Muteen Zafar Malik **Test Performed By:** **Dr. /Engr.** Nauman Khurram

PM MA EnGineering Services.Lahore.(ENGRO ENFRASHRE B2S Towers)

Client Reference: MA/UET/LHR/014 **Dated:** 08-03-2022

SOM Lab Ref: CED/SOM/575(Page-1/3) **Dated:** 29-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: 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	2.192	20	18.85	314	279	136.20	183.20	434	489	583	657	30.0	200	15.0	
2	1.608	16	16.15	201	205	111.00	138.20	552	542	687	675	27.5	200	13.8	
3	0.893	12	12.04	113	114	50.70	65.70	448	446	581	578	27.5	200	13.8	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

Muteen Zafar Malik **Test Performed By:** **Dr. /Engr.** Nauman Khurram

PM MA EnGineering Services.Lahore.(ENGRO ENFRASHRE B2S Towers)

Client Reference: MA/UET/LHR/015 **Dated:** 04-04-2022

SOM Lab Ref: CED/SOM/575(Page-2/3) **Dated:** 29-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: 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	2.253	20	19.12	314	287	134.00	180.20	427	467	574	628	30.0	200	15.0	
2	1.569	16	15.95	201	200	105.20	132.00	523	527	657	661	30.0	200	15.0	
3	0.907	12	12.13	113	116	51.20	65.70	453	444	581	569	27.5	200	13.8	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

Muteen Zafar Malik **Test Performed By:** **Dr. /Engr.** Nauman Khurram

PM MA EnGineering Services.Lahore.(ENGRO ENFRASHRE B2S Towers)

Client Reference: MA/UET/LHR/016 **Dated:** 02-06-2022

SOM Lab Ref: CED/SOM/575(Page-3/3) **Dated:** 29-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: 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	2.224	20	18.98	314	283	134.00	179.70	427	474	572	635	32.5	200	16.3	
2	1.597	16	16.09	201	203	111.50	137.80	555	549	685	678	30.0	200	15.0	
3	0.984	12	12.63	113	125	65.70	83.00	581	525	734	663	25.0	200	12.5	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

Hamid Iqbal Paracha (CE) **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

First And Fast Const Co.(Ext Main Bldg At Master Auto Engg.Pvt.Ltd at Plot No 315.316 Sahiawala)

Client Reference: FNF/ST/001 **Dated:** 29-06-2022

SOM Lab Ref: CED/SOM/577(Page-1/1) **Dated:** 29-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: 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	3.734	25	24.62	491	476	253.70	322.50	517	533	657	678	35.0	200	17.5	
2	2.326	20	19.42	314	296	168.70	197.20	537	570	628	666	25.0	200	12.5	
3	0.991	12	12.68	113	126	65.20	81.50	576	517	721	646	25.0	200	12.5	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	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

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

M.E AS Enterprises (Project: Style Textile Manga,Knitting 3 ETP 3)

Client Reference: STR/ASE/01 **Dated:** 29-06-2022

SOM Lab Ref: CED/SOM/579(Page-1/1) **Dated:** 29-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: MS Deformed Bar (Mughal Steel)) **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	3.931	25	25.26	491	501	257.50	333.20	525	514	679	666	30.0	200	15.0	
2	3.916	25	25.20	491	499	263.00	335.00	536	528	682	672	35.0	200	17.5	
3	2.467	20	20.00	314	314	163.00	214.20	519	519	682	682	22.5	200	11.3	
4	2.461	20	19.98	314	313	158.50	202.20	505	506	644	646	25.0	200	12.5	
5	1.573	16	15.97	201	200	101.00	126.50	502	505	629	632	32.5	200	16.3	
6	1.555	16	15.88	201	198	99.20	125.70	493	501	625	635	32.5	200	16.3	
7	0.899	12	12.08	113	115	57.00	74.50	504	498	659	651	30.0	200	15.0	
8	0.899	12	12.08	113	115	60.00	78.00	531	524	690	682	30.0	200	15.0	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack
20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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

Engr. Zaheer Ud Din Babar **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Client Reference: HRLE/SKG/2022/033 **Dated:** 29-06-2022
SOM Lab Ref: CED/SOM/580(Page-1/1) **Dated:** 29-06-2022
Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615
Sample Type: M S Deformed Bar (AFCO Steel) **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	3.706	25	24.52	491	472	204.70	317.70	417	434	647	674	37.5	200	18.8	
2	3.724	25	24.58	491	474	198.50	314.20	404	419	640	663	40.0	200	20.0	
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BEND TEST:

25mm	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. Zaheer Ud Din Babar **Test Performed By:** **Dr. /Engr.** Nauman Khurram
Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Client Reference: HRLE/SKG/2022/034 **Dated:** 29-06-2022
SOM Lab Ref: CED/SOM/581(Page-1/1) **Dated:** 29-06-2022
Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615
Sample Type: M S Deformed Bar (AFCO Steel) **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	4.648	28	27.46	616	592	253.00	402.20	411	428	653	680	35.0	200	17.5	
2	4.751	28	27.76	616	605	270.50	423.00	439	447	687	699	27.5	200	13.8	
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BEND TEST:

28mm	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

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

Inspector Of W/RSP PakRailways,Lhr.(Const & Renv In Production Unit in Electric Shop Of Single Shop)

Client Reference: 389-SIG/A/2021-22 **SOM Lab Ref:** 490 (Page-1/1)

Dated: 13-06-2022 **Dated:** 15-06-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Etfaaq 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	1.476	6	0.743	0.44	0.434	15.85	19.16	79450	80550	96060	97390	1.10	8.0	13.8	
2	1.486	6	0.746	0.44	0.437	17.38	20.49	87120	87720	102700	103410	1.00	8.0	12.5	
3	1.014	5	0.616	0.31	0.298	8.89	13.00	63240	65790	92470	96190	1.50	8.0	18.8	
4	1.023	5	0.619	0.31	0.301	8.89	12.95	63240	65130	92100	94860	1.40	8.0	17.5	
5	0.652	4	0.494	0.20	0.192	6.09	8.15	67110	69910	89930	93680	1.00	8.0	12.5	
6	0.066	4	0.156	0.20	0.019	6.03	8.07	66550	700460	89030	937100	1.00	8.0	12.5	
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BEND TEST:

# 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:-

Only Nine Samples Received and Tested

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

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

Lahore.(Vertical heights plot # 68 B2 Gulberg-III Lahore)

Client Reference: Nil **SOM Lab Ref:** 574 (Page-1/1)

Dated: 29-06-2022 **Dated:** 29-06-2022

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	2.589	8	0.984	0.79	0.761	22.48	31.04	62750	65140	86660	89960	1.50	8.0	18.8	Union
2	2.604	8	0.987	0.79	0.765	28.77	35.29	80310	82930	98520	101740	1.60	8.0	20.0	Union
3	1.497	6	0.748	0.44	0.440	13.78	18.98	69080	69080	95140	95140	1.30	8.0	16.3	Batala
4	1.525	6	0.755	0.44	0.448	13.78	19.29	69080	67850	96670	94950	1.40	8.0	17.5	Batala
5	0.657	4	0.496	0.20	0.193	6.32	9.19	69700	72220	101390	105070	1.20	8.0	15.0	Batala
6	0.655	4	0.494	0.20	0.192	6.19	9.09	68230	71080	100270	104450	1.20	8.0	15.0	Batala
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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
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Tahir Ghouri **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Admin Manager Mall-One Wazirabad.(Const Of "Mall One Wazirabad")

SOM Lab Ref: 576 (Page-1/1)

Client Reference: Nil **Dated:** 29-06-2022

Dated: 27-06-2022

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	2.580	8	0.982	0.79	0.758	24.06	32.39	67160	70000	90410	94230	1.50	8.0	18.8	
2	2.580	8	0.982	0.79	0.758	24.31	32.69	67870	70740	91270	95120	1.20	8.0	15.0	
3	1.478	6	0.743	0.44	0.434	13.88	18.22	69590	70560	91310	92570	1.20	8.0	15.0	
4	1.471	6	0.742	0.44	0.432	14.07	18.25	70510	71820	91460	93160	1.20	8.0	15.0	
5	0.673	4	0.502	0.20	0.198	6.27	8.94	69130	69830	98580	99580	1.10	8.0	13.8	
6	0.670	4	0.501	0.20	0.197	6.34	8.92	69920	70990	98360	99860	1.20	8.0	15.0	
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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
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Nauman Khurram
HSD,Shahpur.(Widening & Improvement Of Sahiwal To Shahpur L 34.43Km In Distt Sargodha)

Client Reference: 128/SP
Dated: 23-06-2022

SOM Lab Ref: 578 (Page-1/1)
Dated: 29-06-2022

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	0.676	4	0.503	0.20	0.199	4.40	6.73	48560	48810	74190	74560	1.50	8.0	18.8	
2	0.676	4	0.503	0.20	0.199	4.49	6.90	49460	49710	76100	76490	1.50	8.0	18.8	
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BEND TEST:

--	No Bend test performed

Note:-

Only Two Samples Received and Tested

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

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

PM Renaissance Internation,(Const Of LMC Homes at Lahore Motorway City Project,Skp Road,Lhr)

SOM Lab Ref: 582 (Page-1/1)

Client Reference: QC/22/028

Dated: 29-06-2022

Dated: 29-06-2022

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	1.273	5	0.690	0.31	0.374	8.41	13.51	59830	49600	96090	79650	1.40	8.0	17.5	
2	1.272	5	0.690	0.31	0.374	8.66	13.76	61650	51100	97910	81150	1.30	8.0	16.3	
3	0.728	4	0.522	0.20	0.214	4.18	6.37	46090	43080	70260	65660	1.00	8.0	12.5	
4	0.739	4	0.526	0.20	0.217	4.89	7.65	53960	49730	84310	77700	0.80	8.0	10.0	
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BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack
# 4	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

Deputy Director (Technical) **Test Performed By:** **Dr. /Engr.** Rehan Ashraf
Anti-Corruption Estb, Lahore Region,Lhr (Guest House Bldg,Quaid-e-Azam Solar Park At Bawalpur)

Client Reference: ACE-LR-(E-98/2022)2022/3597 **SOM Lab Ref:** 583 (Page-1/1)
Dated: 28-06-2022 **Dated:** 29-06-2022
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	0.656	4	0.496	0.20	0.193	6.22	8.58	68570	71060	94650	98080	0.90	8.0	11.3	
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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