

Test Performed by: Dr. S. Asad Ali Gillani

Sub Divisional Officer,
Public Health Engg: Sub Division
Sargodha. (Phase-I & II)
(Repair/Replacement Of Main Sewer Line of 72” Under The Bed Of Lower Jhelum Canal, Sargodha)

Client Reference No.: 10/S Dated: 07-01-2025

SOM Lab Ref: CED/SOM/589 (Page-1/1) Dated: 16-01-2025

Test Type: Hardness Test

Hardness Test Details:

Machine used: Avery Rockwell Hardness Testing Machines
(Minor Load: 10 KgfMajor Load: 90.0 kgf Scale: B)

Hardness Test Results

Sample No.	Sample Type	Hardness avg
1	M.S Cassing Sheet	HR – 76.0– B

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

ZENITH Associates

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

Project Engro Enfra Share Site ID: 54006 (EN2-LWD-09399)

Client Reference: Zinat Associate/Steel/Engro Enfra Share/04

SOM Lab Ref: 592 (P-1/1)

Dated: 10-10-2024

Dated: 10-01-2025

Test: Tension Test

Test Specification: ASTM-A-615

Guage Length: 200 mm

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)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.577	16	16.00	201	201	127.20	143.20	633	633	712	713	25.0	200	12.5	
2	0.930	12	12.28	113	118	65.50	80.20	580	553	710	677	27.5	200	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

ZENITH Associates

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

Engro Enfra Share Site ID:NRO24_CB_266(EC2-KWL-09114),(NRO24-_CB_281(EC2-FSD-09432)

Client Reference: Zinat Associate/Steel/Engro Enfra Share/02

SOM Lab Ref: 593 (P-1/1)

Dated: 10-10-2024

Dated: 16-01-2025

Test: Tension Test

Test Specification: ASTM-A-615

Guage Length: 200 mm

Sample Type: Deformed Bar

[illegible]

BEND TEST:

--	No Bend test performed	Note:- Only Three Samples Received and Tested

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

Aftab Ahmad, CE

NESPAK Lahore.(Enhancement & Const of The Shrine Syed Ali Al-Hajveri(R.A) Lahore)

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Client Reference:

4580/13/AA/01/

Dated:

15-01-2025

Test:

Tension Test

Gauge Length:

8 inch

SOM Lab

Ref: 587 (Page-1/1)

Dated:

16-01-2025

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	3.391	9	1.127	1.00	0.997	28.78	46.48	63470	63660	102520	102830	1.50	8.0	18.8	Aziz
2	3.369	9	1.123	1.00	0.990	28.72	46.30	63330	63970	102110	103140	1.40	8.0	17.5	Aziz
3	2.662	8	0.998	0.79	0.782	32.01	39.86	89360	90270	111270	112410	1.40	8.0	17.5	Kisan
4	2.649	8	0.995	0.79	0.778	35.92	42.07	100290	101830	117450	119260	1.10	8.0	13.8	Kisan
5	1.484	6	0.745	0.44	0.436	16.04	20.46	80430	81160	102550	103490	1.00	8.0	12.5	Kisan
6	1.492	6	0.747	0.44	0.438	15.51	19.72	77770	78120	98870	99320	1.20	8.0	15.0	Kisan
7	1.050	5	0.627	0.31	0.309	10.19	13.81	72520	72760	98270	98590	1.30	8.0	16.3	Kisan
8	1.057	5	0.629	0.31	0.311	10.32	13.93	73390	73160	99140	98820	1.10	8.0	13.8	Kisan
9	0.583	4	0.467	0.20	0.171	6.22	8.18	68570	80200	90150	105440	1.10	8.0	13.8	Kisan
10	0.587	4	0.469	0.20	0.173	6.14	8.18	67670	78230	90150	104220	1.10	8.0	13.8	Kisan

BEND TEST:

# 9	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fifteen Samples Received and Tested
# 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	
Note: Please always confirm the results of above report on web www.uet-civil.edu.pk		

Allied Bank

Head Const. Site ABL-UML P-199&200.(Const Of ABL Upper Mall Lahore Plot No 199,200)

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Client Reference:

ABL-UML-AMC-QAQC-104

SOM Lab

Ref: 588 (Page-1/1)

Dated:

16-01-2025

Dated:

16-01-2025

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	2.655	8	0.997	0.79	0.780	27.27	36.34	76130	77100	101450	102750	1.40	8.0	17.5	
2	2.653	8	0.997	0.79	0.780	28.19	37.10	78690	79700	103590	104920	1.30	8.0	16.3	
3	1.521	6	0.754	0.44	0.447	15.24	20.36	76390	75190	102040	100440	1.00	8.0	12.5	
4	1.513	6	0.753	0.44	0.445	15.19	20.44	76130	75280	102450	101300	1.30	8.0	16.3	
5	1.025	5	0.619	0.31	0.301	9.76	13.46	69410	71480	95730	98590	1.40	8.0	17.5	
6	1.034	5	0.622	0.31	0.304	9.94	13.71	70710	72110	97540	99470	1.30	8.0	16.3	
7	0.662	4	0.498	0.20	0.195	6.57	8.94	72510	74360	98580	101110	1.10	8.0	13.8	
8	0.660	4	0.497	0.20	0.194	6.52	8.92	71940	74170	98360	101400	1.00	8.0	12.5	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 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	
Note: Please always confirm the results of above report on web www.uet-civil.edu.pk		

Asstt Director (QCD)
WASA,LDA,Lhr.(M/S. Wagha RCC Pipe Factory)

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

Client Reference: QCD/253
Dated: 15-01-2025
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 590 (Page-1/1)
Dated: 16-01-2025
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	0.658	4	0.496	0.20	0.193	6.44	8.41	71040	73620	92740	96100	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		

M.Waseem Azhar
Asstt Director (QCD) WASA,LDA,Lhr.(M/S. Shezone Pipe Industry)

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

SOM Lab
Ref: 591 (Page-1/1)
Dated: 16-01-2025

Client Reference: QCD/249
Dated: 15-01-2025

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	0.668	4	0.500	0.20	0.196	7.29	9.63	80370	82010	106230	108400	1.10	8.0	13.8	
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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		

Junaid Ahmad, PE

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

Nespak Lahore.(Const Of Test Beds and Workshop Building For Al-Ghazi Tractors Ltd Skp Rd Lhr)

Client Reference: 4829/311/JA/01/23781

SOM Lab

Dated: 16-01-2025

Ref: 595 (Page-1/1)

Dated: 16-01-2025

Test: Tension Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Mughal Supreme)

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	15.29	19.32	76640	77350	96830	97710	1.50	8.0	18.8	
2	1.488	6	0.746	0.44	0.437	15.34	19.32	76900	77430	96830	97490	1.40	8.0	17.5	
3	0.665	4	0.498	0.20	0.195	6.83	8.79	75320	77250	96900	99380	1.20	8.0	15.0	
4	0.663	4	0.498	0.20	0.195	7.05	9.09	77790	79780	100270	102840	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		