

Test Performed by: Dr. S. Asad Ali Gillani

Muhammad Zain-Ul-Abadeen

Resident Engineer

NESPAK (Pvt) Ltd.

Lahore. (Sewerage System in UC-228, Nishter Zone,Lahore)

Client Reference No.:43101/MZA/01/1021

Dated: 03-01-2025

SOM Lab Ref: CED/SOM/556(Page-1/1)

Dated: 13-01-2025

Test: Tensile Test, Elongation at Break & Hardness Test

Sample Type: Rubber Ring

TENSILE STRENGTH AND ELONGATION TEST.

S. No	Measured Diameter of Ring (mm)	Tested Diameter of Ring (mm)	Ultimate Load (kN)	Tensile Strength (N/mm ²)	Elongation at Break(%)
1	14.9	6.1	0.15	5.13	220.0

- HARDNESS TEST

S. No	Sample Type	Hardness _{avg} (Shore A)
1	Rubber Ring	61.0

Test Performed by: Dr.S.Asad Ali Gillani

LEE KYUNG HO
Construction Supervisor/Deputy PM
SUNJIN Engineering & Architecture Co., Ltd.
Technology Park Development Project

Client Reference No.: PK-IT-SUN-C-28-OCT-001
2024

Dated: 28-10-

SOM Lab Ref: CED/SOM/559(Page 1/1)
2025

Dated: 13-01-

Test Type: Tensile Test

Sample Type: Rod Bar (Parapet Ring SS400)

Tensile Test Results

Sr. No.	Sample Type	Diameter of Bolt (mm)	Yield Load (kN)	Ultimate Load (kN)	Yield Stress (MPa)	Ultimate Tensile Stress (MPa)	% Elongation
1	Rod Bar (Parapet Ring SS400)	20.0	190.7	280.7	607	894	33.8

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machines
(Minor Load: 10 Kgf Major Load: 140.0 kgf Scale: C)

Hardness Test Results

Sample No.	Sample Type	Hardness avg
1	Rod Bar (Parapet Ring SS400)	HR – 27.5– C
2	Flat Plate (Parapet Ring SS400)	HR – 18.6- C

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

Engr. Farrukh Alvi

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Dy. General Manager Works.Habib Rafiq Engineering (Pvt.) Ltd.(101 Tower,Lahore)

Client Reference: HRLE/SKG/2025/Aziz/5.97/189-A(Re-Test)

SOM Lab Ref:

562 (P-1/1)

Dated: 13-01-2025

Dated:

13-01-2025

Test: Tension Test

Test Specification:

ASTM-A-615

Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	4.839	28	28.01	616	616	279.00	450.50	453	453	731	732	35.0	200	17.5	
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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

Test Performed by: Dr. Syed Asad Ali Gilani

Engr. Farrukh Alvi
Deputy General Manager (Works)
Habib Rafiq Engineering (Pvt) Ltd.Lahore
(101 Tower, Lahore)

Client Reference No.: HRLE/SKG/2025/SPT/191

Dated: 13-01-2025

SOM Lab Ref: CED/SOM/563 (P-1/1)

Dated: 13-01-2025

Test Type: Load Test/Slip Test

Sample Type: Strand Wire, Anchor Plates/Wedges (Dia 12.7mm)

Load Test:

S No	Weight (kg/m)	Sample Type	Ultimate Load (kN)	Remarks
1	0.832	Strand Wire,Anchor Plates/Wedges	183.0	Strand Wire breaks at this load

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

SUNSHINE HEALTH CARE
Lahore.(Project Sunshine Medical Tower Shahdra)

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

Client Reference: Nil

Dated: 10-01-2025

Test: Tension Test

Gauge Length: 8 inch

SOM Lab

Ref: 557 (Page-1/1)

Dated: 13-01-2025

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	1.487	6	0.746	0.44	0.437	18.42	21.92	92330	92960	109850	110610	1.20	8.0	15.0	
2	1.491	6	0.747	0.44	0.438	17.86	21.87	89520	89930	109600	110100	1.10	8.0	13.8	
3	0.669	4	0.501	0.20	0.197	7.29	8.38	80370	81600	92400	93810	1.10	8.0	13.8	
4	0.670	4	0.501	0.20	0.197	7.24	8.33	79810	81030	91840	93240	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

Rizwan Ahmad

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Lahore.(Commercial Plot Under construction in Park View City Lahore)

Client Reference: Nil

SOM Lab

Ref:

558 (Page-1/1)

Dated: Nil

Dated:

13-01-2025

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	1.479	6	0.744	0.44	0.435	14.53	19.47	72810	73650	97590	98710	1.60	8.0	20.0	
2	0.602	4	0.475	0.20	0.177	5.76	7.75	63510	71770	85430	96530	1.30	8.0	16.3	
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BEND TEST:

# 6	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

Sub Divisional officer,
 BSD Nankana Sahib.(Revamping of BHU Distt Nankana Sahib Phase-I)

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

Client Reference: 1142/SDO/BSD/NNS

SOM Lab

Ref: 560(Page-1/1)

Dated: 05-10-2024

Dated: 13-01-2025

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	1.501	6	0.749	0.44	0.441	17.18	21.46	86100	85900	107560	107310	1.10	8.0	13.8	
2	0.677	4	0.503	0.20	0.199	6.47	9.07	71380	71740	100050	100550	1.10	8.0	13.8	
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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

Waseem Abbas
Burewala.

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

Client Reference: Nil

SOM Lab

Ref: 561(Page-1/1)

Dated: Nil

Dated: 13-01-2025

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	1.477	6	0.743	0.44	0.434	15.01	19.06	75210	76250	95550	96870	1.40	8.0	17.5	
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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

Assistant Resident Engineer

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

MMP (Pvt) Ltd. Pkg # I PCP Jhelum.(Storm Water Drainage Facilities in Jhelum)

Client Reference: ARE/JHE-SWDF/MC-04

SOM Lab

Ref: 564 (Page-1/1)

Dated: 13-01-2025

Dated: 13-01-2025

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mehboob 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	0.653	4	0.494	0.20	0.192	5.32	7.90	58680	61120	87120	90750	1.20	8.0	15.0	
2	0.657	4	0.496	0.20	0.193	5.25	7.87	57890	59990	86780	89930	1.30	8.0	16.3	
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Witnessed By: Waqas (Site Inspector MM Pakistan Consultant)

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

Addul Qayyum Chaudhary

Test Performed By:

Dr. /Engr. Asad Ali Gillani

RE-Nespak Lahore.(Lahore Ring Road Project-Bridge-08 SL1 & 2)

Client Reference: 2636/103/AQC/SL/02/668

SOM Lab

Ref: 565 (Page-1/1)

Dated: 13-01-2025

Dated: 13-01-2025

Test: Tension Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Mughal 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	1.484	6	0.745	0.44	0.436	15.77	19.90	79050	79770	99740	100650	1.30	8.0	16.3	
2	1.486	6	0.746	0.44	0.437	15.24	19.62	76390	76910	98360	99030	1.30	8.0	16.3	
3	0.658	4	0.496	0.20	0.193	6.80	8.51	74980	77700	93860	97270	1.20	8.0	15.0	
4	0.652	4	0.494	0.20	0.192	6.75	8.53	74420	77520	94090	98010	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

Mr. Sulman

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

MM Blue Horizon Consultants Lhr.(4-Storey Commercial bldg Construction Valancia Society,Lhr)

Client Reference: 010

SOM Lab

Ref: 566 (Page-1/1)

Dated: 09-01-2025

Dated: 13-01-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Kamran 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	2.642	8	0.994	0.79	0.776	26.91	34.78	75130	76490	97100	98850	1.20	8.0	15.0	J-Block
2	2.619	8	0.990	0.79	0.770	27.12	35.14	75700	77670	98100	100640	1.40	8.0	17.5	J-Block
3	1.488	6	0.746	0.44	0.437	13.46	19.03	67450	67910	95400	96050	1.40	8.0	17.5	K-Block
4	1.501	6	0.749	0.44	0.441	13.25	19.01	66430	66280	95290	95080	1.10	8.0	13.8	K-Block
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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

Mr. Sulman

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

MM Blue Horizon Consultants Lhr.(4-Storey Commercial bldg Const. J-Block Valancia Society,Lhr)

Client Reference: 011

SOM Lab

Ref: 567 (Page-1/1)

Dated: 09-01-2025

Dated: 13-01-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Kamran 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	0.672	4	0.501	0.20	0.197	6.07	8.41	66890	67900	92740	94150	1.20	8.0	15.0	
2	0.663	4	0.498	0.20	0.195	6.07	8.26	66890	68600	91050	93390	1.30	8.0	16.3	
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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

Mr. Sulman

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

MM Blue Horizon Consultants Lhr.(4-Storey Commercial bldg Const. J-Block Valancia Society,Lhr)

Client Reference: 012

SOM Lab

Ref: 568 (Page-1/1)

Dated: 09-01-2025

Dated: 13-01-2025

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (5-Star 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	1.522	6	0.754	0.44	0.447	13.25	21.00	66430	65390	105260	103610	1.30	8.0	16.3	
2	1.510	6	0.752	0.44	0.444	13.17	21.00	66020	65420	105260	104310	1.40	8.0	17.5	
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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