

Muhammad Nadeem Bhatti

Test Performed By:

Dr. /Engr.

S.Asad Ali Gillani

MP Projex(Engro Enfrashare)ID:EC1-SHW-06257,EC1-PPT-04991,EC1-LHR-05435,EC1-SKT-06526)

Client Reference: PCPi/Eng-06-B

Dated: 20-05-2022

SOM Lab Ref: CED/SOM/374(Page-1/1)

Dated: 25-05-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: M S Deformed Bar

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	2.539	20	20.28	314	323	167.20	216.50	532	518	689	671	30.0	200	15.0	
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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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/0191
Dated: 23-05-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 372 (Page-1/3)
Dated: 25-05-2022
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	0.660	4	0.497	0.20	0.194	6.09	8.23	67110	69190	90720	93520	1.20	8.0	15.0	
2	0.649	4	0.493	0.20	0.191	5.93	8.66	65420	68510	95550	100050	1.20	8.0	15.0	
3	0.648	4	0.492	0.20	0.190	6.01	8.82	66320	69810	97230	102350	1.10	8.0	13.8	
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Witnessed By: Engr.Rafi Ullah (IHPL) & Ali Hussnain Khan (K.B)

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five 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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/0193
Dated: 23-05-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 372 (Page-2/3)
Dated: 25-05-2022
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	1.474	6	0.743	0.44	0.433	12.30	18.83	61670	62670	94370	95900	1.20	8.0	15.0	
2	1.498	6	0.748	0.44	0.440	14.98	20.20	75110	75110	101270	101270	1.10	8.0	13.8	
3	1.505	6	0.750	0.44	0.442	14.83	19.80	74350	74010	99230	98780	1.10	8.0	13.8	
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Witnessed By: Engr.Rafi Ullah (IHPL) & Ali Hussnain Khan (K.B)

BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five 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

Muhammad Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/0192
Dated: 23-05-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 372 (Page-3/3)
Dated: 25-05-2022
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	2.632	8	0.992	0.79	0.773	22.57	34.51	63010	64390	96330	98450	1.20	8.0	15.0	
2	2.633	8	0.993	0.79	0.774	24.72	36.41	69010	70440	101650	103750	1.30	8.0	16.3	
3	2.641	8	0.994	0.79	0.776	24.97	36.56	69720	70980	102080	103920	1.30	8.0	16.3	
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Witnessed By: Engr.Rafi Ullah (IHPL) & Ali Hussnain Khan (K.B)

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five Samples Received and Tested
# 8	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 Shahbaz
Imperium Hospitality (Pvt) Ltd. Lahore.

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

Client Reference: IHPL/Steel/0190
Dated: 23-05-2022
Test: Tension Test & Bend Test
Gauge Length: 8 inch

SOM Lab
Ref: 373 (Page-1/1)
Dated: 25-05-2022
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	0.671	4	0.501	0.20	0.197	6.27	8.92	69130	70190	98360	99860	1.20	8.0	15.0	
2	0.657	4	0.496	0.20	0.193	6.32	8.48	69700	72220	93530	96920	1.10	8.0	13.8	
3	0.653	4	0.494	0.20	0.192	6.29	8.92	69360	72250	98360	102460	1.10	8.0	13.8	
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Witnessed By: Engr.Rafi Ullah (IHPL) & Ali Hussnain Khan (K.B)

BEND TEST:

# 4	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Five 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

Malik Muhammad Ijaz
Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 375 (Page-1/1)

Dated: 25-05-2022

Dated: 25-05-2022

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	2.669	8	0.999	0.79	0.784	26.27	33.51	73340	73900	93540	94260	1.40	8.0	17.5	
2	2.688	8	1.003	0.79	0.790	25.94	33.69	72430	72430	94050	94050	1.50	8.0	18.8	
3	1.498	6	0.748	0.44	0.440	12.18	16.77	61060	61060	84050	84050	1.60	8.0	20.0	
4	1.508	6	0.751	0.44	0.443	14.02	18.17	70260	69780	91050	90440	1.50	8.0	18.8	
5	0.604	4	0.476	0.20	0.178	6.39	7.85	70480	79190	86560	97250	1.10	8.0	13.8	
6	0.602	4	0.475	0.20	0.177	6.42	7.90	70820	80020	87120	98440	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

M.Nadeem Zafar Ullah

Test Performed By:

Dr. /Engr.

Wasim Abbas

Incharge (Civil),SNGPL.(Const Of Domestic Meter Inspection Shop At Multan)

Client Reference: CC/DMIS/MLN

SOM Lab

Ref:

376 (Page-1/1)

Dated: 24-05-2022

Dated:

25-05-2022

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	0.663	4	0.498	0.20	0.195	6.03	9.60	66550	68250	105890	108610	1.20	8.0	15.0	
2	0.662	4	0.498	0.20	0.195	6.24	9.40	68800	70560	103640	106300	1.10	8.0	13.8	
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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