

Sheikhoo Steel Test Performed By: Dr. /Engr. Asad Ali Gillani  
 Chief Tech Officer, Sheikhoo Sugar Mills (Steel Div), Anwar Abad Kot Addu, Muzaffargarh.

Client Reference: Nil Dated : 07-07-2023

SOM Lab Ref: CED/SOM/2531(Page-1b/1) Dated : 10-07-2023

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

Sample Type: Deformed Bar (Sheikhoo Steel) Gauge Length: 200 m

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	m	%	
1	0.892	12	12.05	113	114	57.20	76.50	506	502	676	672	37.5	200	18.8	110-R
2	0.884	12	11.98	113	113	56.70	75.70	501	504	669	673	35.0	200	17.5	112-R
3	0.878	12	11.93	113	112	57.00	76.20	504	510	674	682	35.0	200	17.5	125-R
4	0.872	12	11.90	113	111	55.70	74.20	492	502	656	668	30.0	200	15.0	134-R
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**BEND TEST:**

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

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

Millat Iron Store  
Goli Maar Road, Sukkar

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

Client Reference: Nil

Dated : 10-07-2023

SOM Lab Ref: CED/SOM/2533(Page-1/1)

Dated : 10-07-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	2.446	20	19.93	314	312	156.50	210.70	498	502	671	676	32.5	200	16.3	
2	1.573	16	15.97	201	200	99.00	132.70	492	495	660	663	35.0	200	17.5	
3	0.993	12	12.69	113	126	54.70	73.70	484	433	652	583	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Six Samples Received and Tested</b>
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)

Shaukat Cement Steel Corporation  
Mingora Swat

Test Performed  
By:

Dr. /Engr. Asad Ali Gillani

Client Reference: Nil

Dated : 10-07-2023

SOM Lab Ref: CED/SOM/2534(Page-1a/1)

Dated : 10-07-2023

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	1.620	16	16.20	201	206	101.50	135.20	505	493	672	657	30.0	200	15.0	
2	0.993	12	12.69	113	126	52.00	72.70	460	412	643	575	32.5	200	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

16mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Four Samples Received and Tested</b>
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)

BIHTAI IRON STORE

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Daharki

Client Reference: Nil

Dated : 10-07-2023

SOM Lab Ref: CED/SOM/2535(Page-1/1)

Dated : 10-07-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	0.991	12	12.67	113	126	53.70	75.50	475	427	668	600	37.5	200	18.8	
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**BEND TEST:**

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Two Samples Received and Tested</b>

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

Karachi Iron Store

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

Mirpur Mathello

Client Reference: Nil

Dated : 10-07-2023

SOM Lab Ref: CED/SOM/2537(Page-1/1)

Dated : 10-07-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	0.998	12	12.72	113	127	54.00	76.50	477	426	676	603	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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**BEND TEST:**

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Two Samples Received and Tested</b>

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

Liaqat Iron Store

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Rang Pur Road Chowk Sarwar

Client Reference: Nil

Dated : 10-07-2023

SOM Lab Ref: CED/SOM/2538(Page-1/1)

Dated : 10-07-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	1.000	12	12.72	113	127	52.50	73.50	464	414	650	579	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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**BEND TEST:**

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Two Samples Received and Tested</b>

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

Munshi siddique Iron Store

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Multan Road Chowk Azam

Client Reference: Nil Dated : 10-07-2023  
 SOM Lab Ref: CED/SOM/2539(Page-1a/1) Dated : 10-07-2023  
 Test: Tension Test & Bend Test Test Specification: ASTM-A 615  
 Sample Type: Deformed Bar (Sheikhoo Steel) Gauge Length: 200 m

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	m	%	
1	0.995	12	12.72	113	127	50.70	72.20	448	400	638	569	37.5	200	18.8	
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**BEND TEST:**

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Two Samples Received and Tested</b>

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

**Railway Road Khushab**

Client Reference: Nil Dated : 10-07-2023  
 SOM Lab Ref: CED/SOM/2540(Page-1/1) Dated : 10-07-2023  
 Test: Tension Test & Bend Test Test Specification: ASTM-A 615  
 Sample Type: Deformed Bar (Sheikhoo Steel) Gauge Length: 200 m

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	m	%	
1	0.998	12	12.72	113	127	50.70	72.20	448	400	638	569	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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**BEND TEST:**

12mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Two Samples Received and Tested</b>

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



Pano Aqil

Client Reference: Nil

Dated : 10-07-2023

SOM Lab Ref: CED/SOM/2541(Page-1a/1)

Dated : 10-07-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	1.550	16	15.88	201	198	109.20	142.20	543	552	707	719	32.5	200	16.3	
2	1.000	12	12.74	113	127	54.50	73.70	482	428	652	579	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

16mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-  Only Four Samples Received and Tested</b>
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)

Sheikhoo Steel

Test Performed By:

Dr. /Engr. Asad Ali Gillani

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

Client Reference: Nil

Dated : 16-07-2023

SOM Lab Ref: CED/SOM/2589(Page-1c/1)

Dated : 18-07-2023

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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.898	25	25.16	491	497	237.70	326.20	484	479	665	657	40.0	200	20.0	267-R
2	3.821	25	24.90	491	487	238.00	331.00	485	489	674	680	37.5	200	18.8	268-R
3	3.771	25	24.73	491	480	240.00	325.70	489	500	664	679	35.0	200	17.5	269-R
4	3.809	25	24.86	491	485	239.00	335.00	487	493	682	691	32.5	200	16.3	270-R
5	3.825	25	24.91	491	487	241.20	340.20	491	495	693	699	35.0	200	17.5	271-R
6	3.834	25	24.94	491	488	231.20	329.20	471	474	671	675	40.0	200	20.0	272-R
7	3.817	25	24.88	491	486	227.70	318.00	464	469	648	654	37.5	200	18.8	273-R
8	3.817	25	24.88	491	486	228.50	324.20	465	470	660	667	37.5	200	18.8	274-R
9	3.817	25	24.88	491	486	225.20	319.50	459	464	651	658	35.0	200	17.5	275-R
10	3.831	25	24.93	491	488	222.20	319.20	453	456	650	655	35.0	200	17.5	276-R

**BEND TEST:**

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

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

Sheikhoo Steel

Test Performed  
By:

Dr. /Engr. Asad Ali Gillani

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

Client Reference: Nil Dated : 16-07-2023  
 SOM Lab Ref: CED/SOM/2589(Page-1d/1) Dated : 18-07-2023  
 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.842	25	24.95	491	489	229.20	331.50	467	469	675	678	37.5	200	18.8	277-R
2	3.848	25	24.98	491	490	227.70	325.50	464	465	663	665	37.5	200	18.8	278-R
3	3.827	25	24.91	491	488	226.50	321.50	461	465	655	660	35.0	200	17.5	279-R
4	3.821	25	24.90	491	487	233.70	325.70	476	481	664	670	37.5	200	18.8	280-R
5	3.840	25	24.96	491	489	234.70	326.20	478	480	665	667	30.0	200	15.0	281-R
6	3.852	25	25.00	491	491	221.20	328.20	451	451	669	669	37.5	200	18.8	282-R
7	3.835	25	24.94	491	488	229.20	328.50	467	470	669	673	37.5	200	18.8	283-R
8	3.846	25	24.98	491	490	227.50	321.50	463	465	655	657	35.0	200	17.5	284-R
9	3.835	25	24.94	491	489	230.20	330.50	469	472	673	677	35.0	200	17.5	285-R
10	3.827	25	24.91	491	487	224.20	317.20	457	460	646	651	32.5	75	43.3	286-R

**BEND TEST:**

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

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

Sheikhoo Steel Test Performed By: Dr. /Engr. Asad Ali Gillani  
 Director Projects,Sheikhoo Sugar Mills (Steel Div),Anwar Abad Kot Addu,Muzaffargarh.

Client Reference: Nil

Dated : 16-07-2023

SOM Lab Ref: CED/SOM/2589(Page-1e/1)

Dated : 18-07-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 m

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	m	%	
1	3.815	25	24.88	491	486	232.50	327.00	474	479	666	673	37.5	200	18.8	287-R
2	3.830	25	24.93	491	488	234.50	318.50	478	481	649	653	35.0	200	17.5	288-R
3	3.844	25	24.97	491	490	236.50	329.20	482	483	671	673	35.0	200	17.5	289-R
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**BEND TEST:**

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

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

Sheikhoo Steel

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

Chief Technical Officer, Sheikhoo Sugar Mills (Steel Div) Anwar Abad Kot Addu, Muzaffargarh.

Client Reference: Nil

Dated: 07-07-2023

Test: Tension Test & Bend Test  
inc

Gauge Length: 8 h

SOM Lab

Ref: 2531 (Page-1a/1)

Dated: 10-07-2023

Test Specification: ASTM-A-615

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.655	4	0.494	0.20	0.192	6.65	8.61	73290	76350	94990	98940	1.10	8.0	13.8	55-R
2	0.663	4	0.498	0.20	0.195	6.65	8.74	73290	75170	96340	98810	1.10	8.0	13.8	56-R
3	0.659	4	0.497	0.20	0.194	6.60	8.87	72730	74980	97800	100820	1.00	8.0	12.5	58-R
4	0.671	4	0.501	0.20	0.197	6.83	9.04	75320	76460	99710	101230	1.10	8.0	13.8	86-R
5	0.660	4	0.497	0.20	0.194	6.85	8.87	75540	77880	97800	100820	1.20	8.0	15.0	134-R
6	0.649	4	0.493	0.20	0.191	6.70	8.66	73850	77330	95550	100050	1.30	8.0	16.3	081-R
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

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

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

Engr. Major Zia-UI-Islam ®

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

PD GCC, Overseas Const. Co. (Project Gulberg City Centre, Lahore) (AK Smelters and Re-Roller)

Client Reference: OCC/Steel/45

Dated: 10-07-2023

Test: Tension Test & Bend Test  
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2532 (Page-1/2)

Dated: 10-07-2023

ASTM-A-615

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	1.471	6	0.742	0.44	0.432	13.02	20.71	65250	66460	103830	105750	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

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

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

PD GCC,Overseas Const.Co.(Project Gulberg City Centre, Lahore)(AK Smelters and Re-Roller)

Client Reference: OCC/Steel/44

Dated: 10-07-2023

Test: Tension Test & Bend Test  
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2532 (Page-2/2)

Dated: 10-07-2023

ASTM-A-615  
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	2.669	8	0.999	0.79	0.784	23.41	40.18	65370	65870	112180	113040	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

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

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

Shaukat Cement Steel Corporation  
Mingora Swat

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

Client Reference: Nil  
Dated: 10-07-2023

SOM Lab  
Ref: 2534 (Page-1b/1)  
Dated: 10-07-2023

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

Test Specification: ASTM-A-615  
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 <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	13.86	18.45	69490	69650	92480	92690	1.60	8.0	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**BEND TEST:**

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

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



Mr. Ijaz  
Contractor Mr. Muhammad Ijaz DHA Multan

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

Client Reference: Nil

SOM Lab

Ref: 2536 (Page-1/1)

Dated: 19-06-2023

Dated: 10-07-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.495	6	0.748	0.44	0.439	14.02	18.60	70260	70420	93250	93460	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**BEND TEST:**

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

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

Munshi Siddique Iron Store  
Multan Road Chowk Azam

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

Client Reference: Nil

SOM Lab

Ref: 2539 (Page-1b/1)

Dated: 10-07-2023

Dated: 10-07-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.476	6	0.743	0.44	0.434	13.43	18.62	67290	68220	93350	94640	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**BEND TEST:**

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

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

KHEMANI IRON STORE  
Pano Aqil

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

Client Reference: Nil

SOM Lab

Ref: 2541 (Page-1b/1)

Dated: 10-07-2023

Dated: 10-07-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.497	6	0.748	0.44	0.440	13.91	18.88	69750	69750	94630	94630	1.60	8.0	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**BEND TEST:**

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

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

Muhammad Saleem,G.M

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

Professional Const.Services Lahore.(SICAS School Johar Town Lahore)

Client Reference: PCS/22/Eng/70-B

SOM Lab

Ref: 2542 (Page-1/3)

Dated: 10-07-2023

Dated: 10-07-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	0.655	4	0.494	0.20	0.192	6.68	8.63	73630	76700	95210	99180	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**BEND TEST:**

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

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

Muhammad Saleem,G.M

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

Professional Const.Services Lahore.(SICAS School Johar Town Lahore)

Client Reference: PCS/22/Eng/70-C

SOM Lab

Ref: 2542 (Page-2/3)

Dated: 10-07-2023

Dated: 10-07-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	1.835	6	0.828	0.44	0.539	14.88	19.93	74600	60900	99890	81550	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

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

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

Muhammad Saleem,G.M

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

Professional Const.Services Lahore.(SICAS School Johar Town Lahore)

Client Reference: PCS/22/Eng/70-D

SOM Lab

Ref: 2542 (Page-3/3)

Dated: 10-07-2023

Dated: 10-07-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	3.259	8	1.104	0.79	0.958	25.74	34.07	71860	59260	95110	78430	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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**BEND TEST:**

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

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

Engg Consultancy Services

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

ECSP BGNU Nankana Sahib.(Const Of Baba Guru Nanak University, Nankana Sahib)

Client Reference: ECSP/BGNU/52

SOM Lab

Ref: 2543 (Page-1/1)

Dated: 31-05-2023

Dated: 10-07-2023

Test: Tension Test & Bend Test  
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (SJ  
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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.621	8	0.990	0.79	0.770	26.96	35.73	75270	77230	99750	102340	1.50	8.00	18.8	
2	2.671	8	1.000	0.79	0.785	26.63	34.22	74330	74810	95530	96140	1.30	8.00	16.3	
3	1.504	6	0.750	0.44	0.442	15.87	18.91	79560	79200	94780	94350	1.20	8.00	15.0	
4	1.498	6	0.748	0.44	0.440	14.85	18.20	74450	74450	91210	91210	1.30	8.00	16.3	
5	0.667	4	0.500	0.20	0.196	6.68	8.61	73630	75130	94990	96930	1.20	8.00	15.0	
6	0.667	4	0.500	0.20	0.196	6.68	8.53	73630	75130	94090	96010	1.10	8.00	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:- Only Nine Samples Received and Tested</b>
# 6	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)

Test Performed by: Dr. Irfan UI Hassan

Ghulam Mujtaba  
Farm Mechanics Pvt Ltd.  
Naaz Town Near Valencia Town Lahore.

Client Reference No.: Nil  
SOM Lab Ref: CED/SOM/2530 (Page 1/1)  
Test Type: Load Test  
Sample Type: Chain Link

Dated: 10-07-2023

Dated: 10-07-2023

### Load Test Results

Sample No.	Sample Type	Ultimate Load (kN)	Ultimate Load (Kg)	Marks
1	Chain Link (Material –I)	41.2	4200	Original Sample
2	Chain Link (Material –II)	15.5	1580	-
3	Chain Link (Material –III)	15.0	1530	-
4	Chain Link (Material –IV)	19.5	1990	-

Witness by: Asrar Azam (Production Officer, Lucky Core Industries)

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



