

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

Assistant Project Director, PMU-SBP Gujranwala

Client Reference: APD/PMU/SBP/GRW/20/353

SOM Lab 4303(Page-

Ref: 1/1)

Dated: 26-05-2021

Dated: 05-05-2021

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	2.658	8	0.997	0.79	0.781	25.23	33.38	70440	71250	93200	94280	1.50	8.0	18.8	
2	2.660	8	0.998	0.79	0.782	25.43	33.69	71000	71730	94050	95020	1.50	8.0	18.8	
3	1.499	6	0.749	0.44	0.441	14.73	20.82	73830	73670	104340	104100	1.20	8.0	15.0	
4	1.501	6	0.749	0.44	0.441	14.83	20.92	74350	74180	104850	104610	1.10	8.0	13.8	
5	0.663	4	0.498	0.20	0.195	6.65	8.92	73290	75170	98360	100880	1.10	8.0	13.8	
6	0.665	4	0.498	0.20	0.195	6.63	8.84	73070	74940	97460	99960	1.00	8.0	12.5	
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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 Aftab

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Project Coordinator, Banu Mukhtar Contracting (Pvt) Ltd., (Project: Ultra Kraft (Pvt) Ltd.

Client Reference: BML/UltraK/01

SOM Lab

4304(Page-

Ref:

1/1)

Dated: 03-05-2021

Dated:

05-05-2021

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	2.619	8	0.990	0.79	0.770	21.48	31.72	59960	61520	88560	90860	1.40	8.0	17.5	
2	2.602	8	0.987	0.79	0.765	21.19	31.45	59170	61100	87790	90660	1.40	8.0	17.5	
3	1.476	6	0.743	0.44	0.434	13.30	17.74	66680	67600	88910	90140	1.20	8.0	15.0	
4	1.469	6	0.742	0.44	0.432	13.40	17.71	67190	68440	88750	90400	1.30	8.0	16.3	
5	0.654	4	0.494	0.20	0.192	6.60	8.46	72730	75760	93300	97190	1.10	8.0	13.8	
6	0.649	4	0.493	0.20	0.191	6.44	8.31	71040	74390	91610	95930	1.10	8.0	13.8	
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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

Mughal Iron & Steel Industries Ltd.
31-A, Shadman - 1, Lahore (Client: CDS Navy Omara)

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

Client Reference: nil

SOM Lab Ref: 4305(Page-1/1)

Dated: 03-05-2021

Dated: 05-05-2021

Test: Tension Test & bend Test

Test Specification: ASTM- A-615

Guage 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	1.488	6	0.746	0.44	0.437	14.06	19.13	70460	70950	95910	96560	1.10	8.0	13.8	
2	1.491	6	0.747	0.44	0.438	13.78	19.16	69080	69400	96060	96500	1.20	8.0	15.0	
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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

Mughal Iron & Steel Industries Ltd.
31-A, Shadman - 1, Lahore (Client: CDS Navy Karachi)

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

Client Reference: nil

SOM Lab 4305(Page-

Ref: 2/2)

Dated: 03-05-2021

Dated: 05-05-2021

Test: Tension Test & bend Test

Test Specification: ASTM- A-615

Guage 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	2.666	8	0.998	0.79	0.783	25.69	36.34	71720	72360	101450	102360	1.30	8.0	16.3	
2	2.656	8	0.997	0.79	0.781	25.08	34.71	70010	70820	96900	98020	1.40	8.0	17.5	
3	1.500	6	0.749	0.44	0.441	13.76	19.11	68980	68820	95800	95590	1.20	8.0	15.0	
4	1.502	6	0.749	0.44	0.441	14.58	19.72	73070	72900	98870	98650	1.20	8.0	15.0	
5	0.666	4	0.500	0.20	0.196	6.82	8.87	75200	76740	97800	99790	1.00	8.0	12.5	
6	0.665	4	0.498	0.20	0.195	6.78	8.84	74750	76670	97460	99960	0.90	8.0	11.3	
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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