

Test Performed by: .Dr Asad Ali Gillani

Farooq Azam

Senior Resident Engineer

BSM Developers. (Development of New Metro City Gujar Khan Rawalpindi)

Client Reference No.: NMC/GK/210/2024

Dated: 04-03-2024

SOM Lab Ref: CED/SOM/3790(Page 1/1)

Dated: 12-03-2024

Test Type: Tensile Test

Sample Type: Galvanized Iron Pipe (Dia 20mm)

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 (kN)	Ultimate Tensile Stress (MPa)	Elongation (inch)	% Elongation
1	23.7 x 2.5	59.25	22.0	30.0	371.31	506.33	0.25	12.5
2	24.2 x 2.5	60.50	22.7	30.2	375.21	499.17	0.30	15.0

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Engr. Hamza

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

Site Engineer Architects InDesign.(Commercial Building Plan Plot No.07 Block Q Gulberg-II Lahore)

Client Reference: Nil

SOM Lab

Ref: 3789 (Page-1/1)

Dated: 04-03-2024

Dated: 12-03-2024

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	2.631	8	0.992	0.79	0.773	27.29	38.50	76180	77860	107490	109850	1.50	8.0	18.8	
2	2.648	8	0.995	0.79	0.778	27.59	38.60	77040	78230	107770	109430	1.20	8.0	15.0	
3	1.663	6	0.789	0.44	0.489	18.35	22.32	91970	82760	111900	100690	1.40	8.0	17.5	
4	1.701	6	0.798	0.44	0.500	19.47	24.31	97590	85880	121860	107240	1.30	8.0	16.3	
5	0.654	4	0.494	0.20	0.192	6.52	8.61	71940	74940	94990	98940	1.40	8.0	17.5	
6	0.611	4	0.479	0.20	0.180	5.71	7.77	62950	69950	85660	95170	1.30	8.0	16.3	
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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 Asif Bajwa,RE

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

NESPAK Nankana Sahib.(Rehb/ReConst. Of Nankana To Shah Kot Road)

Client Reference: 3811/103/ADPNS/AB/178

SOM Lab

Ref:

3791 (Page-1/1)

Dated: 06-03-2024

Dated:

12-03-2024

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	0.666	4	0.500	0.20	0.196	6.34	8.33	69920	71350	91840	93710	1.30	8.0	16.3	
2	0.667	4	0.500	0.20	0.196	6.32	8.33	69700	71120	91840	93710	1.20	8.0	15.0	
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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

Engr.Zahid Aziz,ME

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

Nespak QABP,SKP.(Infrastructure Devl.Of Quaid-E-Azam Business Park On Motorway M-2)

Client Reference: 4163/11/ZA/01/18

SOM Lab

Ref: 3792 (Page-1/1)

Dated: 06-03-2024

Dated: 12-03-2024

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	0.670	4	0.501	0.20	0.197	5.52	8.18	60930	61860	90150	91530	1.10	8.0	13.8	
2	0.673	4	0.502	0.20	0.198	5.61	8.26	61830	62450	91050	91970	1.20	8.0	15.0	
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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

Engineer Muhammad Irfan
 Dy Dir Infra. DHA Gujranwala.(Boundary Wall ,Sector C)

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

Client Reference: 111/15/DD/RS/Lab/BW/Pkg-2A/228

SOM Lab

Ref: 3793 (Page-1/1)

Dated: 11-03-2024

Dated: 12-03-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (FF Steel)

ASTM-A-615

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	0.667	4	0.500	0.20	0.196	6.83	9.04	75320	76850	99710	101740	1.10	8.0	13.8	
2	0.676	4	0.503	0.20	0.199	6.95	9.25	76660	77050	101960	102470	1.20	8.0	15.0	
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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

Muhammad Rafique,GM

Test Performed By: Dr. /Engr. Nauman Khurram

NETRACON Tech.(Design Supply,Installation,Testing and Commoissioning of 220kV D/C T/B OHTL)

Client Reference: NTT-HO/ADB301C-R/SI-020

SOM Lab

Ref: 3795 (Page-1/1)

Dated: 12-03-2024

Dated: 12-03-2024

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (SJ 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	3.424	9	1.132	1.00	1.006	31.86	42.73	70260	69840	94240	93680	1.50	8.0	18.8	
2	3.457	9	1.137	1.00	1.016	32.21	42.97	71040	69930	94760	93270	1.50	8.0	18.8	
3	3.434	9	1.133	1.00	1.009	33.35	43.63	73560	72910	96220	95370	1.50	8.0	18.8	
4	3.401	9	1.128	1.00	0.999	32.72	43.12	72170	72240	95100	95190	1.50	8.0	18.8	
5	2.687	8	1.003	0.79	0.790	26.57	32.49	74190	74190	90700	90700	1.40	8.0	17.5	
6	2.678	8	1.001	0.79	0.787	26.35	32.44	73570	73850	90550	90900	1.20	8.0	15.0	
7	1.460	6	0.739	0.44	0.429	13.99	18.09	70100	71900	90690	93020	1.50	8.0	18.8	
8	1.461	6	0.739	0.44	0.429	14.14	18.25	70870	72690	91460	93810	1.30	8.0	16.3	
9	1.459	6	0.739	0.44	0.429	14.44	18.60	72400	74260	93250	95640	1.50	8.0	18.8	
10	1.472	6	0.743	0.44	0.433	14.19	18.32	71130	72280	91820	93300	1.40	8.0	17.5	

Witnessed By: Sohaib Ali (NESPAK,Sub Engineer)

BEND TEST:

# 9	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Fifteen Samples Received and Tested
# 9	Sample bend through 180 degrees Satisfactorily without any crack	
# 8	Sample bend through 180 degrees Satisfactorily without any crack	
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 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

Premier Builders

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

Procurement Manager .(Lyallpur Galleria-3 Near Nally Wala Pull Canal Road,FSD)

Client Reference: LG-3/005

SOM Lab

Ref: 3796 (Page-1/1)

Dated: 11-03-2024

Dated: 12-03-2024

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	2.582	8	0.983	0.79	0.759	24.64	33.71	68790	71590	94110	97960	1.60	8.0	20.0	
2	1.442	6	0.735	0.44	0.424	14.09	19.32	70620	73280	96830	100480	1.10	8.0	13.8	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four 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