

Muhammad Nadeem Bhatti,MP

Test Performed By:

Dr. /Engr.

Irfan UI Hasan

Projex(Engro Enfrashare)ID:ES2-HLA-05415,ES2-MPK-06087,EN2-HNG-06174,EN2-BNU-06718)

Client Reference: PCP/Eng-06

Dated: 10-06-2022

SOM Lab Ref: CED/SOM/735(Page-1/1)

Dated: 12-08-2022

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.332	20	19.45	314	297	139.00	196.70	442	469	626	663	32.5	200	16.3	
2	1.623	16	16.23	201	207	109.00	140.00	542	528	696	678	35.0	200	17.5	
3	0.992	12	12.68	113	126	72.00	91.20	637	570	806	722	27.5	200	13.8	
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**BEND TEST:**

--	No Bend test performed	<b>Note:-</b>  Only Three Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Altaf Hussain

**Test Performed By:**

Dr. /Engr.

Irfan UI Hasan

M.E AS Enterprises (Project: Style Textile Manga,Knitting Building 3,Acro Store)

**Client Reference:** STR/ASE/02

**Dated:** 12-08-2022

**SOM Lab Ref:** CED/SOM/736(Page-1/1)

**Dated:** 12-08-2022

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** MS 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.920	25	25.21	491	499	248.50	319.00	506	498	650	640	37.5	200	18.8	
2	3.934	25	25.26	491	501	257.50	328.70	525	514	670	656	35.0	200	17.5	
3	1.564	16	15.93	201	199	108.20	135.00	538	543	671	678	30.0	200	15.0	
4	1.554	16	15.88	201	198	107.70	136.70	536	545	680	691	27.5	200	13.8	
5	0.872	12	11.89	113	111	67.20	79.70	594	606	705	718	25.0	200	12.5	
6	0.886	12	11.99	113	113	69.50	81.70	615	616	722	724	25.0	200	12.5	
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**BEND TEST:**

25mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
16mm	Sample bend through 180 degrees Satisfactorily without any crack	
12mm	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](http://www.uet-civil.edu.pk)

Mazhar ahmad Saeed

Test Performed By: Dr. /Engr. Irfan UI Hasan

RE Kachhi Canal Rem.Works Consults-(KC-06B(2R)Const. Of Main Canal And Distribution System)

Client Reference: KCB/RE-6B(2R)/43

SOM Lab

Ref: 732 (Page-1/1)

Dated: 11-08-2022

Dated: 12-08-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.624	8	0.991	0.79	0.771	26.96	33.91	75270	77130	94680	97010	1.50	8.0	18.8	
2	2.631	8	0.992	0.79	0.773	27.12	33.94	75700	77360	94770	96850	1.50	8.0	18.8	
3	1.477	6	0.743	0.44	0.434	13.17	17.96	66020	66930	90030	91280	1.30	8.0	16.3	
4	1.475	6	0.743	0.44	0.433	13.10	17.91	65660	66720	89780	91230	1.30	8.0	16.3	
5	1.035	5	0.622	0.31	0.304	8.51	13.12	60560	61750	93340	95180	1.40	8.0	17.5	
6	1.042	5	0.624	0.31	0.306	8.74	13.35	62150	62970	95000	96250	1.40	8.0	17.5	
7	0.665	4	0.498	0.20	0.195	4.96	7.90	54750	56150	87120	89350	1.20	8.0	15.0	
8	0.676	4	0.503	0.20	0.199	6.09	9.38	67110	67450	103420	103940	1.10	8.0	13.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Sub Divisional Officer, BSD

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

Mandi Bahauddin. (Prov. Of Infra. Academic & Operational Facilities To The Punjab Uni Of Tech Rasul)

Client Reference: 175A/MB

SOM Lab

Ref: 733 (Page-1/1)

Dated: 20-06-2022

Dated: 12-08-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.509	6	0.751	0.44	0.443	13.93	18.32	69850	69380	91820	91200	1.50	8.0	18.8	
2	0.671	4	0.501	0.20	0.197	6.34	8.33	69920	70990	91840	93240	1.20	8.0	15.0	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Four 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](http://www.uet-civil.edu.pk)

Sub Divisional officer,

**Test Performed By:** Dr. /Engr. Irfan UI Hasan

BSD Shakargarh.(Programme For revamping Of All THQ Hospital In Punjab One At Skg)

**Client Reference:** 1016/Sg

**SOM Lab**

**Ref:** 734 (Page-1/1)

**Dated:** 01-07-2022

**Dated:** 12-08-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.678	4	0.503	0.20	0.199	7.10	9.30	78350	78740	102520	103030	1.10	8.0	13.8	
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**BEND TEST:**

# 4	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Two Samples Received and Tested

Note: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Muhammad Nasim

Test Performed By:

Dr. /Engr.

Urfan UI Hasan

AE B&R For GE(Army)-II LRC.(Const Of 1xB type Veh Shed,212 IIBG at Lhr Cantt)

Client Reference: 6003/149/E-6

SOM Lab

Ref:

737 (Page-1/1)

Dated: 12-08-2022

Dated:

10-08-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.498	6	0.748	0.44	0.440	14.17	22.14	71020	71020	110980	110980	1.30	8.0	16.3	
2	1.498	6	0.748	0.44	0.440	14.07	22.53	70510	70510	112920	112920	1.10	8.0	13.8	
3	0.659	4	0.497	0.20	0.194	6.09	9.58	67110	69190	105670	108930	1.20	8.0	15.0	
4	0.667	4	0.500	0.20	0.196	6.22	9.60	68570	69970	105890	108050	1.20	8.0	15.0	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Engr. M Abbas

**Test Performed By:**

**Dr. /Engr.**

Irfan Ul Hassan

RE City Survey & Engg Consultants.(Green View Executive Apartments Phase-V)

**Client Reference:** GVA/RE/10/22

**SOM Lab**

**Ref:**

738 (Page-1/1)

**Dated:** 10-08-2022

**Dated:**

12-08-2022

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.498	8	0.967	0.79	0.734	27.62	33.74	77120	83010	94200	101380	1.40	8.0	17.5	
2	2.495	8	0.966	0.79	0.733	26.91	33.69	75130	80970	94050	101370	1.20	8.0	15.0	
3	1.474	6	0.743	0.44	0.433	15.16	19.22	75980	77210	96320	97870	1.10	8.0	13.8	
4	1.473	6	0.743	0.44	0.433	15.39	19.32	77160	78400	96830	98390	1.40	8.0	17.5	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six 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](http://www.uet-civil.edu.pk)

Waqas Ali  
Variant Gulberg 2, Lahore.

Test Performed By: Dr. /Engr. Irfan UI Hassan

Client Reference: VA/29/32

SOM Lab

Ref: 739 (Page-1/1)

Dated: 12-08-2022

Dated: 12-08-2022

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.494	6	0.748	0.44	0.439	14.37	19.78	72050	72210	99130	99350	1.10	8.0	13.8	
2	1.480	6	0.744	0.44	0.435	13.48	19.34	67550	68330	96930	98040	1.20	8.0	15.0	
3	0.681	4	0.505	0.20	0.200	6.83	9.60	75320	75320	105890	105890	1.20	8.0	15.0	
4	0.664	4	0.498	0.20	0.195	6.80	9.07	74980	76900	100050	102610	1.30	8.0	16.3	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)