Test Performed by: S. Asad Ali Gillani

Fasih Ullah
The Engineer/Resident Engineer
WSS Kohat.
(Khyber Pakhtunkhwa Cities Improvement Ptoject PCB-KPCIP-CW-02: Procurement of Works For Improvement /Const of Water Supply System: Lot-3)

Client Reference No.: KPCIP/PMCSC/CW-02/LOT-03/242 Dated: 29-02-2024

SOM Lab Ref: CED/SOM/4055 (Page 1/3) Dated: 03-05-2024

Test Type: Tensile Test & Bend Test **Specification:** ASTM A 53/A 53M-01

Sample Type: MS Heavy GI Pipe (Jamal Brand) **Gauge Length:** 2 inches

Tensile & Bend 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	GI Pipe (Dia 8”)	29.0 x 8.00	232.00	84.00	105.50	362.07	454.74	0.60	30.00
2	GI Pipe (Dia 8”)	29.0 x 8.00	232.00	84.50	107.00	364.22	461.21	0.60	30.00
3	GI Pipe (Dia 6”)	29.9 x 7.35	219.77	81.00	103.00	368.58	468.68	0.60	30.00
4	GI Pipe (Dia 6”)	29.6 x 7.35	217.56	79.00	102.90	363.12	472.97	0.60	30.00
5	GI Pipe (Dia 4”)	27.6 x 6.40	176.64	65.00	81.20	367.98	459.69	0.60	30.00
6	GI Pipe (Dia 4”)	27.9 x 6.40	178.56	66.00	80.50	369.62	450.83	0.60	30.00
7	GI Pipe (Dia 8”) strip sample Bend through 180 degrees satisfactorily without any crack								
8	GI Pipe (Dia 6”) strip sample Bend through 180 degrees satisfactorily without any crack								
9	GI Pipe (Dia 4”) strip sample Bend through 180 degrees satisfactorily without any crack								

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

Test Performed by: S. Asad Ali Gillani

Fasih Ullah
The Engineer/Resident Engineer
WSS Kohat.
(Khyber Pakhtunkhwa Cities Improvement Ptoject PCB-KPCIP-CW-02: Procurement of Works For Improvement /Const of Water Supply System: Lot-3)

Client Reference No.: KPCIP/PMCSC/CW-02/LOT-03/242 Dated: 29-02-2024

SOM Lab Ref: CED/SOM/4055 (Page 2/3) Dated: 03-05-2024

Test Type: Dimension Test

Dimension Test Results

Sr. No.	Sample Type	External Dia (mm)	Internal Dia (mm)	Wall Thickness (mm)
1	GI Pipe (Dia 8”)	220.0	204.0	8.0
2	GI Pipe (Dia 6”)	168.0	153.3	7.35
3	GI Pipe (Dia 4”)	115.0	102.2	6.40

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

Test Performed by: S. Asad Ali Gillani

Fasih Ullah
The Engineer/Resident Engineer
WSS Kohat.
(Khyber Pakhtunkhwa Cities Improvement Ptoject PCB-KPCIP-CW-02: Procurement of Works For Improvement /Const of Water Supply System: Lot-3)

Client Reference No.: KPCIP/PMCSC/CW-02/LOT-03/242 Dated: 29-02-2024

SOM Lab Ref: CED/SOM/4055 (Page 3/3) Dated: 03-05-2024

Test Type: Flattening Test **Specification:** ASTM A 53/A 53M-01

Flattening Test Results

Sr. No.	Sample Type	Test Type	Observation/Results
1	GI Pipe (Dia 8”)	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
2	GI Pipe (Dia 6”)	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed
3	GI Pipe (Dia 4”)	Ductility	No crack was observed
		Soundness	No evidence of lamination noticed

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

M.Arslan Khaleel

Amanah Noor Residence Model Town, Lahore.

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

Client Reference: Nil

Dated: 03-05-2024

SOM Lab Ref: 4052 (Page-1/1)

Dated: 03-05-2024

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	0.671	4	0.501	0.20	0.197	6.93	8.82	76440	77600	97230	98720	1.30	8.0	16.3	
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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

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

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

Client Reference: Metroplan-Asian JV ET-JHL-RE-190-2024 **SOM Lab Ref:** 4053(Page-1/1)

Dated: 03-05-2024 **Dated:** 03-05-2024

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 Deformed Bar (Pak Steel)

Gauge Length: 8 inch **Sample Type:**

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	1.534	6	0.758	0.44	0.451	14.24	18.35	71380	69640	91970	89730	1.50	8.0	18.8	
2	1.519	6	0.754	0.44	0.446	13.66	17.89	68470	67550	89670	88470	1.30	8.0	16.3	
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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.Anis Ahmad **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Mansoor Mazhar & Associates.(Const Of Tanveer Ahmad Residence,243 Sec-D DHA Ph-VIII)

Client Reference: MMA/TAH/PVIII/002 **SOM Lab Ref:** 4054 (Page-1/1)

Dated: 03-05-2024 **Dated:** 03-05-2024

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	2.659	8	0.997	0.79	0.781	23.24	34.63	64890	65630	96670	97790	1.30	8.0	16.3	
2	2.666	8	0.998	0.79	0.783	23.41	34.76	65370	65950	97040	97910	1.50	8.0	18.8	
3	1.446	6	0.736	0.44	0.425	15.34	20.51	76900	79610	102800	106430	1.30	8.0	16.3	
4	1.449	6	0.736	0.44	0.426	15.39	20.54	77160	79690	102960	106340	1.30	8.0	16.3	
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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

Note:-

Only Six Samples Received and Tested

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

Engineer Muhammad Irfan
Dy Dir Infra. DHA Gujranwala.(Sector K)

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

Client Reference: 111/15/AD/RS/Lab/Sec-K/624
Dated: 30-04-2024

SOM Lab Ref: 4056 (Page-1/1)
Dated: 03-05-2024

Test: Tension Test Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Plain Bar (Iron Rungs)

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	2.763	8	1.017	0.79	0.812	17.74	26.37	49520	48180	73620	71630	1.30	8.0	16.3	
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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