

Hashir
Traders
Muzaffargarh

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

Client Reference: Nil

Dated : 18-07-2023

SOM Lab Ref: CED/SOM/2588(Page-1a/10)

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.992	12	12.67	113	126	61.20	86.50	541	486	765	687	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

12mm	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

Karachi Iron Store
Khairpur Mir` s

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

Client Reference: Nil

Dated : 18-07-2023

SOM Lab Ref: CED/SOM/2588(Page-2a/10)

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.994	12	12.72	113	127	55.50	75.50	491	438	668	595	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

12mm	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

Zulfiqar Iron Store
Kot Addu

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

Client Reference: Nil

Dated : 18-07-2023

SOM Lab Ref: CED/SOM/2588(Page-3a/10)

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	1.593	16	16.08	201	203	99.20	130.20	493	489	648	642	32.5	200	16.3	
2	1.000	12	12.74	113	127	54.20	75.70	479	426	669	595	32.5	200	16.3	
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BEND TEST:

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

Quality Steel And Iron Dealer

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

Khan Pur

Client Reference: Nil

Dated :

18-07-2023

SOM Lab Ref: CED/SOM/2588(Page-4a/10)

Dated :

18-07-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length:

m
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	0.995	12	12.72	113	127	53.00	75.00	469	418	663	591	30.0	200	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

12mm	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

Khurram Traders
Gujrat

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

Client Reference: Nil

Dated : 18-07-2023

SOM Lab Ref: CED/SOM/2588(Page-5a/10)

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	3.89 2	25	25.1 3	491	496	239.5 0	324.20	488	483	660	654	32.5	200	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

25mm	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

Hafeez Iron store
Taunsa

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

Client Reference: Nil

Dated : 18-07-2023

SOM Lab Ref: CED/SOM/2588(Page-6a/10)

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.991	12	12.67	113	126	51.50	71.70	455	409	634	570	32.5	200	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

12mm	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

Khawaja Brothers
Building Material Store, Khangarh

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

Client Reference: Nil

Dated : 18-07-2023

SOM Lab Ref: CED/SOM/2588(Page-7a/10)

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.996	12	12.72	113	127	54.20	76.00	479	427	672	599	35.0	200	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

12mm	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

Khalid Iron store
Layyah

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

Client Reference: Nil

Dated : 18-07-2023

SOM Lab Ref: CED/SOM/2588(Page-8a/10)

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	3.810	25	24.85	491	485	260.00	334.50	530	537	681	690	35.0	200	17.5	
2	0.993	12	12.69	113	126	55.20	76.70	488	437	678	607	32.5	200	16.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Four Samples Received and Tested
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

Sattar Iron Store

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

Mianwali Peplan

Client Reference: Nil

Dated : 18-07-2023

SOM Lab Ref: CED/SOM/2588(Page-9a/10)

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 ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	1.557	16	15.88	201	198	93.50	126.70	465	473	630	640	35.0	200	17.5	
2	0.987	12	12.65	113	126	56.20	76.20	497	447	674	606	35.0	200	17.5	
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BEND TEST:

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

Madina Iron Store

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

DG Khan

Client Reference: Nil

Dated :

18-07-2023

SOM Lab Ref: CED/SOM/2588(Page-10a/10)

Dated :

18-07-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length:

m
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 m	%	
1	3.833	25	24.93	491	488	247.00	235.70	503	507	480	483	35.0	200	17.5	
2	1.580	16	16.01	201	201	101.50	134.20	505	505	667	667	40.0	200	20.0	
3	0.993	12	12.69	113	126	59.00	76.70	522	467	678	607	32.5	200	16.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Six Samples Received and Tested
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

Asim Chiragh, RE

Test Performed By:

Dr. /Engr.

Wasim Abbas

Nespak Lahore.(Widening/Impoving Of Manga Raiwind Road)

Client Reference: 3811/103/ADP-23/AC/92

Dated: 17-07-2023

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref:

Dated:

ASTM-A-615

Deformed Bar (Aziz Steel)

2583 (Page-1/1)

18-07-2023

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	5.22	7.56	57560	58730	83410	85110	1.60	8.0	20.0	
2	0.668	4	0.500	0.20	0.196	4.94	7.41	54520	55630	81720	83390	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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

Omar Sadiq

Project Manager One Liberty Mall and H&S Hotel Lahore.

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Client Reference: OL/OS/2023/62

Dated: 18-07-2023

Test: Tension Test & Bend Test

Gauge Length: 8 inch

SOM Lab

Ref: 2584 (Page-1/1)

Dated: 18-07-2023

Test Specification:

ASTM-A-615

Sample Type:

Deformed Bar (Aziz 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	1.480	6	0.744	0.44	0.435	12.79	19.80	64130	64860	99230	100370	1.30	8.0	16.3	
2	1.504	6	0.750	0.44	0.442	13.10	20.13	65660	65360	100910	100460	1.60	8.0	20.0	
3	0.693	4	0.510	0.20	0.204	5.71	8.66	62950	61720	95550	93680	1.40	8.0	17.5	
4	0.674	4	0.502	0.20	0.198	5.83	8.84	64300	64950	97460	98440	1.20	8.0	15.0	
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BEND TEST:

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

Nespaq,Gujranwala.(GEPCO Employees Housing Foundation GEHF Town Gujranwala)

Test Performed By: Dr./Engr. Wasim Abbas

Client Reference: P4265/23/MA/243

SOM Lab

Ref: 2585 (Page-1/1)

Dated: 17-07-2023

Dated: 18-07-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Deformed Bar (Mughal 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	1.510	6	0.752	0.44	0.444	14.24	18.83	71380	70740	94370	93520	1.30	8.0	16.3	
2	1.499	6	0.749	0.44	0.441	14.04	18.76	70360	70200	94020	93800	1.40	8.0	17.5	
3	1.043	5	0.625	0.31	0.307	11.37	13.73	80860	81650	97690	98640	1.30	8.0	16.3	
4	1.041	5	0.624	0.31	0.306	11.39	13.48	81010	82070	95880	97130	1.20	8.0	15.0	
5	0.672	4	0.501	0.20	0.197	6.65	8.53	73290	74410	94090	95520	1.20	8.0	15.0	
6	0.671	4	0.501	0.20	0.197	6.95	8.72	76660	77830	96110	97570	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

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

Raja Muhammad Aqeel

Test Performed By:

Dr. /Engr.

Wasim Abbas

Astt Dir. Building Section DHA Gujranwala.(Const Of 10 Marla Villas Block-A & D)

SOM Lab

Client Reference: 111/3/AD Bldgs/Gen/52

Ref:

2586 (Page-1/1)

Dated: 13-07-2023

Dated:

18-05-2023

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

Test Specification: ASTM-A-615
 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	0.666	4	0.500	0.20	0.196	5.73	8.74	63180	64470	96340	98300	1.20	8.0	15.0	
2	0.669	4	0.501	0.20	0.197	5.73	8.84	63180	64140	97460	98940	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Engr. Shahzad Khaleeq Awan

Test Performed By: Dr. /Engr. Waseem Abbas

Sr.PM Izhar Const. Pvt.Ltd.(Const. Of Commercial Building at DB-32 DHA Lahore)

Client Reference: Nil

SOM Lab

Dated: 17-07-2023

Ref: 2587 (Page-1/2)

Dated: 18-07-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch Sample Type: Deformed Bar (Aziz 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	2.613	8	0.989	0.79	0.768	23.11	37.41	64520	66360	104440	107430	1.50	8.0	18.8	
2	2.598	8	0.986	0.79	0.763	23.11	37.43	64520	66800	104500	108200	1.20	8.0	15.0	
3	1.490	6	0.747	0.44	0.438	12.09	19.69	60600	60880	98720	99170	1.40	8.0	17.5	
4	1.475	6	0.743	0.44	0.433	12.30	19.83	61670	62670	99380	100990	1.20	8.0	15.0	
5	0.662	4	0.498	0.20	0.195	5.88	8.74	64860	66530	96340	98810	1.30	8.0	16.3	
6	0.688	4	0.507	0.20	0.202	5.96	8.94	65760	65110	98580	97610	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Nine 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

Engr. Shahzad Khaleeq Awan

Test Performed By: Dr. /Engr. Waseem Abbas

Sr.PM Izhar Const. Pvt.Ltd.(Const. Of Commercial Building at DB-32 DHA Lahore)

Client Reference: Nil

SOM Lab

Ref: 2587 (Page-2/2)

Dated: 17-07-2023

Dated: 18-07-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Aziz Steel)

		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	14.63	18.71	73320	73660	93760	94190	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 6	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

Karachi Iron Store
 Khairpur Mir` s

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

Client Reference: Nil
 Dated: 18-07-2023

SOM Lab
 Ref: 2588 (Page-2b/10)
 Dated: 18-07-2023

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

Test Specification: ASTM-A-615
 Sample Type: Deformed Bar (Sheikhoo Steel)

No	Weight	Dia.	Area	Yield	Ultimate	Yield Stress	Ult. Stress	elongation	mark
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		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	1.499	6	0.749	0.44	0.441	14.68	19.75	73580	73410	98970	98750	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 6	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

Zulfiqar Iron Store
Kot Addu

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

Client Reference: Nil
Dated: 18-07-2023

SOM Lab
Ref: 2588 (Page-3b/10)
Dated: 18-07-2023

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

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Sheikhoo Steel)

No	Weight	Dia.	Area	Yield	Ultimate	Yield Stress	Ult. Stress	elongation	mark
----	--------	------	------	-------	----------	--------------	-------------	------------	------

		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	1.495	6	0.748	0.44	0.439	14.12	18.57	70770	70930	93100	93310	1.50	8.0	18.8	
2	0.672	4	0.501	0.20	0.197	6.07	7.85	66890	67900	86560	87870	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

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

Hafeez Iron Store
Taunsa

Client Reference: Nil
Dated: 18-07-2023

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

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

SOM Lab
Ref: 2588 (Page-6b/10)
Dated: 18-07-2023

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Sheikhoo Steel)

No	Weight	Dia.	Area	Yield	Ultimate	Yield Stress	Ult. Stress	elongation	elongation	mark
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		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	1.492	6	0.747	0.44	0.438	14.48	19.44	72560	72890	97440	97880	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 6	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

Khalid Iron Store Layyah Test Performed By: Dr. /Engr. Asad Ali Gillani

Client Reference: Nil SOM Lab
Dated: 18-07-2023 Ref: 2588 (Page-8b/10)
Test: Tension Test & Bend Test Dated: 18-07-2023
Gauge Length: 8 inch Test Specification: ASTM-A-615
Sample Type: Deformed Bar (Sheikhoo Steel)

No	Weight	Dia.	Area	Yield	Ultimate	Yield Stress	Ult. Stress	elongation	mark
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		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	2.640	8	0.994	0.79	0.776	24.41	33.15	68160	69390	92550	94220	1.50	8.0	18.8	
2	1.492	6	0.747	0.44	0.438	14.39	19.08	72150	72480	95650	96090	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Madina Iron Store **Test Performed By:** Dr. /Engr. Asad Ali Gillani
DG Khan

Client Reference: Nil **SOM Lab**
Dated: 18-07-2023 **Ref:** 2588 (Page-10b/10)
Test: Tension Test & Bend Test **Dated:** 18-07-2023
Gauge Length: 8 inch **Test Specification:** ASTM-A-615
Sample Type: Deformed Bar (Sheikhoo Steel)

No	Weight	Dia.	Area	Yield	Ultimate	Yield Stress	Ult. Stress	elongation	Le	Elon	rv	mark
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		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	0.664	4	0.498	0.20	0.195	6.49	8.87	71610	73440	97800	100300	1.20	8.0	15.0	H# 050-R
2	0.661	4	0.497	0.20	0.194	6.60	8.77	72730	74980	96670	99660	1.30	8.0	16.3	H# 052-R
3	0.663	4	0.498	0.20	0.195	6.75	8.79	74420	76320	96900	99380	1.20	8.0	15.0	H# 053-R
4	0.668	4	0.500	0.20	0.196	6.63	8.79	73070	74560	96900	98880	1.30	8.0	16.3	H# 054-R
5	0.662	4	0.498	0.20	0.195	6.68	8.82	73630	75520	97230	99730	1.30	8.0	16.3	H# 067-R
6	0.670	4	0.501	0.20	0.197	6.60	8.79	72730	73840	96900	98370	1.20	8.0	15.0	H# 068-R
7	0.672	4	0.501	0.20	0.197	6.49	8.92	71610	72700	98360	99860	1.20	8.0	15.0	H# 075-R
8	0.672	4	0.501	0.20	0.197	6.42	8.74	70820	71900	96340	97800	1.10	8.0	13.8	H# 078-R
9	0.671	4	0.501	0.20	0.197	6.52	8.94	71940	73040	98580	100080	1.30	8.0	16.3	H# 079-R
10	0.671	4	0.501	0.20	0.197	6.78	9.02	74750	75890	99480	101000	1.10	8.0	13.8	H# 083-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. Irfan ul Hassan**
Director Projects, Sheikhoo Sugar Mills (Steel Div), Anwar Abad Kot Addu, Muzaffargarh.

Client Reference: **Nil**

Dated: **16-07-2023**

Test: **Tension Test Test**

Gauge Length: **8 inch**

Test Specification:

Sample Type:

SOM Lab

Ref: **2589 (Page-1b/1)**

Dated: **18-07-2023**

ASTM-A-615

Deformed Bar (Sheikhoo Steel)

No	Weight	Dia.	Area	Yield	Ultimate	Yield Stress	Ult. Stress	on	gat	e	Le	El	on	Ke	ma	rk
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		Nominal	Calculated	Nominal	Calculated	Load	Load	(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	0.668	4	0.500	0.20	0.196	6.52	8.84	71940	73410	97460	99450	1.40	8.0	17.5	H# 085-R
2	0.672	4	0.501	0.20	0.197	6.60	8.87	72730	73840	97800	99290	1.30	8.0	16.3	H# 090-R
3	0.667	4	0.500	0.20	0.196	6.47	8.89	71380	72840	98020	100020	1.40	8.0	17.5	H# 101-R
4	0.668	4	0.500	0.20	0.196	6.60	8.74	72730	74210	96340	98300	1.20	8.0	15.0	H# 830-Q
5	0.670	4	0.501	0.20	0.197	8.46	8.84	93300	94720	97460	98940	1.30	8.0	16.3	H# 834-Q
6	0.666	4	0.500	0.20	0.196	6.63	8.74	73070	74560	96340	98300	1.00	8.0	12.5	H# 838-Q
7	0.673	4	0.502	0.20	0.198	6.75	8.87	74420	75170	97800	98780	1.00	8.0	12.5	H# 841-Q
8	0.663	4	0.498	0.20	0.195	6.65	8.66	73290	75170	95550	98000	1.30	8.0	16.3	H# 849-Q
9	0.668	4	0.500	0.20	0.196	6.65	8.69	73290	74790	95770	97730	1.20	8.0	15.0	H# 851-Q
10	0.668	4	0.500	0.20	0.196	6.49	8.89	71610	73070	98020	100020	1.00	8.0	12.5	H#853-Q

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