

Test Performed By: S. Asad Ali Gillani

Muhammad Moeen-ud-Din
Chief Resident Engineer
UMDS Sahiwal.
(NCB Works / PICIIP-04 Road Upgradation Lot-01 Sahiwal)

Client Reference: UMDS-JV/SOS/CRE/357

Dated: 10-06-2024

SOM Laboratory Reference: CED/SOM/4354(Page-1/1)

Dated: 28-06-2024

Test: Compressive Strength Tests

Sample Type: Cat Eyes

Test Results

Sr. No.	Sample Type	Top Dimensions (mm)	Bottom Dimensions (mm)	Thickness (mm)	Inclination (Degree)	Compression Load (Kg)
1	Cat Eye (White)	77.4 x 35.2	100.2 x 100.1	19.2	26.53°	15596
2	Cat Eye (Yellow)	77.4 x 34.2	100.3 x 99.9	19.5	26.39°	17125
3	Cat Eye (Yellow)	77.4 x 34.2	100.2 x 99.9	19.6	26.53°	18756

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

Test Performed by: S. Asad Ali Gillani

Muhammad Ahsan Ali
Resident Engineer
NESPAK Lahore

(Infrastructure Development at Chahar Bagh Under Ravi River Front Urban Development Project)

Client Reference No.: 4559/13/MAA/09/386

Dated: 24-06-2024

SOM Lab Ref: CED/SOM/4357(Page 1/1)

Dated: 24-06-2024

Test Type: Tensile Test

Sample Type: 1-MS Pipe

Tensile Test Results

Sr. No.	Sample Type	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	MS Pipe	16.3 x 6.10	99.43	34.0	49.5	341.95	497.84	0.60	30.00

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

Muhammad Moeen-Ud-Din

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

CRE UMDS Sahiwal.(NCB Works/PICIIP-04 Road Upgradation Lot-01 Sahiwal)

Client Reference: UMDS-JV/SOS/CRE/356

Dated: 10-06-2024

SOM Lab Ref: CED/SOM/4355 (Page-1/1)

Dated: 28-06-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Hunza 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	0.895	12	12.05	113	114	51.70	73.50	457	454	650	645	35.0	200	17.5	
2	0.896	12	12.06	113	114	51.70	73.20	457	453	647	642	32.5	200	16.3	
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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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Bilal

Client Reference: Nil

SOM Lab

Ref: 4356 (Page-1/8)

Dated: 28-06-2024

Dated: 28-06-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Prime Steel Skp)

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	2.529	8	0.973	0.79	0.743	20.31	32.01	56690	60280	89360	95010	1.30	8.0	16.3	
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BEND TEST:

# 8	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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Bilal

Client Reference: Nil

SOM Lab

Ref: 4356 (Page-2/8)

Dated: 28-06-2024

Dated: 28-06-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Prime Steel Skp)

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	1.445	6	0.736	0.44	0.425	14.09	20.10	70620	73110	100760	104320	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

# 6	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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Bilal

Client Reference: Nil

SOM Lab

Ref: 4356 (Page-3/8)

Dated: 28-06-2024

Dated: 28-06-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Prime Steel Skp)

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	1.443	6	0.735	0.44	0.424	13.17	20.44	66020	68510	102450	106310	1.00	8.0	12.5	H # 2
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BEND TEST:

# 6	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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Bilal

Client Reference: Nil

Dated: 28-06-2024

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 4356 (Page-4/8)

Dated: 28-06-2024

Test Specification: ASTM-A-615

Sample Type: Deformed Bar (Prime Steel Skp)

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	1.432	6	0.732	0.44	0.421	12.25	19.49	61420	64190	97690	102100	1.00	8.0	12.5	H # 3
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BEND TEST:

# 6	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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Bilal

Client Reference: Nil

SOM Lab

Ref: 4356 (Page-5/8)

Dated: 28-06-2024

Dated: 28-06-2024

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Prime Steel Skp)

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	1.436	6	0.733	0.44	0.422	12.99	20.71	65100	67870	103830	108250	0.80	8.0	10.0	H # 4
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BEND TEST:

# 6	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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Bilal

Client Reference: Nil

SOM Lab

Ref: 4356 (Page-6/8)

Dated: 28-06-2024

Dated: 28-06-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Prime Steel Skp)

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	0.626	4	0.484	0.20	0.184	5.63	8.72	62050	67450	96110	104470	0.90	8.0	11.3	H # 1
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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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Bilal

Client Reference: Nil

SOM Lab

Ref: 4356 (Page-7/8)

Dated: 28-06-2024

Dated: 28-06-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Prime Steel Skp)

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	0.654	4	0.494	0.20	0.192	5.98	9.04	65990	68740	99710	103860	1.00	8.0	12.5	H # 2
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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

Prime Steel Re-Rolling Mills
Sheikhupura.

Test Performed By: Dr. /Engr. Bilal

Client Reference: Nil

SOM Lab

Ref: 4356 (Page-8/8)

Dated: 28-06-2024

Dated: 28-06-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Prime Steel Skp)

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	6.14	9.23	67670	70490	101730	105970	1.10	8.0	13.8	H # 3
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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

Professional Const.Services
Lahore.(Allied Bank Ltd. Link Road Model Town Lahore)

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

Client Reference: PCS/24/Eng-43-B

SOM Lab

Ref: 4359 (Page-1/3)

Dated: 28-06-2024

Dated: 28-06-2024

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	6.88	8.28	75880	77030	91280	92670	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

Professional Const.Services
Lahore.(Allied Bank Ltd. Link Road Model Town Lahore)

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

Client Reference: PCS/24/Eng-43-C

SOM Lab

Ref: 4359 (Page-2/3)

Dated: 28-06-2024

Dated: 28-06-2024

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	1.014	5	0.616	0.31	0.298	11.42	13.76	81230	84500	97910	101850	1.00	8.0	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

# 5	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

Professional Const.Services
Lahore.(Allied Bank Ltd. Link Road Model Town Lahore)

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

Client Reference: PCS/24/Eng-43-D

SOM Lab

Ref: 4359 (Page-3/3)

Dated: 28-06-2024

Dated: 28-06-2024

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	1.490	6	0.747	0.44	0.438	18.20	21.53	91210	91620	107910	108410	1.20	8.0	15.0	
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BEND TEST:

# 6	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

M. Tariq Shahzad

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Exec Dir-Projects, The Lake City Devlopers (Pvt) Ltd Lahore.

Client Reference: LCRG/Test/AI/012

SOM Lab

Ref:

4360 (Page-1/3)

Dated: 28-06-2024

Dated:

28-06-2024

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	0.664	4	0.498	0.20	0.195	5.37	7.34	59240	60760	80940	83010	1.50	8.0	18.8	AI
2	0.666	4	0.500	0.20	0.196	5.40	7.34	59580	60800	80940	82590	1.50	8.0	18.8	AI
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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

M. Tariq Shahzad

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Exec Dir-Projects, The Lake City Devlopers (Pvt) Ltd Lahore.

Client Reference: LCRG/Test/AI/013

SOM Lab

Ref:

4360 (Page-2/3)

Dated: 28-06-2024

Dated:

28-06-2024

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	1.482	6	0.745	0.44	0.436	14.54	18.83	72860	73530	94370	95240	1.60	8.0	20.0	AI
2	1.476	6	0.743	0.44	0.434	14.53	18.91	72810	73820	94780	96090	1.50	8.0	18.8	AI
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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

M. Tariq Shahzad

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Exec Dir-Projects, The Lake City Devlopers (Pvt) Ltd Lahore.

Client Reference: LCRG/Test/AI/014

SOM Lab

Ref: 4360 (Page-3/3)

Dated: 28-06-2024

Dated: 28-06-2024

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	2.688	8	1.003	0.79	0.790	24.62	32.54	68730	68730	90840	90840	1.70	8.0	21.3	AI
2	2.686	8	1.002	0.79	0.789	24.16	32.21	67450	67530	89930	90040	1.40	8.0	17.5	AI
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Junaid Ur Rehman, ARE

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

NESPAK-ACE JV PRSWSSP,Ahmedpur Sial.(PRSWSSP Pilot Phase Cluster South I Pkg I & 2)

Client Reference: PRSWSSP/ARE/APS/L/1228

SOM Lab

Ref: 4361 (Page-1/1)

Dated: 29-05-2024

Dated: 29-05-2024

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	2.655	8	0.997	0.79	0.780	23.60	37.69	65880	66730	105210	106560	1.40	8.0	17.5	
2	2.653	8	0.997	0.79	0.780	23.60	37.72	65880	66730	105300	106650	1.40	8.0	17.5	
3	1.487	6	0.746	0.44	0.437	14.63	22.27	73320	73830	111640	112410	1.20	8.0	15.0	
4	1.488	6	0.746	0.44	0.437	14.04	22.34	70360	70840	112000	112770	1.20	8.0	15.0	
5	0.672	4	0.501	0.20	0.197	5.86	9.12	64640	65620	100610	102140	1.10	8.0	13.8	
6	0.667	4	0.500	0.20	0.196	5.86	9.12	64640	65960	100610	102660	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