

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 : 07-09-2023

SOM Lab Ref: CED/SOM/2853(Page-1a/1)

Dated : 13-09-2023

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	0.874	12	11.89	113	111	57.20	76.20	506	516	674	687	32.5	200	16.3	226-S
2	0.872	12	11.89	113	111	53.50	73.00	473	482	645	658	37.5	200	18.8	227-S
3	0.870	12	11.88	113	111	53.50	73.00	473	483	645	659	37.5	200	18.8	228-S
4	0.869	12	11.87	113	111	53.00	72.70	469	479	643	657	40.0	200	20.0	229-S
5	0.873	12	11.90	113	111	52.70	73.00	466	475	645	657	40.0	200	20.0	230-S
6	0.876	12	11.92	113	112	55.20	75.50	488	495	668	677	35.0	200	17.5	231-S
7	0.881	12	11.95	113	112	52.70	74.00	466	470	654	660	37.5	200	18.8	232-S
8	0.875	12	11.91	113	111	54.70	73.00	484	491	645	655	35.0	200	17.5	233-S
9	0.869	12	11.87	113	111	55.50	73.00	491	502	645	660	37.5	200	18.8	234-S
10	0.876	12	11.92	113	112	53.20	74.50	470	477	659	668	35.0	200	17.5	235-S

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

Client Reference: Nil Dated : 07-09-2023

SOM Lab Ref: CED/SOM/2853(Page-1b/1) Dated : 13-09-2023

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

Sample Deformed Bar (Sheikhoo Type: 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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.880	12	11.94	113	112	55.00	74.50	486	492	659	666	32.5	200	16.3	236-S
2	0.882	12	11.96	113	112	56.00	75.20	495	499	665	670	35.0	200	17.5	237-S
3	0.870	12	11.88	113	111	57.00	75.70	504	515	669	683	32.5	200	16.3	238-S
4	0.877	12	11.93	113	112	55.70	78.00	492	499	690	699	37.5	200	18.8	239-S
5	0.865	12	11.85	113	110	55.00	77.70	486	500	687	706	35.0	200	17.5	240-S
6	0.870	12	11.88	113	111	53.00	74.00	469	479	654	668	32.5	200	16.3	241-S
7	0.870	12	11.88	113	111	52.70	74.70	466	476	660	674	35.0	200	17.5	242-S
8	0.872	12	11.89	113	111	52.50	73.70	464	473	652	664	35.0	200	17.5	243-S
9	0.872	12	11.89	113	111	57.20	78.00	506	515	690	703	32.5	200	16.3	244-S
10	0.870	12	11.88	113	111	56.70	78.50	501	512	694	708	32.5	200	16.3	245-S

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

Client Reference: Nil Dated : 07-09-2023
 SOM Lab Ref: CED/SOM/2853(Page-1c/1) Dated : 13-09-2023
 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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.879	12	11.94	113	112	53.20	74.50	470	475	659	666	37.5	200	18.8	246-S
2	0.881	12	11.95	113	112	55.00	76.00	486	491	672	678	37.5	200	18.8	247-S
3	0.879	12	11.94	113	112	55.00	74.00	486	492	654	662	32.5	200	16.3	248-S
4	0.879	12	11.94	113	112	55.00	74.20	486	492	656	663	32.5	200	16.3	249-S
5	0.875	12	11.91	113	111	55.00	73.70	486	494	652	662	32.5	200	16.3	250-S
6	0.874	12	11.91	113	111	56.20	75.20	497	505	665	676	30.0	200	15.0	251-S
7	0.872	12	11.89	113	111	55.70	75.00	492	502	663	676	30.0	200	15.0	252-S
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	Note:- Only Seven 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. Asad Ali Gillani
 Director Projects, Sheikhoo Sugar Mills (Steel Div), Anwar Abad Kot Addu, Muzaffargarh.

Client Reference: Nil Dated : 10-09-2023
 SOM Lab Ref: CED/SOM/2854(Page-1a/1) Dated : 13-09-2023
 Test: Tension Test & Bend Test Test Specification: ASTM-A 615
 Sample Deformed Bar (Sheikhoo Type: 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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.875	12	11.94	113	112	56.20	77.20	497	502	683	690	35.0	200	17.5	253-S
2	0.869	12	11.87	113	111	56.20	76.70	497	508	678	693	37.5	200	18.8	254-S
3	0.869	12	11.87	113	111	57.00	76.50	504	515	676	692	35.0	200	17.5	255-S
4	0.872	12	11.89	113	111	56.00	76.70	495	505	678	691	32.5	200	16.3	256-S
5	0.877	12	11.93	113	112	57.50	77.20	508	515	683	691	30.0	200	15.0	257-S
6	0.875	12	11.92	113	112	53.00	75.20	469	476	665	675	32.5	200	16.3	258-S
7	0.877	12	11.93	113	112	52.70	74.50	466	472	659	667	35.0	200	17.5	259-S
8	0.870	12	11.88	113	111	52.70	74.70	466	476	660	674	32.5	200	16.3	260-S
9	0.871	12	11.89	113	111	57.00	74.00	504	514	654	667	32.5	200	16.3	261-S
10	0.874	12	11.91	113	111	55.20	75.50	488	496	668	679	35.0	200	17.5	262-S

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. Asad Ali Gillani

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

Client Reference: Nil

Dated : 10-09-2023

SOM Lab Ref: CED/SOM/2854(Page-1b/1)

Dated : 13-09-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Deformed Bar (Sheikhoo Steel)
Type: 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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.878	12	11.94	113	112	54.20	77.50	479	484	685	692	32.5	200	16.3	263-S
2	0.877	12	11.93	113	112	53.70	74.50	475	481	659	667	35.0	200	17.5	264-S
3	0.877	12	11.93	113	112	52.70	73.70	466	472	652	660	37.5	200	18.8	265-S
4	0.881	12	11.96	113	112	53.70	75.50	475	479	668	673	35.0	200	17.5	266-S
5	0.875	12	11.92	113	112	53.00	75.50	469	476	668	678	37.5	200	18.8	267-S
6	0.870	12	11.88	113	111	56.70	74.20	501	512	656	670	32.5	200	16.3	268-S
7	0.877	12	11.93	113	112	56.20	74.00	497	504	654	663	30.0	200	15.0	269-S
8	0.877	12	11.93	113	112	53.20	73.20	470	476	647	655	30.0	200	15.0	270-S
9	0.875	12	11.91	113	111	54.70	74.20	484	491	656	666	35.0	200	17.5	271-S
10	0.875	12	11.91	113	111	53.00	74.70	469	476	660	671	35.0	200	17.5	272-S

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

Client Reference: Nil Dated : 10-09-2023
 SOM Lab Ref: CED/SOM/2854(Page-1c/1) Dated : 13-09-2023
 Test: Tension Test & Bend Test Test Specification: ASTM-A 615
 Sample Deformed Bar (Sheikhoo Type: 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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.883	12	12.00	113	113	53.50	75.70	473	474	669	670	32.5	200	16.3	273-S
2	0.883	12	11.97	113	112	53.20	75.70	470	474	669	674	35.0	200	17.5	274-S
3	0.881	12	11.95	113	112	58.20	77.70	515	519	687	693	37.5	200	18.8	275-S
4	0.875	12	11.91	113	111	56.70	75.50	501	509	668	678	35.0	200	17.5	276-S
5	0.886	12	11.99	113	113	55.70	74.50	492	494	659	660	35.0	200	17.5	277-S
6	0.879	12	11.94	113	112	53.50	73.50	473	478	650	657	32.5	200	16.3	278-S
7	0.884	12	11.97	113	113	54.00	78.20	477	480	691	695	35.0	200	17.5	279-S
8	0.879	12	11.94	113	112	57.70	76.50	510	516	676	683	32.5	200	16.3	270-S
9	0.884	12	11.97	113	113	52.70	74.50	466	469	659	662	30.0	200	15.0	281-S
10	0.885	12	11.98	113	113	54.20	75.00	479	481	663	665	35.0	200	17.5	282-S

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

Client Reference: Nil Dated : 10-09-2023
 SOM Lab Ref: CED/SOM/2854(Page-1d/1) Dated : 13-09-2023
 Test: Tension Test & Bend Test Test Specification: ASTM-A 615
 Sample Deformed Bar (Sheikhoo Type: 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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.875	12	11.89	113	111	57.70	76.50	510	520	676	690	32.5	200	16.3	283-S
2	0.881	12	11.96	113	112	54.70	73.20	484	488	647	653	37.5	200	18.8	284-S
3	0.879	12	11.94	113	112	55.00	74.50	486	492	659	666	35.0	200	17.5	285-S
4	0.877	12	11.93	113	112	56.50	75.00	500	506	663	672	35.0	200	17.5	286-S
5	0.884	12	11.97	113	113	55.70	75.10	492	495	664	668	35.0	200	17.5	287-S
6	0.882	12	11.96	113	112	57.00	76.00	504	508	672	677	37.5	200	18.8	288-S
7	0.877	12	11.93	113	112	57.20	76.20	506	512	674	683	35.0	200	17.5	289-S
8	0.875	12	11.92	113	112	55.20	73.00	488	495	645	655	27.5	200	13.8	290-S
9	0.879	12	11.94	113	112	55.70	74.50	492	498	659	666	30.0	200	15.0	291-S
10	0.884	12	11.97	113	113	56.70	75.20	501	504	665	669	35.0	200	17.5	292-S

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

Client Reference: Nil Dated : 10-09-2023
 SOM Lab Ref: CED/SOM/2854(Page-1e/1) Dated : 13-09-2023
 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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.880	12	11.94	113	112	56.00	75.50	495	500	668	675	40.0	200	20.0	293-S
2	0.882	12	11.96	113	112	57.50	75.50	508	512	668	672	35.0	200	17.5	294-S
3	0.877	12	11.93	113	112	56.50	75.20	500	506	665	674	40.0	200	20.0	295-S
4	0.879	12	11.94	113	112	56.00	76.00	495	500	672	679	40.0	200	20.0	296-S
5	0.882	12	11.96	113	112	54.20	75.70	479	483	669	674	35.0	200	17.5	297-S
6	0.883	12	11.96	113	112	52.50	73.70	464	467	652	656	32.5	200	16.3	298-S
7	0.884	12	11.97	113	113	52.70	74.80	466	469	661	665	32.5	200	16.3	299-S
8	0.888	12	12.00	113	113	54.50	75.50	482	482	668	668	35.0	200	17.5	300-S
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Sufyan Uppal, PE

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

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

SOM Lab

Client Reference: ST/UET/12092023/0008

Ref: 2849 (Page-1/1)

Dated: 12-09-2023

Dated: 13-09-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

inc

Deformed Bar (SJ

Gauge Length: 8 h

Sample Type:

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	2.66 2	8	0.99 8	0.7 9	0.78 2	27.01	35.27	75420	76190	98470	99470	1.6 0	8. 0	20. 0	
2	2.66 2	8	0.99 8	0.7 9	0.78 2	26.81	34.86	74850	75610	97330	98320	1.5 0	8. 0	18. 8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 8	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

Assistant Director (Technical)
Anti-Corruption Estb.Multan Region.(Estb Of Govt.Associates Colege For Girls
Dokota,Mailsi,Vehari)

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

Client Reference: ACE.MR-(Eng-244/23)/6157

Dated: 07-09-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2850 (Page-1/1)

Dated: 13-09-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.66 8	8	0.99 9	0.7 9	0.78 4	28.46	35.19	79460	80060	98240	98990	1.3 0	8. 0	16. 3	
2	1.48 4	6	0.74 5	0.4 4	0.43 6	15.85	18.98	79450	80180	95140	96010	1.2 0	8. 0	15. 0	
3	0.66 6	4	0.50 0	0.2 0	0.19 6	7.51	8.89	82850	84540	98020	10002 0	1.1 0	8. 0	13. 8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
# 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

Muhammad Awais, RE

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

Nespak Gojra.(Const.Of Railway Underpass Gojra, Distt Toba Tek Singh)

SOM Lab

Client Reference: P4595/23/MA/04

Ref: 2851 (Page-1/1)

Dated: 26-06-2023

Dated: 13-09-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

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	1.512	6	0.752	0.444	0.444	15.65	19.34	78430	77730	96930	96060	1.30	8.0	16.3	111
2	1.607	6	0.775	0.442	0.472	18.76	21.27	94020	87640	106640	99410	1.20	8.0	15.0	222
3	1.494	6	0.748	0.439	0.439	15.49	18.62	77670	77840	93350	93560	1.30	8.0	16.3	333
4	1.446	6	0.736	0.425	0.425	14.78	18.67	74090	76700	93610	96910	1.30	8.0	16.3	444
5	1.460	6	0.739	0.429	0.429	15.39	19.22	77160	79130	96320	98780	1.10	8.0	13.8	555
6	1.489	6	0.747	0.438	0.438	15.29	19.44	76640	76990	97440	97880	1.20	8.0	15.0	358
7	1.467	6	0.741	0.431	0.431	15.39	19.44	77160	78770	97440	99470	1.20	8.0	15.0	359
8	1.577	6	0.768	0.463	0.463	19.22	22.34	96320	91530	112000	106440	1.00	8.0	12.5	189
9	1.607	6	0.775	0.472	0.472	19.13	22.22	95910	89400	111390	103840	1.40	8.0	17.5	190
10	1.570	6	0.766	0.461	0.461	18.65	21.83	93510	89250	109450	104460	1.10	8.0	13.8	190

Witnessed By: Syed Bilal Ghazi (Chief Materials Specialist, NESPAK)

BEND TEST:

Sr.# (1-10)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twenty Samples Received and Tested

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

Muhammad Saad-Ur-Rehman
Model Town, Lahore.

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

Client Reference: Nil
Dated: 13-09-2023

SOM Lab
Ref: 2852 (Page-1/1)
Dated: 13-09-2023

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

Test Specification: ASTM-A-615
Deformed
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	0.671	4	0.501	0.20	0.197	6.63	9.04	73070	74180	99710	101230	1.10	8.0	13.8	
2	0.673	4	0.502	0.20	0.198	6.60	9.02	72730	73470	99480	100490	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Executive Engineer
Road Const.Div Gujranwala.(Const. Of Dual Carriageway From G.T Rd To Lahore-Sialkot Motorway)

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

Client Reference: 1500 CB

SOM Lab

Ref: 2855 (Page-1a/1)

Dated: 28-05-2023

Dated: 13-09-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615
Deformed

Gauge Length: 8 h

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	2.578	8	0.982	0.79	0.758	24.72	32.74	69010	71930	91410	95270	1.50	8.0	18.8	
2	2.564	8	0.980	0.79	0.754	23.70	30.89	66170	69330	86230	90350	1.60	8.0	20.0	
3	2.556	8	0.978	0.79	0.751	24.99	33.00	69780	73400	92120	96900	1.40	8.0	17.5	
4	2.557	8	0.978	0.79	0.751	23.31	30.75	65090	68470	85860	90320	1.50	8.0	18.8	
5	1.493	6	0.748	0.44	0.439	15.01	18.96	75210	75390	95040	95250	1.40	8.0	17.5	
6	1.628	6	0.780	0.44	0.478	15.26	20.54	76490	70410	102960	94770	1.30	8.0	16.3	
7	1.490	6	0.747	0.44	0.438	14.22	18.35	71280	71610	91970	92390	1.50	8.0	18.8	
8	1.487	6	0.746	0.44	0.437	14.80	18.76	74190	74700	94020	94660	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 8	Sample bend through 180 degrees Satisfactorily without any crack	
# 6	Sample bend through 180 degrees Satisfactorily without any crack	
# 6	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

Executive Engineer

Road Const.Div Gujranwala.(Const. Of Dual Carriageway From G.T Rd To Lahore-Sialkot Motorway)

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

Client Reference: 1500 CB

Dated: 28-05-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2855 (Page-1b/1)

Dated: 13-09-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.036	5	0.622	0.31	0.304	10.30	13.05	73250	74690	92830	94660	1.40	8.00	17.5	
2	1.026	5	0.620	0.31	0.302	10.16	13.37	72310	74220	95150	97670	1.40	8.00	17.5	
3	1.027	5	0.620	0.31	0.302	9.96	13.17	70860	72730	93700	96180	1.20	8.00	15.0	
4	1.028	5	0.620	0.31	0.302	10.32	13.27	73390	75340	94420	96930	1.30	8.00	16.3	
5	0.655	4	0.494	0.20	0.192	6.22	8.02	68570	71430	88470	92150	1.20	8.00	15.0	
6	0.657	4	0.496	0.20	0.193	6.14	8.02	67670	70130	88470	91680	1.30	8.00	16.3	
7	0.657	4	0.496	0.20	0.193	6.12	8.05	67450	69890	88800	92030	1.10	8.00	13.8	
8	0.657	4	0.496	0.20	0.193	6.12	8.07	67450	69890	89030	92260	1.20	8.00	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 5	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
# 5	Sample bend through 180 degrees Satisfactorily without any crack	
# 4	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

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

SOM Lab

Ref: 2856 (Page-1a/1)

Dated: 04-09-2023

Dated: 13-09-2023

Test: Tension Test Test

Test Specification: ASTM-A-615

Gauge Length: 8 h inc

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	0.667	4	0.500	0.20	0.196	6.54	9.04	72170	73640	99710	101740	1.30	8.00	16.3	168-S
2	0.672	4	0.501	0.20	0.197	6.57	9.12	72510	73610	100610	102140	1.50	8.00	18.8	169-S
3	0.671	4	0.501	0.20	0.197	6.54	8.97	72170	73270	98920	100430	1.40	8.00	17.5	170-S
4	0.670	4	0.501	0.20	0.197	6.29	8.74	69360	70410	96340	97800	1.50	8.00	18.8	171-S
5	0.661	4	0.497	0.20	0.194	6.37	8.82	70260	72430	97230	100240	1.30	8.00	16.3	172-S
6	0.659	4	0.497	0.20	0.194	6.42	8.82	70820	73010	97230	100240	1.30	8.00	16.3	173-S
7	0.664	4	0.498	0.20	0.195	6.57	8.63	72510	74360	95210	97650	1.40	8.00	17.5	174-S
8	0.667	4	0.500	0.20	0.196	6.52	8.63	71940	73410	95210	97150	1.30	8.00	16.3	175-S
9	0.662	4	0.498	0.20	0.195	6.65	8.82	73290	75170	97230	99730	1.30	8.00	16.3	176-S
10	0.666	4	0.500	0.20	0.196	6.60	8.51	72730	74210	93860	95780	1.20	8.00	15.0	177-S

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. Asad Ali Gillani

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

Client Reference: Nil

SOM Lab

Ref: 2856 (Page-1b/1)

Dated: 04-09-2023

Dated: 13-09-2023

Test: Tension Test Test

Test Specification: ASTM-A-615

Gauge Length: 8 h inc

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	0.671	4	0.501	0.20	0.197	6.52	8.51	71940	73040	93860	95290	1.30	8.00	16.3	178-S
2	0.669	4	0.501	0.20	0.197	6.54	8.72	72170	73270	96110	97570	1.40	8.00	17.5	179-S
3	0.671	4	0.501	0.20	0.197	6.42	8.61	70820	71900	94990	96430	1.10	8.00	13.8	180-S
4	0.671	4	0.501	0.20	0.197	6.47	8.77	71380	72470	96670	98140	1.30	8.00	16.3	181-S
5	0.673	4	0.502	0.20	0.198	6.70	8.99	73850	74600	99150	100150	1.20	8.00	15.0	182-S
6	0.670	4	0.501	0.20	0.197	6.70	8.97	73850	74980	98920	100430	1.40	8.00	17.5	183-S
7	0.668	4	0.500	0.20	0.196	6.85	9.30	75540	77080	102520	104610	1.40	8.00	17.5	184-S
8	0.668	4	0.500	0.20	0.196	6.95	9.30	76660	78230	102520	104610	1.00	8.00	12.5	185-S
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Ehsan-Ullah-Saad

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

PM Zaheer Associate (AR Developers).(Hareef Printing Press in J-Block Of Al-Rehman Garden)

SOM Lab

Client Reference: Z.A/A.R/35-23

Ref: 2857 (Page-1/1)

Dated: 13-09-2023

Dated: 13-09-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Mehboob 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	2.67 3	8	1.00 0	0.7 9	0.78 6	25.35	34.83	70780	71140	97240	97740	1.5 0	8. 0	18. 8	
2	1.48 2	6	0.74 5	0.4 4	0.43 6	14.22	18.86	71280	71930	94530	95390	1.3 0	8. 0	16. 3	
3	0.65 7	4	0.49 6	0.2 0	0.19 3	6.12	7.82	67450	69890	86220	89350	1.1 0	8. 0	13. 8	
4	0.65 5	4	0.49 4	0.2 0	0.19 2	6.88	8.53	75880	79040	94090	98010	1.1 0	8. 0	13. 8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Seven Samples Received and Tested
# 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

Executive Engineer

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

Highway Div Hafizabad.(Re-Const. Of Rd From Kaleke Tibba To Hafizabad Khanqah Dogran Road)

Client Reference: 199/MCB.

SOM Lab

Ref: 2858 (Page-1/1)

Dated: 10-08-2023

Dated: 13-09-2023

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.68 5	8	1.00 2	0.7 9	0.78 9	24.67	33.97	68870	68960	94820	94940	1.6 0	8. 0	20. 0	
2	2.69 7	8	1.00 5	0.7 9	0.79 3	24.77	33.94	69160	68890	94770	94410	1.5 0	8. 0	18. 8	
3	1.49 9	6	0.74 9	0.4 4	0.44 1	13.46	19.01	67450	67290	95290	95080	1.4 0	8. 0	17. 5	
4	1.49 7	6	0.74 8	0.4 4	0.44 0	13.58	19.01	68060	68060	95290	95290	1.3 0	8. 0	16. 3	
5	0.65 9	4	0.49 7	0.2 0	0.19 4	6.47	8.79	71380	73590	96900	99890	1.1 0	8. 0	13. 8	
6	0.66 1	4	0.49 7	0.2 0	0.19 4	6.52	8.82	71940	74170	97230	10024 0	1.2 0	8. 0	15. 0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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