Major Muhammad Aslam, (Retd) **Test Performed By:** **Dr. /Engr.** S. Asad Ali Gillani

Resident Engineer, Penta Square Project, Al-Imam Enterprises (Pvt) Ltd Lahore

Client Reference: Al-Imam/746/PS-1/DHA/LHE/1168 **Dated:** 08-10-2020

SOM Lab Ref: CED/SOM/3078(Page-1/1) **Dated:** 09-10-2020

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

Sample Type: Deformed Bar(Kamran 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	3.816	25	24.88	491	486	237.00	326.20	483	488	665	672	37.5	200	18.8	
2	3.820	25	24.89	491	487	252.00	340.20	513	518	693	700	37.5	200	18.8	
3	2.339	20	19.48	314	298	136.50	201.20	434	459	640	676	40.0	200	20.0	
4	2.394	20	19.70	314	305	140.00	209.50	446	460	667	688	40.0	200	20.0	
5	0.876	12	11.92	113	112	51.20	73.00	453	459	645	655	32.5	200	16.3	
6	0.888	12	12.00	113	113	51.70	73.50	457	458	650	650	35.0	200	17.5	
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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
12mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine 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/01/129
Dated: 06-10-2020

SOM Lab Ref: 3075(Page-1/1)
Dated: 09-10-2020

Test: Tension Test & Bend Test
Gauge 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	2.687	8	1.003	0.79	0.790	26.20	35.58	73140	73140	99320	99320	1.20	8.0	15.0	
2	2.685	8	1.002	0.79	0.789	26.66	35.63	74420	74510	99460	99590	1.50	8.0	18.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack
# 8	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

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

P.I(WASO)GINUM, Pakistan Atomic Energy Commission

Client Reference: nil **SOM Lab Ref:** 3076(Page-1/1)

Dated: 07-10-2020 **Dated:** 08-10-2020

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	2.686	8	1.002	0.79	0.789	29.63	35.78	82730	82830	99890	100020	1.00	8.0	12.5	
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BEND TEST:

# 8	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

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

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

Client Reference: 4042/13/FAM/Steel-177 **SOM Lab Ref:** 3079(Page-1/1)

Dated: 23-09-2020 **Dated:** 09-10-2020

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

Gauge Length: 8 inch **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	0.647	4	0.492	0.20	0.190	7.19	8.84	79250	83420	97460	102590	1.30	8.0	16.3	
2	0.647	4	0.492	0.20	0.190	7.19	8.84	79250	83420	97460	102590	1.20	8.0	15.0	
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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

Khalid Bashir **Test Performed By:** **Dr. /Engr.** S. Asas Ali Gillani

Ittefaq Building Solution (Pvt) Ltd. Lahore (Project Name: ATS-02)

Client Reference: IBS/ATS/ST00 **SOM Lab Ref:** 3080 (Page-1/1)

Dated: 09-10-2020 **Dated:** 09-10-2020

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	2.634	8	0.993	0.79	0.774	26.10	36.87	72850	74360	102930	105060	1.30	8.0	16.3	
2	1.487	6	0.746	0.44	0.437	13.27	18.30	66530	66980	91720	92350	1.60	8.0	20.0	
3	1.053	5	0.627	0.31	0.309	10.11	13.88	71940	72180	98780	99100	1.40	8.0	17.5	
4	0.648	4	0.492	0.20	0.190	5.68	8.12	62610	65910	89590	94310	1.30	8.0	16.3	
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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
# 5	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Eight 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

Engr Maqsood Ahmed Janjua
Manager
United Wire Products Company,
Lahore

Client Reference No.: ADMIN/UWP/HD/TN-002/71020 Dated: 07-10-2020

SOM Lab Ref: CED/SOM/3077 (Page 1/1) Dated: 09-10-2020

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	1.17	582.089	84.424

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