Test Performed by: S. Asad Ali Gillani

ZES Zain Engineering Solutions
Lahore.
(Project: Military Engineer Services)

Client Reference No.: Nil Dated: 13-08-2024

SOM Lab Ref: CED/SOM/4640 (Page 1/4) Dated: 16-08-2024

Test Type: Tensile Test

Sample Type: Nut Bolts

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	Remarks
1	Nut Bolts (M16x50)	10.4	46.7	550	60	Samples Breaks at this Load

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

Test Performed by: S. Asad Ali Gillani

ZES Zain Engineering Solutions
Lahore.
(Project: Military Engineer Services)

Client Reference No.: Nil — Dated: 13-08-2024

SOM Lab Ref: CED/SOM/4640 (Page 2/4) — Dated: 16-08-2024

Test Type: Tensile Test

Sample Type: Nut Bolts

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	Remarks
1	Nut Bolts (M24x100)	16.1	195.5	960.8	40	Samples Breaks at this Load

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

Test Performed by: S. Asad Ali Gillani

ZES Zain Engineering Solutions
Lahore.
(Project: Military Engineer Services)

Client Reference No.: Nil Dated: 13-08-2024

SOM Lab Ref: CED/SOM/4640 (Page 3/4) Dated: 16-08-2024

Test Type: Tensile Test

Sample Type: Nut Bolts

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	Remarks
1	Nut Bolts (M20x100)	12.0	64.0	566.2	40	Samples Breaks at this Load

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

Test Performed by: S. Asad Ali Gillani

ZES Zain Engineering Solutions
Lahore.
(Project: Military Engineer Services)

Client Reference No.: Nil Dated: 13-08-2024

SOM Lab Ref: CED/SOM/4640 (Page 4/4) Dated: 16-08-2024

Test Type: Load Test
Sample Type: Steel Wire (Dia 10mm)

Load Test Results

s

Sr. No.	Weight Kg/m	Sample Type	Ultimate Load (kN)	Ultimate Load (Kg)
1	0.190	Steel Wire (10mm)	13.50	1376

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

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

PM DSG Energy Lahore.(Const Of Office Building at 29-M QIE,Lahore)

Client Reference: Nil **SOM Lab Ref:** 4636 (Page-1/1)

Dated: 16-08-2024 **Dated:** 16-08-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Hunza 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	2.678	8	1.001	0.79	0.787	25.20	33.94	70350	70620	94770	95130	1.40	8.0	17.5	
2	2.674	8	1.000	0.79	0.786	27.01	34.56	75420	75800	96470	96960	1.40	8.0	17.5	
3	1.479	6	0.744	0.44	0.435	13.30	18.30	66680	67450	91720	92770	1.50	8.0	18.8	
4	1.470	6	0.742	0.44	0.432	13.20	18.17	66170	67400	91050	92740	1.40	8.0	17.5	
5	0.671	4	0.501	0.20	0.197	6.03	8.05	66550	67560	88800	90160	1.10	8.0	13.8	
6	0.673	4	0.502	0.20	0.198	6.09	8.02	67110	67790	88470	89360	1.20	8.0	15.0	
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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
# 4	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

Metroplan-Asian JV **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Site Office JIC-JHL,Lahore.(Estb Of Jinnah Institute of Cardiology at Jinnah Hospital Lahore)

Client Reference: Metroplan-Asian JV ET-JHL-RE-233-2024 **SOM Lab Ref:** 4637 (Page-1/1)

Dated: 09-08-2024 **Dated:** 16-08-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Sheikhoo 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	1.477	6	0.743	0.44	0.434	14.90	19.13	74700	75740	95910	97230	1.10	8.0	13.8	
2	1.489	6	0.747	0.44	0.438	15.70	19.69	78690	79050	98720	99170	1.10	8.0	13.8	
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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

Engr. Haseeb Afzal
PM HMB Developers Pvt Ltd. Lahore

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

Client Reference: Nil
Dated: 16-08-2024

SOM Lab Ref: 4638 (Page-1/1)
Dated: 16-08-2024

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	0.663	4	0.498	0.20	0.195	7.46	8.69	82290	84390	95770	98230	1.00	8.0	12.5	
2	0.655	4	0.494	0.20	0.192	6.93	8.46	76440	79620	93300	97190	1.10	8.0	13.8	
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Witnessed By: Muhammad Azhar Saeed

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

Syed Mohsin Ali RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

QA/QC Deptt.Bahria Town Lhr.(Water Course Slab Blocl A Ext.Bahria Orchard Lahore)

Client Reference: QA/QC/Steel-3809 **SOM Lab Ref:** 4639 (Page-1/1)

Dated: 16-08-2024 **Dated:** 16-08-2024

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	0.674	4	0.502	0.20	0.198	6.68	8.99	73630	74370	99150	100150	1.30	8.0	16.3	
2	0.665	4	0.498	0.20	0.195	6.63	8.92	73070	74940	98360	100880	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

Waseem , Site Engr **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Jaffar Builders Dera Haji Allah Wasaya.(Coca Cola Sunder Green Lahore)

Client Reference: Nil **SOM Lab Ref:** 4641 (Page-1/1)

Dated: 16-08-2024 **Dated:** 16-08-2024

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	0.669	4	0.501	0.20	0.197	5.98	8.26	65990	66990	91050	92440	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

Wiqar Azeem Shams, AEE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Assistant GE (Army) Pattoki.(Const Of 8 x Sldr Flats Block No. 04 at Ammo Dep Pattoki)

Client Reference: 600-TR/40/E6 **SOM Lab Ref:** 4642 (Page-1/1)
Dated: 29-07-2024 **Dated:** 16-08-2024

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	2.651	8	0.996	0.79	0.779	25.48	36.09	71150	72150	100740	102160	1.50	8.0	18.8	
2	1.491	6	0.747	0.44	0.438	14.39	19.01	72150	72480	95290	95730	1.30	8.0	16.3	
3	1.042	5	0.624	0.31	0.306	10.30	13.43	73250	74210	95510	96760	1.50	8.0	18.8	
4	0.666	4	0.500	0.20	0.196	6.44	8.51	71040	72490	93860	95780	1.20	8.0	15.0	
5	0.673	4	0.502	0.20	0.198	4.66	6.47	51370	51890	71380	72100	1.50	8.0	18.8	
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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
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Ten Samples Received and Tested

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

M. Yasir Kiani, RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

JCP NESPAK. (Expension Of Joint Check Post Wahga, Lahore)

Client Reference: 4749/031/YK/01/34 **SOM Lab Ref:** 4643 (Page-1/2)

Dated: 09-08-2024 **Dated:** 16-08-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (SJ 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	2.669	8	0.999	0.79	0.784	33.54	40.37	93630	94340	112690	113560	1.20	8.0	15.0	
2	2.663	8	0.998	0.79	0.783	32.36	39.55	90360	91160	110420	111400	1.10	8.0	13.8	
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Witnessed By: Faisal Saddiq (Site Inspector, NESPAK)

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

M. Yasir Kiani, RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

JCP NESPAK. (Expension Of Joint Check Post Wahga, Lahore)

Client Reference: 4749/031/YK/01/36 **SOM Lab Ref:** 4643 (Page-2/2)

Dated: 12-08-2024 **Dated:** 16-08-2024

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (SJ 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	1.497	6	0.748	0.44	0.440	14.88	19.57	74600	74600	98100	98100	1.20	8.0	15.0	
2	1.483	6	0.745	0.44	0.436	14.90	19.57	74700	75390	98100	99000	1.30	8.0	16.3	
3	0.671	4	0.501	0.20	0.197	6.70	8.58	73850	74980	94650	96090	1.20	8.0	15.0	
4	0.671	4	0.501	0.20	0.197	7.97	9.91	87910	89240	109260	110930	1.20	8.0	15.0	
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Witnessed By: Faisal Saddiq (Site Inspector, NESPAK)

BEND TEST:

# 6	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

Sub Divisional officer,
BSD No.3 Lahore (Specialized Health Care & Medical Education Repartment Lahore)

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

Client Reference: 1106-08/III
Dated: 01-08-2024

SOM Lab Ref: 4644 (Page-1/1)
Dated: 16-08-2024

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	1.498	6	0.748	0.44	0.440	15.36	20.59	77000	77000	103210	103210	1.30	8.0	16.3	
2	1.492	6	0.747	0.44	0.438	15.14	20.00	75880	76220	100250	100710	1.20	8.0	15.0	
3	0.673	4	0.502	0.20	0.198	5.86	8.22	64640	65290	90600	91520	1.00	8.0	12.5	
4	0.670	4	0.501	0.20	0.197	6.54	8.82	72170	73270	97230	98720	1.10	8.0	13.8	
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BEND TEST:

# 6	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