

M. Ilam Ud Din & Sons
Lahore

Test Performed By: Dr. /Engr. M Irfan UI Hassan

Client Reference: Nil
SOM Lab Ref: CED/SOM/4014(Page-1/1)
Test: Tension Test
Sample Type: H. T. Wire

Dated: 11-03-2021
Dated: 11-03-2021
Test Specification: ASTM-A 82
Gauge Length: 50 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	0.495	10	8.96	79	63	32.50	43.20	414	516	550	686	12.5	50	25.0	
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BEND TEST:

--	No Bend test performed	Note:- Only One Sample Received and Tested

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

Mian Muhammad Arshad Builder
 Engineer & Contractor, (Project: Palm Avenue 2, Commercial Building, Sukh Chaya Garden, Multan Road
 Lahore)

Test Performed By:

Dr. /Engr. Nauman Khurram

Client Reference: 00-A1

SOM Lab Ref: 4012(Page-1/1)

Dated: 11-03-2021

Dated: 11-03-2021

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	2.703	8	1.005	0.79	0.794	25.96	35.39	72480	72120	98810	98310	1.50	8.0	18.8	
2	2.696	8	1.004	0.79	0.792	26.01	35.60	72630	72440	99380	99130	1.50	8.0	18.8	
3	1.496	6	0.748	0.44	0.440	14.98	19.95	75110	75110	99990	99990	1.30	8.0	16.3	
4	1.501	6	0.749	0.44	0.441	14.80	20.03	74190	74020	100400	100170	1.40	8.0	17.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	

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

Khalid Mahmood

Resident Engineer, NESPAK JV Turk Pak Resident Const. Supervision for Establishment of D. G. Khan (M/s ZKB)

Test Performed By:

Dr. /Engr.

Nauman
Khurram

Client Reference: 4161/RE/SFMKB/DGK/242

SOM Lab Ref: 4013(Page-1/1)

Dated: 05-03-2021

Dated: 11-03-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar(ITTEHAD 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	2.632	8	0.992	0.79	0.773	22.24	33.81	62100	63460	94400	96470	1.50	8.0	18.8	
2	2.646	8	0.995	0.79	0.778	22.07	33.54	61610	62560	93630	95070	1.40	8.0	17.5	
3	1.490	6	0.747	0.44	0.438	13.32	19.90	66780	67090	99740	100190	1.50	8.0	18.8	
4	1.492	6	0.747	0.44	0.438	13.27	19.85	66530	66830	99480	99940	1.50	8.0	18.8	
5	0.666	4	0.500	0.20	0.196	6.14	8.77	67670	69050	96670	98650	1.30	8.0	16.3	
6	0.670	4	0.501	0.20	0.197	6.17	8.79	68010	69050	96900	98370	1.30	8.0	16.3	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine Samples Received and Tested
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

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

Brigadier Muhammad Akhtar
(Retd.)

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

Project Director, New Metro City, Kharian Sarai Alamgir

Client Reference: PD/NMC/20/045

SOM Lab 4015(Page-1/1)

Dated: 11-03-2021

Dated: 11-03-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (City UAE 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	1.010	5	0.615	0.31	0.297	11.93	15.11	84850	88570	107480	112180	1.10	8.0	13.8	
2	0.644	4	0.491	0.20	0.189	5.22	7.71	57560	60910	84980	89930	1.40	8.0	17.5	
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BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
# 4	Sample bend through 180 degrees Satisfactorily without any crack	

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

Test Performed by: .S. Asad Ali Gillani

Vision Engineering Services,
New Kot Juspat Shahdara Town Lahore

Client Reference No.: Nil

Dated: nil

SOM Lab Ref: CED/SOM/4017 (Page 1/1)

Dated: 11-03-2021

Test Type: Tensile Test

Sample Type: Nut - Bolts (20x80mm)

Test Specification: ASTM – F-606

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation
1	HS – Bolt HT (20 x 80mm)	14.0	112.2	728.86	Thread Frailer at This Load

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

Test Performed by: .S. Asad Ali Gillani

Vision Engineering Services,
New Kot Juspat Shahdara Town Lahore

Client Reference No.: Nil

Dated: nil

SOM Lab Ref: CED/SOM/4017 (Page 1/1)

Dated: 11-03-2021

Test Type: Tensile Test

Sample Type: Nut - Bolts (20x80mm)

Test Specification: ASTM – F-606

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation
1	HS – Bolt HT (20 x 80mm)	13.8	115.2	770.0	20.0

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

Test Performed by: .S. Asad Ali Gillani

Vision Engineering Services,
New Kot Juspat Shahdara Town Lahore

Client Reference No.: Nil

Dated: nil

SOM Lab Ref: CED/SOM/4017 (Page 1/1)

Dated: 11-03-2021

Test Type: Tensile Test

Sample Type: Nut - Bolts (20x80mm)

Test Specification: ASTM – F-606

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation
1	HS – Bolt(2) HTL (20 x 80mm)	13.8	113.0	755.49	20.0

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

Test Performed by: .S. Asad Ali Gillani

Vision Engineering Services,
New Kot Juspat Shahdara Town Lahore

Client Reference No.: Nil

Dated: nil

SOM Lab Ref: CED/SOM/4019 (Page 1/1)

Dated: 11-03-2021

Test Type: Tensile Test

Sample Type: Nut - Bolts (20x80mm)

Test Specification: ASTM – F-606

Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	% Elongation
1	HS – Bolt HT (20 x 80mm)	13.2	104.5	763.0	25.0

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