

Engr. Zaheer Ahmad Baber

Test Performed
By:

Dr. /Engr. Irfan UI Hassan

PM-Tech Sitara Developers.(Const Of Flyover At Sitara Green City)

Client Reference: SGC/UIA/51

Dated : 11-07-2023

SOM Lab Ref: CED/SOM/2548(Page-1/1)

Dated : 12-07-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Faizan 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	mm	%	
1	3.965	25	25.36	491	505	244.00	332.50	497	484	677	659	37.5	200	18.8	
2	4.006	25	25.49	491	510	247.00	332.70	503	484	678	652	35.0	200	17.5	
3	2.400	20	19.73	314	306	161.00	215.70	512	527	687	706	30.0	200	15.0	
4	2.402	20	19.74	314	306	160.00	215.70	509	523	687	705	32.5	200	16.3	
5	1.555	16	15.88	201	198	105.20	131.70	523	532	655	665	30.0	200	15.0	
6	1.559	16	15.90	201	199	105.70	131.20	526	533	653	661	30.0	200	15.0	
7	0.996	12	12.71	113	127	63.50	83.50	561	501	738	659	27.5	200	13.8	
8	0.998	12	12.72	113	127	65.00	83.20	575	512	736	655	30.0	200	15.0	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twelve Samples Received and Tested
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: Please always confirm the results of above report on web www.uet-civil.edu.pk

Muhammad Arfat,RE

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

ACE-Arts (Consultants) UAEET Sambrial,Sialkot.(Estb Of UAEET Sambrial,Sialkot)

Client Reference: ER/UAEET/ACE/ME/2023/26

SOM Lab

Ref: 2546 (Page-1/1)

Dated: 11-07-2023

Dated: 12-07-2023

Test: Tension Test & Bend Test
inc

Test Specification: ASTM-A-615
Deformed Bar (FF
Steel)

Gauge Length: 8 h

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	2.624	8	0.991	0.79	0.771	24.74	33.76	69070	70770	94250	96580	1.60	8.0	20.0	H # 1250
2	2.730	8	1.011	0.79	0.802	27.54	36.62	76900	75740	102220	100690	1.20	8.0	15.0	H # 1250
3	2.610	8	0.988	0.79	0.767	24.52	33.56	68440	70500	93680	96490	1.40	8.0	17.5	H # 2480
4	2.579	8	0.982	0.79	0.758	24.08	33.25	67220	70060	92830	96750	1.30	8.0	16.3	H # 2480
5	2.635	8	0.993	0.79	0.774	24.84	34.93	69350	70790	97530	99540	1.20	8.0	15.0	H # 2482
6	2.740	8	1.012	0.79	0.805	28.15	37.69	78600	77140	105210	103250	1.10	8.0	13.8	H # 2482
7	0.674	4	0.502	0.20	0.198	6.52	8.58	71940	72670	94650	95610	1.00	8.0	12.5	H # 188
8	0.673	4	0.502	0.20	0.198	6.42	8.72	70820	71540	96110	97080	1.20	8.0	15.0	H # 188
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: M.Umair (ME ACE)

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	
# 8	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 Project, Sheikhoo Sugar Mills (Steel Div), Anwar Abad Kot Addu, Muzaffargarh.

Client Reference: Nil

Dated: 11-07-2023

Test: Tension Test Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2547 (Page-2/3)

Dated: 12-07-2023

ASTM-A-615

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	1.47 2	6	0.74 3	0.4 4	0.43 3	14.34	19.27	71890	73050	96570	98130	1.2 0	8. 0	15. 0	H # 200-R
2	1.47 2	6	0.74 3	0.4 4	0.43 3	14.83	20.05	74350	75550	10050 0	10213 0	1.3 0	8. 0	16. 3	H # 201-R
3	1.47 4	6	0.74 3	0.4 4	0.43 3	14.88	19.80	74600	75810	99230	10083 0	1.2 0	8. 0	15. 0	H # 202-R
4	1.48 6	6	0.74 6	0.4 4	0.43 7	14.04	19.57	70360	70840	98100	98780	1.5 0	8. 0	18. 8	H # 203-R
5	1.48 5	6	0.74 5	0.4 4	0.43 6	14.09	19.18	70620	71260	96160	97040	1.2 0	8. 0	15. 0	H # 204-R
6	1.47 5	6	0.74 3	0.4 4	0.43 3	14.17	19.37	71020	72170	97080	98650	1.2 0	8. 0	15. 0	H # 205-R
7	1.47 3	6	0.74 3	0.4 4	0.43 3	14.50	20.00	72660	73830	10025 0	10187 0	1.2 0	8. 0	15. 0	H # 207-R
8	1.48 9	6	0.74 7	0.4 4	0.43 8	14.78	19.95	74090	74430	99990	10045 0	1.3 0	8. 0	16. 3	H # 206-R
9	1.46 3	6	0.74 0	0.4 4	0.43 0	14.70	19.62	73680	75390	98360	10065 0	1.5 0	8. 0	18. 8	H # 208-R
10	1.50 3	6	0.75 0	0.4 4	0.44 2	151.3 8	20.15	75874 0	755300	10102 0	10056 0	1.3 0	8. 0	16. 3	H # 185-R

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

Client Reference: Nil

SOM Lab

Ref: 2547 (Page-3/3)

Dated: 11-07-2023

Dated: 12-07-2023

Test: Tension Test 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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.48 2	6	0.74 5	0.4 4	0.43 6	14.48	19.80	72560	73220	99230	10014 0	1.3 0	8. 0	16. 3	H # 190-R
2	1.47 2	6	0.74 3	0.4 4	0.43 3	14.34	19.39	71890	73050	97180	98750	1.5 0	8. 0	18. 8	H # 191-R
3	1.48 2	6	0.74 5	0.4 4	0.43 6	14.24	19.90	71380	72040	99740	10065 0	1.4 0	8. 0	17. 5	H # 192-R
4	1.49 7	6	0.74 8	0.4 4	0.44 0	15.01	1.89	75210	75210	9460	9460	1.2 0	8. 0	15. 0	H # 193-R
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	Note:- Only Four 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 Project, Sheikhoo Sugar Mills (Steel Div), Anwar Abad Kot Addu, Muzaffargarh.

Client Reference: Nil

Dated: 11-07-2023

Test: Tension Test Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2547 (Page-1/3)

Dated: 12-07-2023

ASTM-A-615

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	1.491	6	0.747	0.44	0.438	15.36	20.36	77000	77350	102040	102500	1.30	8.0	16.3	H # 186-R
2	1.479	6	0.744	0.44	0.435	14.65	19.72	73430	74270	98870	100010	1.30	8.0	16.3	H # 188-R
3	1.482	6	0.745	0.44	0.436	14.73	19.52	73830	74510	97850	98750	1.40	8.0	17.5	H # 187-R
4	1.478	6	0.743	0.44	0.434	14.37	19.39	72050	73040	97180	98530	1.30	8.0	16.3	H # 189-R
5	1.477	6	0.743	0.44	0.434	14.02	19.16	70260	71230	96060	97390	1.30	8.0	16.3	H # 196-R
6	1.460	6	0.739	0.44	0.429	14.85	19.78	74450	76360	99130	101670	1.40	8.0	17.5	H # 197-R
7	1.467	6	0.741	0.44	0.431	14.22	19.62	71280	72770	98360	100410	1.30	8.0	16.3	H # 195-R
8	1.478	6	0.743	0.44	0.434	14.37	19.78	72050	73040	99130	100500	1.10	8.0	13.8	H # 194-R
9	1.485	6	0.745	0.44	0.436	13.53	19.03	67810	68430	95400	96270	1.40	8.0	17.5	H # 198-R
10	1.480	6	0.744	0.44	0.435	14.65	19.57	73430	74270	98100	99230	1.20	8.0	15.0	H # 199-R

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