

Abdul Hamid,ME

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

AL Jawahir Technical Pakistan.(New works For The Year 2022 In Abu Dhabi Palace At R.Y Khan)

Client Reference: Nil

SOM Lab Ref: 936 (Page-1/1)

Dated: 12-09-2022

Dated: 19-09-2022

Test: Tension Test

Test Specification: ASTM-A-615

Guage Length: 200 mm

Sample Type: MS Deformed Bar (Afco 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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.676	16	16.51	201	214	141.00	167.00	701	659	831	781	27.5	200	13.8	
2	1.584	16	16.03	201	202	119.20	145.70	593	591	725	722	27.5	200	13.8	
3	0.964	12	12.50	113	123	71.20	88.70	630	581	785	723	27.5	200	13.8	
4	0.974	12	12.57	113	124	69.50	91.70	615	561	812	740	25.0	200	12.5	
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BEND TEST:

16mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Test Performed by: Dr S. Asad Ali Gillani

Irfan Siddique

Building Standards Lahore.

(Riphah International Uni, Quaid-e-Azam Industrial Estate Campus, Lahore)

Client Reference No.: GT/LTR/220919-095

Dated: 19-09-2022

SOM Lab Ref: CED/SOM/937(Page- 1/1)

Dated: 19-09-2022

Test: Tensile Test

Sample Type: Nut Bolts (16mm Dia)

Tension Test Results

Sr. No.	Sample Type	Original Diameter of Bolt (mm)	Tested Diameter of Bolt (mm)	Ultimate Load (kN)	Ultimate Stress (MPa)	% Elongation
1	Nut Bolt (16mm Dia)	16	10	41.70	530.93	20.0

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

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

Kamran Tahir Sandhu

ME DHA Multan.(Electrical Infrastructure Development Sector V,T and N (M/S FESCON)

Client Reference: 701/92/Planning/DHA

Dated: 15-09-2022

SOM Lab Ref: CED/SOM/943(Page-1/3)

Dated: 19-09-2022

Test: Tension Test

Test Specification: ASTM-F -1554

Sample Type: Anchor- Bolt (Y-Shaped)

Gauge Length: 50 mm

S.No.	Diameter	Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Reduction of Area (%)
	mm	mm ²	kN	kN	MPa	MPa	mm	mm	%	
1	12 (L 250mm)	113.09	34.70	45.70	306.83	404.10	12.5	50	25.0	75.0
2	12 (L 250mm)	113.09	42.00	54.50	371.38	481.91	15.0	50	30.0	75.8
3	12 (L 250mm)	113.09	37.00	48.70	327.17	430.63	10.0	50	20.0	70.6

Note:-

Only Three Samples
Received and Tested

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

Irfan Siddique

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Building Standards Lahore.(Riphah International Uni, Quaid-e-Azam Industrial Estate Campus,Lhr)

Client Reference: GT/LTR/220919-095

Dated: 19-09-2022

SOM Lab Ref: CED/SOM/937(Page-1/1)

Dated: 19-09-2022

Test: Tension Test

Test Specification:

ASTM-F-1554

Sample Type:

J Bolt (20mm)

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	2.251	20	19.12	314	287	99.00	143.00	315	345	455	499	50.0	200	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

Muhammad Shaukat

Test Performed By:

Dr. /Engr.

Nauman Khurram

Manager Monitoring & Coordination, Shajar Roads Ltd.(Dualization Of Skp-Grw Road)

Client Reference: MMC/SRL/SGRP/201

Dated: 18-09-2022

SOM Lab Ref: CED/SOM/938(Page-1/4)

Dated: 19-09-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Amreli 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	0.887	12	12.00	113	113	61.50	68.20	544	545	603	604	30.0	200	15.0	
2	0.880	12	11.95	113	112	60.20	68.50	532	538	606	612	22.5	200	11.3	
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BEND TEST:

12mm	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 Shaukat

Test Performed By:

Dr. /Engr.

Nauman Khurra

Manager Monitoring & Coordination, Shajar Roads Ltd.(Dualization Of Skp-Grw Road)

Client Reference: MMC/SRL/SGRP/202

Dated: 18-09-2022

SOM Lab Ref: CED/SOM/938(Page-2/4)

Dated: 19-09-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Amreli Steel)

Gauge Length: 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation
		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	1.586	16	16.04	201	202	112.50	131.70	560	557	655	652	20.0	200	10.0
2	1.578	16	16.00	201	201	112.70	131.50	561	561	654	655	32.5	200	16.3
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BEND TEST:

16mm	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 Shaukat

Test Performed By:

Dr. /Engr.

Nauman Khurram

Manager Monitoring & Coordination, Shajar Roads Ltd.(Dualization Of Skp-Grw Road)

Client Reference: MMC/SRL/SGRP/203

Dated: 18-09-2022

SOM Lab Ref: CED/SOM/938(Page-3/4)

Dated: 19-09-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Amreli 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	2.462	20	20.00	314	314	180.70	216.20	575	576	688	689	25.0	200	12.5	
2	2.453	20	19.95	314	313	180.20	216.00	574	577	688	692	30.0	200	15.0	
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BEND TEST:

20mm	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 Shaukat

Test Performed By:

Dr. /Engr.

Nauman Khurram

Manager Monitoring & Coordination, Shajar Roads Ltd.(Dualization Of Skp-Grw Road)

Client Reference: MMC/SRL/SGRP/204

Dated: 18-09-2022

SOM Lab Ref: CED/SOM/938(Page-4/4)

Dated: 19-09-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Amreli 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	3.853	25	25.00	491	491	270.50	327.20	551	551	667	667	32.5	200	16.3	
2	3.850	25	24.99	491	490	274.00	345.70	558	559	704	705	30.0	200	15.0	
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BEND TEST:

25mm	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 Irfan
Project Engr. DHA Gujranwala.(Sector C)

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

Client Reference: 111/15/PE/RS/Pkg-2A/629

SOM Lab

Ref: 935 (Page-1/1)

Dated: 17-09-2022

Dated: 19-09-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (FF 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	2.682	8	1.002	0.79	0.788	22.45	33.05	62670	62830	92260	92500	1.60	8.0	20.0	
2	2.667	8	0.999	0.79	0.784	24.43	34.17	68220	68740	95390	96120	1.30	8.0	16.3	
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Witnessed By: Amir Shehzad L.T DHAG

BEND TEST:

# 8	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

Ashraf Ali, RE

Test Performed By: Dr. /Engr. Wasim Abbas

AZ Engg Associates Sargodha Residency.(Shahpur Bhera Malikwal Rd from Pull Wazidi To Shahpur)

Client Reference: RE/AZEA/SGD/129

SOM Lab

Ref: 939 (Page-1/1)

Dated: 31-08-2022

Dated: 19-09-2022

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	1.509	6	0.751	0.44	0.443	16.99	20.51	85180	84600	102800	102110	1.00	8.0	12.5	
2	1.508	6	0.751	0.44	0.443	14.29	19.42	71640	71150	97340	96680	1.30	8.0	16.3	
3	0.670	4	0.501	0.20	0.197	6.60	9.38	72730	73840	103420	104990	1.20	8.0	15.0	
4	0.670	4	0.501	0.20	0.197	5.37	8.05	59240	60140	88800	90160	1.20	8.0	15.0	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six 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

Rizwan
Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 940 (Page-1/1)

Dated: 19-09-2022

Dated: 19-09-2022

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	0.529	4	0.444	0.20	0.155	4.33	6.14	47780	61650	67670	87320	1.20	8.0	15.0	
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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

Engr. Bilal Yaqoob Virk

Test Performed By:

Dr. /Engr.

Nauman
Khurram

AEE-II CCD Pak PWD Guj.(Renov/Refurbishment/Up-Gradation Of Existing B/Wall of Land Of NHMP)

Client Reference: AEE-II/CCD/GAWork/NHMP/B-10/Lab/76

SOM Lab

Ref: 941 (Page-1/1)

Dated: 13-09-2022

Dated: 19-09-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar

ASTM-A-615

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	0.537	4	0.449	0.20	0.158	4.40	6.78	48560	61470	74750	94620	0.70	8.0	8.8	
2	0.504	4	0.434	0.20	0.148	4.49	6.88	49460	66840	75880	102540	0.50	8.0	6.3	
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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

Arif Siddique
Ideal Constructions Services Lahore.(FMH Tower Lahore)

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

Client Reference: ICS/786/446

SOM Lab

Ref: 942 (Page-1/1)

Dated: 19-09-2022

Dated: 19-09-2022

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	2.625	8	0.991	0.79	0.771	24.36	32.95	68020	69690	91980	94240	1.40	8.0	17.5	
2	2.632	8	0.992	0.79	0.773	24.36	34.73	68020	69510	96960	99090	1.30	8.0	16.3	
3	1.475	6	0.743	0.44	0.433	13.35	18.99	66940	68020	95190	96730	1.40	8.0	17.5	
4	1.478	6	0.743	0.44	0.434	13.35	19.01	66940	67860	95290	96610	1.50	8.0	18.8	
5	0.648	4	0.492	0.20	0.190	6.70	9.14	73850	77740	100830	106140	1.00	8.0	12.5	
6	0.658	4	0.496	0.20	0.193	7.70	9.79	84870	87950	107910	111830	1.00	8.0	12.5	
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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

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

Kamran Tahir Sandhu

ME DHA Multan.(Electrical Infrastructure Development Sector V,T and N (M/S FESCON)

Client Reference: 701/92/Planning/DHA

Dated: 15-09-2022

SOM Lab Ref: CED/SOM/943(Page-2/3)

Dated: 19-09-2022

Test: Tension Test

Test Specification: ASTM-F -1554

Sample Type: Anchor- Bolt (J-Shaped)

Gauge Length: 200 mm

S.No.	Diameter	Area	Yield Load	Ultimate Load	Yield Stress	Ultimate. Stress	Elongation	Gauge Length	%age Elongation	Reduction of Area (%)
	mm	mm ²	kN	kN	MPa	MPa	mm	mm	%	
1	25 (L 910mm)	490.87	182.0	277.5	370.77	565.32	50.0	200	25.0	36.63

2	25 (L 910mm)	490.87	187.7	275.7	382.38	561.65	50.0	200	25.0	45.24
3	25 (L 910mm)	490.87	199.0	296.2	405.40	603.41	45.0	200	22.5	38.53
							Note:-			
							Only Three Samples Received and Tested			
Note: Please always confirm the results of above report on web www.uet-civil.edu.pk										

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

Kamran Tahir Sandhu

ME DHA Multan.(Electrical Infrastructure Development Sector V,T and N (M/S FESCON)

Client Reference: 701/92/Planning/DHA

Dated: 15-09-2022

SOM Lab Ref: CED/SOM/943(Page-3/3)

Dated: 19-09-2022

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 140kgf Scale: B)

Test Results

Sample No.	Sample Type	Hardness
1	Nut (25mm) (J-Shaped Anchor- Bolt)	HR – 70.5 –B
2	Nut (25mm) (J-Shaped Anchor- Bolt)	HR – 86.16 –B
3	Nut (25mm) (J-Shaped Anchor- Bolt)	HR – 85.83 –B

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