

Resident Engineer/Team Leader

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Prime Engineering Consultancy, Kallurkot Bidge Project

Client Reference: KK-DIK-BR-PJ/2021/235

Dated: 30-01-2021

SOM Lab Ref: CED/SOM/3757(Page-1/2)

Dated: 01-02-0221

Test: Tension Test & bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Pak 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	0.869	12	11.89	113	111	50.20	72.20	444	453	638	651	27.5	200	13.8	
2	0.868	12	11.86	113	111	50.00	72.20	442	453	638	654	30.0	200	15.0	
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
12mm	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

Resident Engineer/Team Leader

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Prime Engineering Consultancy, Kallurkot Bidge Project

Client Reference: KK-DIK-BR-PJ/2021/236

Dated: 30-01-2021

SOM Lab Ref: CED/SOM/3757(Page-2/2)

Dated: 01-02-0221

Test: Tension Test & bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar(Pak 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	0.874	12	11.89	113	111	50.50	72.70	447	455	643	655	30.0	200	15.0	
2	0.871	12	11.89	113	111	49.50	72.20	438	447	638	651	30.0	200	15.0	
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BEND TEST:

12mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
12mm	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

Anis Ahmed
Senior Engineer, Mansoor Mazhar & Associates, Lahore

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

Client Reference: MMA/PVV/PH/06

SOM Lab 3756(Page-

Ref: 1/1)

Dated: 24-11-2020

Dated: 01-02-2021

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	1.500	6	0.749	0.44	0.441	16.00	21.61	80220	80040	108320	108080	1.30	8.0	16.3	
2	1.500	6	0.749	0.44	0.441	15.90	21.51	79710	79530	107810	107570	1.30	8.0	16.3	
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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

Muhammad Saleem
GM, Professional Construction Services (Pvt) Ltd. Lahore

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

Client Reference: PCS/2021/Eng-16

SOM Lab 3758(Page-

Ref: 1/1)

Dated: 01-02-2021

Dated: 01-02-2021

Test: Tension 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	0.989	5	0.609	0.31	0.291	8.07	11.21	57440	61190	79780	84980	1.50	8.0	18.8	
2	1.001	5	0.612	0.31	0.294	8.38	11.42	59620	62860	81230	85650	1.40	8.0	17.5	
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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

Dr. Shahid Qari
Lahore

Test Performed By:

Dr. /Engr. S. Asad Ali Gillani

Client Reference: Nil

SOM Lab 3760(Page-

Ref: 1/1)

Dated: 01-02-2021

Dated: 01-02-2021

Test: Tension Test

Test Specification:

ASTM-A-615

Deformed Bar(Mughal Supreme Brand)

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	2.584	8	0.983	0.79	0.759	26.68	33.33	74480	77520	93060	96860	1.70	8.0	21.3	
2	1.512	6	0.752	0.44	0.444	15.24	19.62	76390	75700	98360	97470	1.30	8.0	16.3	
3	0.717	4	0.518	0.20	0.211	9.38	10.70	103420	98030	118030	111880	1.20	8.0	15.0	
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BEND TEST:

--	No Bend test performed	Note:- Only Three Samples Received and Tested

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

Engr. Khizar Rehman

Test Performed By:

Dr. /Engr.

S. Asad Ali Gillani

Resident Engineer, Grand City Kharian (Asian Consulting Engineers (Pvt) Ltd.)

Client Reference: AsCE/GCK/RE/21

SOM Lab

3761(Page-

Ref:

1/1)

Dated: 26-01-2021

Dated:

01-02-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge 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	0.661	4	0.497	0.20	0.194	6.60	8.84	72730	74980	97460	100470	1.00	8.0	12.5	
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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

Test Performed by: .S. Asad Ali Gillani

Zahid Iqbal
General Manager Production,
Associates Technologues (Pvt) Ltd. Lahore

Client Reference No.: ATL-021/01

Dated: 01-02-2021

SOM Lab Ref: CED/SOM/3759 (Page 1/1)

Dated: 03-02-2021

Test Type: Tensile Test

Sample Type: Nut - Bolts (16mm,Diameter)

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	Nut- Bolt - (16x60mm)	10.0	41.5	528.4	25.0
2	Nut- Bolt - (16x60mm)	10.0	42.5	541.1	25.0
3	Nut- Bolt - (16x60mm)	10.0	47.5	604.8	25.0
4	Nut- Bolt - (16x50mm)	10.0	50.0	638.8	60.0
5	Nut- Bolt - (16x50mm)	10.0	45.7	581.8	60.0
6	Nut- Bolt - (16x50mm)	10.0	43.2	550.0	40.0
7	Nut- Bolt - (16x45mm)	10.0	50.5	642.5	40.0
8	Nut- Bolt - (16x45mm)	10.0	45.0	572.9	40.0
9	Nut- Bolt - (16x45mm)	10.0	49.7	632.8	40.0

• Witnessed By:- Asif Hamid, QC. Incharge

Note: Please always confirm the results 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: 01-02-2021

SOM Lab Ref: CED/SOM/3765 (Page 1/2)

Dated: 01-02-2021

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	0.7	348.16	50.496

Note: Please always confirm the results 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: 01-02-2021

SOM Lab Ref: CED/SOM/3765 (Page 2/2)

Dated: 01-02-2021

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	0.7	348.16	50.496

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