	1.10	8.0	13.8	
2	1.475	6	0.743	0.44	0.433	17.02	20.64	85330	86710	103470	105140	1.20	8.0	15.0	
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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

Khurram Shahzad
Lahore

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

Client Reference: **Nil**
Dated: **Nil**

SOM Lab Ref: **3439(Page-1/1)**
Dated: **15-12-2020**

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	1.473	6	0.743	0.44	0.433	18.55	22.17	92990	94500	111130	112930	0.80	8.0	10.0	
2	0.663	4	0.498	0.20	0.195	7.26	9.38	80040	82090	103420	106070	0.80	8.0	10.0	
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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

Test Performed by: Dr. Asad Ali Gillani

General Manager
United Wire Products Co.
G. T. Road Salamatpura Bus Stop.Lahore

Client Reference No.: Nil **Dated: 12-12-2020**

SOM Lab Ref: CED/SOM/3438 (Page 1/1) **Dated: 15-12-2020**

Test Type: Tensile Test

Sample Type: Hot Dip Wire (SWG-16)

Tensile Test Results

Sample No.	Sample Type	Sample Dia (mm)	Ultimate Load (kN)	Ultimate Tensile Strength (MPa)	Ultimate Tensile Stress (ksi)
1	Hot Dip Wire SWG-16	1.6	1.0	497	72.086

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