

Test Performed by: S. Asad Ali Gillani

AF Steel Re Rolling Mills

Lahore.

Client Reference No.: AFS/SCT-Letter # 2809-1

Dated: 16-09-2024

SOM Lab Ref: CED/SOM/4820 (Page 1/3)

Dated: 18-09-2024

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 (M16x60)	9.8	64.7	858.2	20	Samples Breaks at this Load
2	Nut Bolts (M16x60)	9.0	54.2	852.4	15	Samples Breaks at this Load
3	U Bolt with Nut (1/2")	12.0	81.7	722.8	17.5	Samples Breaks at this Load
4	U Bolt with Nut (5/8")	16.0	122.5	609.6	17.5	Samples Breaks at this Load

Test Type: Tensile Test

Sample Type: Angle 2-1/2" x 2-1/2" x 3/16"

Tensile Test Results

Sr. No.	Size of Steel strip (mm)	X Section Area (mm ²)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	% Elongation
1	34.1 x 5.0	170.50	60.2	89.0	353.08	521.99	25.0

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

Test Performed by: S. Asad Ali Gillani

AF Steel Re Rolling Mills
Lahore.

Client Reference No.: AFS/SCT-Letter # 2809-1

Dated: 16-09-2024

SOM Lab Ref: CED/SOM/4820 (Page 2/2)

Dated: 18-09-2024

Sample Type: U Bolt & Nut Bolts

Test Type: Hardness Test

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 140.0 kgf Scale: C)

Hardness Test Results

Sample No.	Sample Type	Hardness avg
1	Bolts (M16x60)	HR – 26.33– C

Machine used: Avery Rockwell Hardness Testing Machine

(Minor Load: 10 Kgf Major Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness avg
7	U Bolt with Nut (1/2")	HR –86.7– B
8	U Bolt with Nut (5/8")	HR – 86.33– B

Test Performed by: S. Asad Ali Gillani

Muhammad Arfan Asif
Engineer`s Representative
Nespak Jv Turpkak
Lahore.

(Const Of Green Building For EMC,EPD and Allied ` New Entities Established under PGDP Lahore)

Client Reference No.: 4731/MAA/04/95

Dated: 16-09-2024

SOM Lab Ref: CED/SOM/4822 (Page 1/1)

Dated: 18-09-2024

Test Type: Tensile Test

Sample Type: GI Sheet

Gauge Length: 2 inches

Tensile Test Results

Sr. No.	Size of strip (mm)	X Section Area (mm ²)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	30.1 x 1.0	30.10	8.20	12.7	272.43	421.93	0.50	25.0

Dr.Adil Khan, RE
NesPak Lahore.(Infra Development at CBD Walton hase 2 & 3)

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

Client Reference: 4322/13/DAK/02/22
SOM Lab Ref: CED/SOM/4819 (Page-1/1)
Test: Tension Test & Bend Test
Sample Type: J-Bolt

Dated: 20-08-2024
Dated: 18-09-2024
Test Specification: ASTM-F 1554
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	4.041	25	25.61	398	515	314.00	404.20	790	610	1017	785	27.5	200	13.8	
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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 Zain-UI-Abadeen,
RE NESPAK.(RWMDA For Sore Point at Nishter Park Sports Complex,Lahore)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 3882/MZA/389

SOM Lab

Ref: 4813(Page-1/1)

Dated: 10-09-2024

Dated: 18-09-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Markhor 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	2.614	8	0.989	0.79	0.768	24.18	36.19	67500	69440	101030	103920	1.40	8.0	17.5	
2	2.618	8	0.990	0.79	0.769	24.43	36.41	68220	70080	101650	104430	1.40	8.0	17.5	
3	1.498	6	0.748	0.44	0.440	14.24	20.71	71380	71380	103830	103830	1.10	8.0	13.8	
4	1.494	6	0.748	0.44	0.439	14.02	20.64	70260	70420	103470	103700	1.40	8.0	17.5	
5	0.666	4	0.500	0.20	0.196	6.22	8.23	68570	69970	90720	92570	1.10	8.0	13.8	
6	0.668	4	0.500	0.20	0.196	5.68	8.66	62610	63890	95550	97500	1.20	8.0	15.0	
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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

Muhammad Zain-UI-Abadeen,
RE NESPAK.(RWMDA For Sore Point at Nishter Park Sports Complex,Lahore)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: 3882/MZA/388

SOM Lab

Ref: 4814(Page-1/1)

Dated: 10-09-2024

Dated: 18-09-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Batala 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	2.617	8	0.990	0.79	0.769	22.96	34.05	64090	65840	95050	97650	1.40	8.0	17.5	
2	2.641	8	0.994	0.79	0.776	22.29	33.38	62240	63360	93200	94880	1.50	8.0	18.8	
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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

Arsalan Khurshid

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Sufi Muhammad Haroon Haris Lahore.(The Const of Private House at Green For-1 Raiwind Rd,Lahore)

Client Reference: Green For-1/UET/Steel Test

SOM Lab

Ref: 4815 (Page-1/1)

Dated: 18-09-2024

Dated: 18-09-2024

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	2.570	8	0.980	0.79	0.755	24.72	32.44	69010	72210	90550	94750	1.50	8.0	18.8	
2	2.578	8	0.982	0.79	0.758	24.54	32.39	68500	71390	90410	94230	1.40	8.0	17.5	
3	1.498	6	0.748	0.44	0.440	14.48	19.01	72560	72560	95290	95290	1.50	8.0	18.8	
4	1.508	6	0.751	0.44	0.443	14.37	19.03	72050	71560	95400	94750	1.40	8.0	17.5	
5	0.590	4	0.469	0.20	0.173	5.50	7.72	60700	70180	85100	98380	1.30	8.0	16.3	
6	0.589	4	0.469	0.20	0.173	5.47	7.70	60370	69790	84870	98120	1.20	8.0	15.0	
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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

Brig Khadim Hussain ®

Test Performed By:

Dr. /Engr.

Nauman Khurram

Bismillah Developers, Bismillah Housing Socitey Phase I Lahore.(Masjid-E-Aqsa)

Client Reference: Nil

SOM Lab

Ref:

4816 (Page-1/1)

Dated: 18-09-2024

Dated:

18-09-2024

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	2.623	8	0.991	0.79	0.771	24.43	34.48	68220	69900	96250	98620	1.20	8.0	15.0	
2	1.490	6	0.747	0.44	0.438	14.17	18.91	71020	71350	94780	95220	1.40	8.0	17.5	
3	0.670	4	0.501	0.20	0.197	6.29	8.26	69360	70410	91050	92440	1.10	8.0	13.8	
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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	
# 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

Muhammad Mohsin

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

RE NESPAK Lhr.(Strom Water Drainage System From Sham Nagar to River Ravi, Pkg-II)

Client Reference: 3882/11/MM/1/397

SOM Lab

Ref: 4817 (Page-1/1)

Dated: 16-09-2024

Dated: 18-09-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Aziz 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	1.062	5	0.630	0.31	0.312	9.38	14.85	66720	66290	105670	104990	1.20	8.0	15.0	
2	1.055	5	0.628	0.31	0.310	9.43	14.88	67090	67090	105880	105880	1.30	8.0	16.3	
3	0.668	4	0.500	0.20	0.196	5.98	8.99	65990	67330	99150	101170	1.10	8.0	13.8	
4	0.673	4	0.502	0.20	0.198	5.68	8.97	62610	63250	98920	99920	1.20	8.0	15.0	
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BEND TEST:

# 5	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

Muhammad Atif Khalil
 PM Banu Mukhtar Contracting(Pvt.) Ltd.(Burj-1 By AJWA Builders)

Test Performed By: Dr. /Engr. Nauman Khurram

Client Reference: DOC-BMC/AJWA/144

SOM Lab

Ref: 4818 (Page-1/1)

Dated: 16-09-2024

Dated: 18-09-2024

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	1.486	6	0.746	0.44	0.437	14.27	18.91	71540	72030	94780	95430	1.30	8.0	16.3	
2	1.469	6	0.742	0.44	0.432	14.39	18.81	72150	73480	94270	96020	1.20	8.0	15.0	
3	0.667	4	0.500	0.20	0.196	6.19	8.43	68230	69630	92960	94860	1.20	8.0	15.0	
4	0.672	4	0.501	0.20	0.197	6.29	8.46	69360	70410	93300	94720	1.30	8.0	16.3	
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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

Safdar Rashid, RE

Test Performed By:

Dr. /Engr.

Nauman Khurram

NESPAK Narowal.(KBCMA College of Veterinary and Animal Science Narowal Campus)

Client Reference: 4650/311/SR/38

SOM Lab

Ref: 4821 (P-1/1)

Dated: 10-09-2024

Dated: 18-09-2024

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	1.479	6	0.744	0.44	0.435	13.73	18.71	68830	69620	93760	94840	1.40	8.0	17.5	
2	1.476	6	0.743	0.44	0.434	13.71	18.96	68730	69680	95040	96350	1.50	8.0	18.8	
3	0.665	4	0.498	0.20	0.195	6.75	8.63	74420	76320	95210	97650	1.00	8.0	12.5	
4	0.672	4	0.501	0.20	0.197	6.70	8.61	73850	74980	94990	96430	1.00	8.0	12.5	
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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

