Sheikhoo Steel **Test Performed By:** **Dr. /Engr.** Nauman Khurram

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

Client Reference: Nil **Dated :** 02-08-2023

SOM Lab Ref: CED/SOM/2656(Page-1a/1) **Dated :** 04-08-2023

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	1.534	16	15.76	201	195	99.20	137.20	493	509	682	704	30.0	200	15.0	R-537
2	1.539	16	15.80	201	196	99.50	138.50	495	508	689	707	35.0	200	17.5	R-538
3	1.557	16	15.89	201	198	98.20	134.50	488	495	669	678	32.5	200	16.3	R-539
4	1.557	16	15.89	201	198	99.50	133.20	495	502	662	672	35.0	200	17.5	R-540
5	1.554	16	15.88	201	198	99.70	133.50	496	504	664	675	32.5	200	16.3	R-542
6	1.568	16	15.95	201	200	97.00	132.20	482	486	658	662	35.0	200	17.5	R-543
7	1.550	16	15.86	201	197	98.00	132.70	487	497	660	673	32.5	200	16.3	R-545
8	1.572	16	15.97	201	200	100.20	133.70	498	501	665	668	32.5	200	16.3	R-547
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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

Sheikhoo Steel **Test Performed By:** **Dr. /Engr.** Nauman Khurram

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

Client Reference: Nil **Dated :** 02-08-2023

SOM Lab Ref: CED/SOM/2656(Page-1b/1) **Dated :** 04-08-2023

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	1.562	16	15.92	201	199	103.00	133.00	512	518	661	669	37.5	200	18.8	R-548
2	1.574	16	15.98	201	201	97.70	132.00	486	488	657	659	35.0	200	17.5	R-549
3	1.562	16	15.92	201	199	98.00	135.50	487	493	674	681	35.0	200	17.5	R-550
4	1.569	16	15.95	201	200	105.20	139.00	523	527	691	696	32.5	200	16.3	R-551
5	1.559	16	15.90	201	199	100.00	139.20	497	504	692	701	32.5	200	16.3	R-552
6	1.541	16	15.81	201	196	101.00	138.70	502	515	690	707	32.5	200	16.3	R-553
7	1.557	16	15.89	201	198	100.70	135.20	501	508	672	682	35.0	200	17.5	R-554
8	1.569	16	15.95	201	200	98.20	135.00	488	492	671	676	32.5	200	16.3	R-555
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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

Sheikhoo Steel **Test Performed By:** **Dr. /Engr.** Nauman Khurram

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

Client Reference: Nil **Dated:** 03-08-2023

SOM Lab Ref: CED/SOM/2657(Page-1/1) **Dated:** 04-08-2023

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	1.555	16	15.88	201	198	100.70	133.70	501	509	665	676	30.0	200	15.0	R-556
2	1.535	16	15.78	201	196	100.50	140.20	500	514	697	717	30.0	200	15.0	R-560
3	1.556	16	15.89	201	198	96.00	135.00	477	485	671	682	35.0	200	17.5	R-561
4	1.557	16	15.89	201	198	100.50	134.50	500	507	669	679	32.5	200	16.3	R-562
5	1.544	16	15.83	201	197	98.50	134.00	490	501	666	682	35.0	200	17.5	R-566
6	1.519	16	15.70	201	193	96.70	132.20	481	500	658	684	37.5	200	18.8	R-567
7	1.559	16	15.90	201	199	99.50	133.70	495	501	665	674	35.0	200	17.5	R-569
8	1.570	16	15.96	201	200	102.50	134.50	510	513	669	673	35.0	200	17.5	R-570
9	1.570	16	15.96	201	200	103.70	139.20	516	519	692	696	32.5	200	16.3	R-573
10	1.572	16	15.97	201	200	99.20	136.20	493	496	677	681	30.0	200	15.0	R-575

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

Waris Iqbal
GM Sales

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

Client Reference: Nil
Dated: 04-08-2023

SOM Lab Ref: 2654 (Page-1/1)
Dated: 04-08-2023

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

Test Specification: ASTM-A-615
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	2.576	8	0.982	0.79	0.757	23.70	35.22	66170	69050	98320	102610	1.60	8.0	20.0	A
2	1.493	6	0.748	0.44	0.439	14.53	18.04	72810	72980	90440	90650	1.30	8.0	16.3	B
3	0.667	4	0.500	0.20	0.196	6.49	8.63	71610	73070	95210	97150	1.20	8.0	15.0	C
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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

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Main Boulevard Extension)

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

Client Reference: 111/15/AD/RS/Lab/MBE/28
Dated: 22-07-2023

SOM Lab Ref: 2655 (Page-1/2)
Dated: 04-08-2023

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	1.468	6	0.741	0.44	0.431	13.48	18.67	67550	68960	93610	95560	1.40	8.0	17.5	
2	1.456	6	0.738	0.44	0.428	13.43	18.47	67290	69180	92590	95180	1.50	8.0	18.8	
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BEND TEST:

# 6	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

Engineer Muhammad Irfan
Asst Dir Infra. DHA Gujranwala.(Main Boulevard Extension)

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

Client Reference: 111/15/AD/RS/Lab/MBE/21
Dated: 19-07-2023

SOM Lab Ref: 2655 (Page-2/2)
Dated: 04-08-2023

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	0.671	4	0.501	0.20	0.197	6.63	8.82	73070	74180	97230	98720	1.20	8.0	15.0	
2	0.675	4	0.502	0.20	0.198	6.73	8.84	74190	74940	97460	98440	1.30	8.0	16.3	
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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

Sufyan Uppal, PE **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

Baig Constuction Co. Lahore.(Const. Of Jinnah Square Mall Raiwind Road Lahore)

Client Reference: ST/UET/04082023/4068 **SOM Lab Ref:** 2658 (Page-1/1)

Dated: 04-08-2023 **Dated:** 04-08-2023

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	2.765	8	1.017	0.79	0.813	25.64	34.83	71570	69550	97240	94490	1.50	8.0	18.8	
2	2.675	8	1.000	0.79	0.786	26.93	35.02	75190	75570	97750	98250	1.50	8.0	18.8	
3	1.449	6	0.736	0.44	0.426	13.48	18.55	67550	69770	92990	96050	1.30	8.0	16.3	
4	1.462	6	0.740	0.44	0.430	14.50	19.11	72660	74350	95800	98030	1.30	8.0	16.3	
5	0.681	4	0.505	0.20	0.200	6.78	8.66	74750	74750	95550	95550	1.20	8.0	15.0	
6	0.676	4	0.503	0.20	0.199	6.80	8.66	74980	75360	95550	96030	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 Nine Samples Received and Tested

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

Engr. Major Zia-Ul-Islam ®

PD GCC,Overseas Const.Co.(Project Gulberg City Cerntre, Lahore)

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

Client Reference: OCC/Steel/47

Dated: 04-08-2023

SOM Lab Ref: 2659 (Page-1/1)

Dated: 04-08-2023

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	2.658	8	0.997	0.79	0.781	24.77	33.00	69160	69950	92120	93180	1.60	8.0	20.0	
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BEND TEST:

# 8	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

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Asad Ali Gillani

BSD No.8,Lhr.(Multi-Storied Flat/Suited For Officers at Building Research Station Staff Colony,Lhr)

Client Reference: 618/8Th **SOM Lab Ref:** 2660 (Page-1/1)

Dated: 16-07-2023 **Dated:** 04-08-2023

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	2.676	8	1.000	0.79	0.786	21.76	35.24	60760	61070	98380	98880	1.50	8.0	18.8	
2	2.687	8	1.003	0.79	0.790	21.66	35.02	60480	60480	97750	97750	1.40	8.0	17.5	
3	1.516	6	0.754	0.44	0.446	12.76	20.10	63970	63110	100760	99400	1.40	8.0	17.5	
4	1.485	6	0.745	0.44	0.436	13.83	20.20	69340	69970	101270	102200	1.50	8.0	18.8	
5	0.658	4	0.496	0.20	0.193	5.50	8.43	60700	62900	92960	96340	1.30	8.0	16.3	
6	0.659	4	0.497	0.20	0.194	5.56	8.43	61270	63160	92960	95840	1.30	8.0	16.3	
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BEND TEST:

--	No Bend test performed

Note:-

Only Six Samples Received and Tested

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

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

Technical Head,Khatam-ul -Anbiya Mosque Mauza Jhandewal Distt. Gujrat.

Client Reference: ATL/UET/10/23-24 **SOM Lab Ref:** 2661 (Page-1/1)

Dated: 04-08-2023 **Dated:** 04-08-2023

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	1.526	6	0.755	0.44	0.448	12.69	20.05	63620	62480	100500	98710	1.40	8.0	17.5	
2	1.485	6	0.745	0.44	0.436	12.33	18.76	61830	62390	94020	94880	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