Qaiser Maqbool **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Ittefaq Building Solution (Pvt)Ltd.(New Apparel Facility,Ferozwattwan)

Client Reference: IBS/SD/ST11 **Dated :** 30-08-2023

SOM Lab Ref: CED/SOM/2783(Page-1/1) **Dated :** 31-08-2023

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

Sample Type: 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	2.174	20	18.78	314	277	159.70	198.00	508	577	630	715	27.5	200	13.8	
2	1.642	16	16.32	201	209	160.00	190.20	796	765	946	910	25.0	200	12.5	
3	1.036	12	12.96	113	132	65.70	81.00	581	498	716	614	30.0	200	15.0	
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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

Mirza Muhammad Shahzad,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/112 **SOM Lab Ref:** 2777 (Page-1/2)
Dated: 28-08-2023 **Dated:** 31-08-2023

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615
Gauge Length: 8 inch **Sample Type:** Deformed Bar (Sheikhoo 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	1.489	6	0.747	0.44	0.438	13.78	18.86	69080	69400	94530	94960	1.50	8.0	18.8	1000-R
2	1.485	6	0.745	0.44	0.436	13.71	18.88	68730	69360	94630	95500	1.30	8.0	16.3	001-S
3	1.499	6	0.749	0.44	0.441	13.83	18.93	69340	69180	94880	94670	1.30	8.0	16.3	003-S
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BEND TEST:

Sr (1-3)	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

Mirza Muhammad Shahzad,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/111 **SOM Lab Ref:** 2777 (Page-2a/2)
Dated: 28-08-2023 **Dated:** 31-08-2023

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615
Gauge Length: 8 inch **Sample Type:** Deformed Bar (Sheikhoo 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	1.033	5	0.622	0.31	0.304	10.06	13.15	71580	72990	93550	95400	1.20	8.0	15.0	F.S
2	1.019	5	0.617	0.31	0.299	10.04	13.25	71440	74060	94280	97750	1.20	8.0	15.0	SJ-129
3	1.038	5	0.623	0.31	0.305	10.40	13.58	73970	75190	96600	98180	1.20	8.0	15.0	R-120
4	1.034	5	0.622	0.31	0.304	10.30	13.40	73250	74690	95370	97250	1.20	8.0	15.0	R-122
5	1.037	5	0.623	0.31	0.305	10.01	13.30	71220	72390	94640	96190	1.20	8.0	15.0	SJ-137
6	1.034	5	0.622	0.31	0.304	10.27	13.37	73030	74470	95150	97030	1.20	8.0	15.0	R-153
7	1.031	5	0.621	0.31	0.303	10.21	13.17	72670	74350	93700	95860	1.30	8.0	16.3	R-154
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BEND TEST:

Sr (1-7)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Fourteen Samples Received and Tested

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

Mirza Muhammad Shahzad,RE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani
Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/111 **SOM Lab Ref:** 2777 (Page-2b/2)
Dated: 28-08-2023 **Dated:** 31-08-2023

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615
Gauge Length: 8 inch **Sample Type:** Deformed Bar (Sheikhoo 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	0.659	4	0.497	0.20	0.194	6.29	8.56	69360	71500	94420	97340	1.10	8.0	13.8	SJ-110
2	0.665	4	0.498	0.20	0.195	6.29	8.53	69360	71140	94090	96500	1.10	8.0	13.8	SJ-111
3	0.669	4	0.501	0.20	0.197	6.63	9.12	73070	74180	100610	102140	1.20	8.0	15.0	SJ-119
4	0.665	4	0.498	0.20	0.195	6.90	8.79	76100	78050	96900	99380	1.10	8.0	13.8	SJ-138
5	0.661	4	0.497	0.20	0.194	5.30	7.75	58460	60260	85430	88070	1.40	8.0	17.5	R-155
6	0.676	4	0.503	0.20	0.199	5.68	8.15	62610	62930	89930	90380	1.40	8.0	17.5	R-156
7	0.681	4	0.505	0.20	0.200	5.88	9.43	64860	64860	103980	103980	1.20	8.0	15.0	R-157
8	0.676	4	0.503	0.20	0.199	5.88	8.43	64860	65190	92960	93430	1.40	8.0	17.5	R-158
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BEND TEST:

Sr (1-8)	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Sixteen Samples Received and Tested

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

Z.H. Kazmi **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Z.H.Kazmi & Associates.(Construction Of MCB Bank Ltd.Gohadpur Branch Gujranwala Region,0222)

Client Reference: Nil **SOM Lab Ref:** 2778 (Page-1/1)

Dated: 31-08-2023 **Dated:** 31-08-2023

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	2.666	8	0.998	0.79	0.783	22.14	35.88	61810	62370	100170	101070	1.40	8.0	17.5	
2	2.644	8	0.995	0.79	0.777	23.16	37.87	64660	65740	105720	107490	1.30	8.0	16.3	
3	0.569	4	0.461	0.20	0.167	4.59	7.16	50590	60580	78910	94510	1.10	8.0	13.8	
4	0.591	4	0.471	0.20	0.174	4.94	7.56	54520	62670	83410	95870	1.20	8.0	15.0	
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BEND TEST:

# 8	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

Engineer Muhammad Irshad
Asst Dir Dev. DHA Gujranwala.(Const Of Northern Gate)

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

Client Reference: 111/3/AD/Dev/Makhdoomi/17
Dated: 29-08-2023

SOM Lab Ref: 2779 (Page-1/1)
Dated: 31-08-2023

Test: Tension Test & Bend Test
Test Specification: ASTM-A-615 Deformed Bar (SJ Steel)

Gauge Length: 8 inch
Sample Type:

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	2.663	8	0.998	0.79	0.783	25.18	35.42	70290	70920	98890	99780	1.40	8.0	17.5	
2	2.656	8	0.997	0.79	0.781	24.87	35.37	69440	70240	98750	99890	1.30	8.0	16.3	
3	1.496	6	0.748	0.44	0.440	14.48	19.06	72560	72560	95550	95550	1.40	8.0	17.5	
4	1.499	6	0.749	0.44	0.441	14.68	19.18	73580	73410	96160	95940	1.30	8.0	16.3	
5	0.672	4	0.501	0.20	0.197	5.73	8.53	63180	64140	94090	95520	1.20	8.0	15.0	
6	0.673	4	0.502	0.20	0.198	5.68	8.33	62610	63250	91840	92770	1.10	8.0	13.8	
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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

Muhammad Khalid Zaman **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

RE ECSP PAPA North Zone Projects.(Provision Of Safe Drinking Water in Distt Fsd Chak Jhumrah)

Client Reference: ECSP/PAPA/66 bores-Lot1-18 **SOM Lab Ref:** 2780 (Page-1/1)

Dated: 28-08-2023 **Dated:** 31-08-2023

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Sheikhoo 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	2.647	8	0.995	0.79	0.778	26.63	35.95	74330	75480	100370	101920	1.40	8.0	17.5	
2	1.508	6	0.751	0.44	0.443	14.37	19.49	72050	71560	97690	97030	1.50	8.0	18.8	
3	0.666	4	0.500	0.20	0.196	6.63	8.77	73070	74560	96670	98650	1.30	8.0	16.3	
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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 Six Samples Received and Tested

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

Allied Bank **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Manager ABL-UMLP-199&200.(Const Of ABL Upper Mall Lahore)

Client Reference: ABL-UML-AMC-QAQC-22 **SOM Lab Ref:** 2781 (Page-1/1)

Dated: 31-08-2023 **Dated:** 31-08-2023

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Model 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	1.478	6	0.743	0.44	0.434	14.95	18.65	74960	75990	93510	94800	1.40	8.0	17.5	
2	1.498	6	0.748	0.44	0.440	14.34	18.17	71890	71890	91050	91050	1.50	8.0	18.8	
3	1.500	6	0.749	0.44	0.441	14.63	18.37	73320	73160	92070	91870	1.50	8.0	18.8	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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

Malik Ali Haider
Aziz Steel Industries Muridke.

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

Client Reference: Nil
Dated: 31-08-2023

SOM Lab Ref: 2782 (Page-1/1)
Dated: 31-08-2023

Test: Tension Test & Bend Test
Gauge Length: 8 inch

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	2.651	8	0.996	0.79	0.779	22.91	36.75	63950	64850	102590	104040	1.50	8.0	18.8	
2	1.521	6	0.754	0.44	0.447	13.43	21.10	67290	66240	105770	104110	1.30	8.0	16.3	
3	0.666	4	0.500	0.20	0.196	6.03	9.58	66550	67910	105670	107820	1.20	8.0	15.0	
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BEND TEST:

--	No Bend test performed

Note:-

Only Three Samples Received and Tested

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