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

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: **QC/HQ/CIVIL/107** **Dated :** **15-07-2023**

SOM Lab Ref: **CED/SOM/2602(Page-1/3)** **Dated :** **20-07-2023**

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	3.985	25	25.43	491	508	257.20	344.00	524	507	701	678	37.5	200	18.8	
2	3.987	25	25.43	491	508	251.70	339.00	513	496	691	668	32.5	200	16.3	
3	2.442	20	19.90	314	311	155.00	203.00	493	499	646	653	35.0	200	17.5	
4	2.419	20	19.81	314	308	146.20	194.00	465	475	618	630	35.0	200	17.5	
5	1.567	16	15.94	201	200	91.20	126.70	454	457	630	635	37.5	200	18.8	
6	1.577	16	15.99	201	201	92.70	127.70	461	462	635	636	35.0	200	17.5	
7	0.909	12	12.14	113	116	52.70	72.20	466	456	638	624	35.0	200	17.5	
8	0.906	12	12.12	113	115	53.70	73.20	475	466	647	635	32.5	200	16.3	
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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

Aamir Shahzad Alvi **Test Performed By:** **Dr. /Engr.** **Waseem Abbas**

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: **QC/HQ/CIVIL/110** **Dated :** **19-06-2023**

SOM Lab Ref: **CED/SOM/2602(Page-2/3)** **Dated :** **20-07-2023**

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	2.471	20	20.03	314	315	156.50	212.20	498	497	675	674	35.0	200	17.5	
2	2.484	20	20.07	314	316	153.70	209.50	489	486	667	662	37.5	200	18.8	
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BEND TEST:

20mm	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

Aamir Shahzad Alvi **Test Performed By:** **Dr. /Engr.** **Waseem Abbas**

PM High-Q Constructions Lhr.(Const Of High-Q Mall at 3-A Gulberg II Lahore)

Client Reference: **QC/HQ/CIVIL/108** **Dated :** **16-06-2023**

SOM Lab Ref: **CED/SOM/2602(Page-3/3)** **Dated :** **20-07-2023**

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	3.947	25	25.31	491	503	256.70	339.20	523	511	691	675	32.5	200	16.3	
2	4.036	25	25.59	491	514	272.00	351.70	554	529	716	684	37.5	200	18.8	
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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

Sheikhoo Steel **Test Performed By:** **Dr. /Engr. Irfan Ul Hassan**

Director Projects, Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

Client Reference: **Nil** **Dated :** **18-07-2023**

SOM Lab Ref: **CED/SOM/2603(Page-1a/1)** **Dated :** **20-07-2023**

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

Sample Type: **Deformed Bar (Sheikhoo 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	2.429	20	19.84	314	309	154.50	213.70	492	500	680	692	32.5	200	16.3	R-310
2	2.442	20	19.90	314	311	152.80	212.00	486	492	675	682	35.0	200	17.5	R-311
3	2.427	20	19.84	314	309	156.00	212.00	497	505	675	686	35.0	200	17.5	R-312
4	2.440	20	19.89	314	311	154.50	213.70	492	498	680	688	35.0	200	17.5	R-313
5	2.388	20	19.68	314	304	152.70	211.70	486	502	674	696	32.5	200	16.3	R-314
6	2.412	20	19.78	314	307	152.70	213.00	486	497	678	694	35.0	200	17.5	R-315
7	2.445	20	19.91	314	311	154.00	208.70	490	495	664	671	35.0	200	17.5	R-316
8	2.423	20	19.82	314	309	155.20	214.50	494	503	683	695	35.0	200	17.5	R-317
9	2.420	20	19.81	314	308	155.70	212.00	496	506	675	688	35.0	200	17.5	R-319
10	2.430	20	19.85	314	309	154.70	215.50	492	500	686	697	32.5	200	16.3	R-321

BEND TEST:

--	No Bend test performed

Note:-

Only Ten Samples Received and Tested

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

Sheikhoo Steel **Test Performed By:** **Dr. /Engr. Irfan Ul Hassan**

Director Projects, Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

Client Reference: **Nil** **Dated :** **18-07-2023**

SOM Lab Ref: **CED/SOM/2603(Page-1b/1)** **Dated :** **20-07-2023**

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

Sample Type: **Deformed Bar (Sheikhoo 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	2.426	20	19.84	314	309	160.70	215.20	512	521	685	697	32.5	200	16.3	R-322
2	2.427	20	19.84	314	309	157.20	219.00	500	509	697	709	30.0	200	15.0	R-323
3	2.429	20	19.85	314	309	158.20	216.50	504	512	689	700	32.5	200	16.3	R-325
4	2.439	20	19.89	314	311	154.00	212.00	490	496	675	683	35.0	200	17.5	R-327
5	2.443	20	19.90	314	311	153.00	210.00	487	492	668	675	32.5	200	16.3	R-329
6	2.423	20	19.82	314	309	157.00	211.20	500	509	672	685	35.0	200	17.5	R-330
7	2.439	20	19.89	314	311	156.20	216.20	497	503	688	696	37.5	200	18.8	R-331
8	0.882	12	11.96	113	112	55.00	76.50	486	490	676	681	32.5	200	16.3	R-128
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BEND TEST:

--	No Bend test performed

Note:-

Only Eight Samples Received and Tested

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

QATALYTIC ENGINEERS,PM **Test Performed By:** **Dr. /Engr.** **Asad Ali Gillani**

Lahore.(Hyundai Nishat Motors Faisalabad)

Client Reference: **Nil** **SOM Lab Ref:** **2598 (Page-1/1)**

Dated: **18-07-2023** **Dated:** **20-07-2023**

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

Gauge Length: **8 inch** **Sample Type:** **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	0.670	4	0.501	0.20	0.197	6.37	8.21	70260	71330	90490	91870	1.50	8.0	18.8	
2	0.671	4	0.501	0.20	0.197	6.83	8.18	75320	76460	90150	91530	1.20	8.0	15.0	
3	0.669	4	0.501	0.20	0.197	6.54	8.22	72170	73270	90600	91980	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

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

AR State Grid CEPET.(500KV MAIRA SWITCHING STATION)

Client Reference: CET/ADB-300B/23/262
Dated: 17-07-2023

SOM Lab Ref: 2599 (Page-1/1)
Dated: 20-07-2023

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Kamran 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	2.646	8	0.995	0.79	0.778	24.46	36.11	68300	69350	100800	102350	1.40	8.0	17.5	
2	2.665	8	0.998	0.79	0.783	23.87	35.42	66650	67250	98890	99780	1.40	8.0	17.5	
3	1.494	6	0.748	0.44	0.439	15.36	20.46	77000	77180	102550	102780	1.10	8.0	13.8	
4	1.502	6	0.749	0.44	0.441	15.26	20.66	76490	76320	103570	103340	1.30	8.0	16.3	
5	0.656	4	0.496	0.20	0.193	6.49	8.74	71610	74200	96340	99830	0.90	8.0	11.3	
6	0.651	4	0.493	0.20	0.191	6.57	8.89	72510	75920	98020	102640	1.00	8.0	12.5	
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Witnessed By: M.Khaliq (Elect. Engr,Barqaab Representataive),Zeeshan Ali (J.Engr.Representative)

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

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Boundary Wall Sector G,K & L)

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

Client Reference: 111/15/AD/Lab/BW/G,K,L/07 **SOM Lab Ref:** 2600 (Page-1/1)

Dated: 19-07-2023 **Dated:** 20-07-2023

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Taibah 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	1.433	6	0.732	0.44	0.421	12.44	19.44	62340	65150	97440	101840	1.40	8.0	17.5	
2	1.435	6	0.733	0.44	0.422	12.13	19.34	60810	63400	96930	101060	1.40	8.0	17.5	
3	0.649	4	0.493	0.20	0.191	5.47	8.61	60370	63210	94990	99460	1.50	8.0	18.8	
4	0.650	4	0.493	0.20	0.191	5.50	8.77	60700	63560	96670	101230	1.30	8.0	16.3	
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Witnessed By: Hafiz Danish LT,DHAG

BEND TEST:

# 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

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

Quetta.(Constuction Of Bridge at Spera Ragha Road)

Client Reference: Spera/Ragha/08 **SOM Lab Ref:** 2601 (Page-1/1)

Dated: 18-07-2023 **Dated:** 20-07-2023

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

Gauge Length: 8 inch **Sample Type:** 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	2.701	8	1.005	0.79	0.794	25.28	35.88	70580	70220	100170	99670	1.40	8.0	17.5	
2	0.668	4	0.500	0.20	0.196	6.65	8.72	73290	74790	96110	98070	1.20	8.0	15.0	
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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

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

Project Engr. JV Building Section DHA Gujranwala.(Const Of Office Complex DHA Gujranwala)

Client Reference: 111/3/PE JV Bldgs/GEN/39 **SOM Lab Ref:** 2604 (Page-1/2)

Dated: 20-07-2023 **Dated:** 20-07-2023

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Siraj 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	1.500	6	0.749	0.44	0.441	13.56	21.87	67960	67800	109600	109350	1.30	8.0	16.3	
2	1.526	6	0.755	0.44	0.448	13.40	21.87	67190	65990	109600	107640	1.30	8.0	16.3	
3	1.066	5	0.631	0.31	0.313	8.97	14.14	63820	63210	100590	99620	1.20	8.0	15.0	
4	1.074	5	0.634	0.31	0.316	9.09	14.09	64690	63460	100230	98320	1.40	8.0	17.5	
5	0.666	4	0.500	0.20	0.196	6.01	9.33	66320	67680	102860	104950	1.40	8.0	17.5	
6	0.672	4	0.501	0.20	0.197	6.12	9.50	67450	68470	104770	106360	1.20	8.0	15.0	
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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

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

Project Engr. JV Building Section DHA Gujranwala.(Const Of Office Complex DHA Gujranwala)

Client Reference: 111/3/PE JV Bldgs/GEN/34 **SOM Lab Ref:** 2604 (Page-2/2)

Dated: 20-07-2023 **Dated:** 20-07-2023

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Siraj 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	1.528	6	0.756	0.44	0.449	12.61	19.67	63210	61940	98610	96640	1.30	8.0	16.3	
2	1.510	6	0.752	0.44	0.444	12.71	19.88	63720	63140	99640	98740	1.50	8.0	18.8	
3	1.049	5	0.626	0.31	0.308	9.40	13.97	66870	67300	99360	100000	1.40	8.0	17.5	
4	1.037	5	0.623	0.31	0.305	9.33	13.91	66360	67450	98990	100620	1.50	8.0	18.8	
5	0.651	4	0.493	0.20	0.191	5.79	8.74	63850	66860	96340	100870	1.40	8.0	17.5	
6	0.651	4	0.493	0.20	0.191	5.93	8.72	65420	68510	96110	100640	1.30	8.0	16.3	
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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

Naveed Ahmad
Asst Dir Lab DHA Bahawalpur Cantonment.(Masjid Sec-A)

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

Client Reference: 530/QC/MTL
Dated: 19-07-2023

SOM Lab Ref: 2605 (Page-1/2)
Dated: 20-07-2023

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

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Ittehad 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	1.520	6	0.754	0.44	0.447	15.60	19.24	78180	76950	96420	94910	1.30	8.0	16.3	
2	0.659	4	0.497	0.20	0.194	5.78	8.53	63740	65710	94090	97000	1.30	8.0	16.3	
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BEND TEST:

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

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

Asst Dir Lab DHA Bahawalpur Cantonment.(Pelican Mall DHA Bahawalpur)

Client Reference: 530/QC/MTL **SOM Lab Ref:** 2605 (Page-2/2)

Dated: 19-07-2023 **Dated:** 20-07-2023

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

Gauge Length: 8 inc **Sample Type:** Deformed Bar (Kamran

h **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	2.616	6	0.990	0.44	0.769	23.80	35.32	119310	68270	177040	101300	1.20	8.0	15.0	
2	0.661	4	0.497	0.20	0.194	5.76	8.53	63510	65480	94090	97000	1.30	8.0	16.3	
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BEND TEST:

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