

Sheikhoo Steel

Test Performed By: Dr. /Engr. Nauman Khurram

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

Client Reference: Nil

Dated : 15-08-2023

SOM Lab Ref: CED/SOM/2699(Page-1a/1)

Dated : 16-08-2023

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	4.798	28	27.89	616	611	295.50	406.20	480	484	660	665	35.0	200	17.5	
2	4.802	28	27.91	616	612	297.20	408.20	483	486	663	668	37.5	200	18.8	
3	4.815	28	27.95	616	613	296.50	407.00	482	484	661	664	37.5	200	18.8	
4	2.979	22	21.98	380	379	187.50	251.20	493	495	661	662	35.0	200	17.5	
5	2.985	22	22.01	380	380	187.50	253.20	493	494	666	666	32.5	200	16.3	
6	2.974	22	21.96	380	379	185.70	251.50	489	491	662	664	37.5	200	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

--	No Bend test performed	Note:- Only Six Samples Received and Tested

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

Sheikhoo Steel

Test Performed By: Dr. /Engr. Nauman Khurram

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

Client Reference: Nil

Date: 15-08-2023

SOM Lab Ref: CED/SOM/2699(Page-1b/1)

Date: 16-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length: 200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.873	12	11.89	113	111	51.20	73.50	453	462	650	663	27.5	200	13.8	719-R
2	0.873	12	11.90	113	111	50.20	71.50	444	452	632	643	32.5	200	16.3	720-R
3	0.890	12	12.02	113	113	54.70	74.20	484	483	656	655	30.0	200	15.0	721-R
4	0.888	12	12.00	113	113	55.20	74.50	488	489	659	659	30.0	200	15.0	724-R
5	0.878	12	11.93	113	112	52.00	72.50	460	466	641	649	27.5	200	13.8	726-R
6	0.893	12	12.04	113	114	56.00	73.50	495	493	650	646	30.0	200	15.0	727-R
7	0.888	12	12.00	113	113	54.20	71.70	479	479	634	634	32.5	200	16.3	728-R
8	0.895	12	12.05	113	114	54.50	74.20	482	479	656	651	30.0	200	15.0	729-R
9	0.897	12	12.06	113	114	56.50	74.50	500	495	659	653	30.0	200	15.0	731-R
10	0.898	12	12.07	113	114	59.00	74.70	522	516	660	653	27.5	200	13.8	732-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. Nauman Khurram

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

Client Reference: Nil

Dated: 15-08-2023

SOM Lab Ref: CED/SOM/2699(Page-1c/1)

Dated: 16-08-2023

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	0.889	12	12.00	113	113	52.70	75.00	466	467	663	664	32.5	200	16.3	735-R
2	0.889	12	12.01	113	113	53.00	75.20	469	468	665	664	32.5	200	16.3	736-R
3	0.888	12	12.00	113	113	51.70	73.20	457	458	647	648	35.0	200	17.5	737-R
4	0.886	12	11.99	113	113	52.70	73.20	466	467	647	649	32.5	200	16.3	738-R
5	0.893	12	12.03	113	114	53.20	74.20	470	468	656	653	30.0	200	15.0	739-R
6	0.878	12	11.94	113	112	54.50	76.20	482	488	674	682	30.0	200	15.0	740-R
7	0.880	12	11.95	113	112	54.00	75.20	477	482	665	671	32.5	200	16.3	741-R
8	0.892	12	12.03	113	114	53.20	74.50	470	469	659	656	32.5	200	16.3	742-R
9	0.889	12	12.01	113	113	53.00	74.20	469	469	656	656	30.0	200	15.0	743-R
10	0.887	12	11.99	113	113	53.20	75.20	470	471	665	666	30.0	200	15.0	744-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. Nauman
Khurram

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

Client Reference: Nil

Dated : 15-08-2023

SOM Lab Ref: CED/SOM/2699(Page-1d/1)

Dated : 16-08-2023

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	mm	%	
1	0.882	12	11.94	113	112	52.70	76.70	466	471	678	685	37.5	200	18.8	745-R
2	0.870	12	11.88	113	111	53.70	74.00	475	485	654	668	30.0	200	15.0	746-R
3	0.883	12	11.97	113	112	53.00	74.50	469	472	659	663	32.5	200	16.3	748-R
4	0.875	12	11.92	113	112	55.00	74.70	486	494	660	670	27.5	200	13.8	749-R
5	0.871	12	11.89	113	111	54.70	74.00	484	493	654	667	32.5	200	16.3	750-R
6	0.873	12	11.90	113	111	54.50	74.70	482	491	660	673	35.0	200	17.5	751-R
7	0.872	12	11.89	113	111	55.00	75.20	486	496	665	677	32.5	200	16.3	752-R
8	0.870	12	11.88	113	111	54.70	76.70	484	494	678	692	37.5	200	18.8	753-R
9	0.881	12	11.95	113	112	54.50	72.70	482	486	643	649	35.0	200	17.5	754-R
10	0.886	12	11.99	113	113	52.50	71.20	464	466	630	631	32.5	200	16.3	755-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.

Nauman
Khurram

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

Client Reference: Nil

Dated: 15-08-2023

SOM Lab Ref: CED/SOM/2699(Page-1e/1)

Dated: 16-08-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar (Sheikhoo Steel)

Gauge Length:

200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.883	12	12.00	113	113	55.70	73.00	492	493	645	647	27.5	200	13.8	756-R
2	0.883	12	11.97	113	113	53.20	72.00	470	473	637	640	30.0	200	15.0	757-R
3	0.880	12	11.95	113	112	55.20	73.20	488	493	647	653	30.0	200	15.0	758-R
4	0.880	12	11.95	113	112	53.70	73.50	475	480	650	656	32.5	200	16.3	759-R
5	0.883	12	11.97	113	113	57.00	75.00	504	507	663	667	27.5	200	13.8	760-R
6	0.883	12	11.97	113	113	56.50	72.70	500	503	643	647	32.5	200	16.3	761-R
7	0.888	12	12.00	113	113	55.00	73.50	486	487	650	650	32.5	200	16.3	762-R
8	0.888	12	12.00	113	113	55.70	73.50	492	493	650	650	35.0	200	17.5	763-R
9	0.885	12	11.98	113	113	56.20	74.00	497	499	654	657	30.0	200	15.0	765-R
10	0.889	12	12.01	113	113	56.00	74.50	495	495	659	659	30.0	200	15.0	766-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. Nauman
Khurram

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

Client Reference: Nil

Dated : 15-08-2023

SOM Lab Ref: CED/SOM/2699(Page-1f/1)

Dated : 16-08-2023

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	mm	%	
1	0.897	12	12.05	113	114	60.50	79.50	535	531	703	698	30.0	200	15.0	768-R
2	0.880	12	11.95	113	112	57.70	75.70	510	515	669	676	32.5	200	16.3	773-R
3	0.884	12	11.98	113	113	52.50	74.00	464	467	654	657	30.0	200	15.0	774-R
4	0.888	12	12.00	113	113	54.20	73.70	479	480	652	652	27.5	200	13.8	775-R
5	0.883	12	11.97	113	113	51.50	73.00	455	458	645	649	30.0	200	15.0	777-R
6	0.887	12	12.00	113	113	55.50	76.20	491	492	674	675	35.0	200	17.5	778-R
7	0.881	12	11.95	113	112	55.00	75.50	486	491	668	674	30.0	200	15.0	779-R
8	0.866	12	11.85	113	110	55.20	75.70	488	501	669	687	32.5	200	16.3	781-R
9	0.874	12	11.91	113	111	53.00	73.00	469	476	645	656	32.5	200	16.3	785-R
10	0.886	12	11.99	113	113	56.00	75.20	495	497	665	667	27.5	200	13.8	786-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.

Nauman
Khurram

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

Client Reference: Nil

Dated: 15-08-2023

SOM Lab Ref: CED/SOM/2699(Page-1g/1)

Dated: 16-08-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample
Type:

Deformed Bar (Sheikhoo Steel)

Gauge Length:

200 mm

S.No.	Weight	Dia.		Area		Yield Load	Ultimate Load	Yield Stress		Ult. Stress		Elongation	Gauge Length	%age Elongation	Remarks
		Nominal	Calculated	Nominal	Calculated			(according to nominal area)	(according to measured area)	(according to nominal area)	(according to measured area)				
	kg/m	mm	mm	mm ²	mm ²	kN	kN	MPa	MPa	MPa	MPa	mm	m	%	
1	0.888	12	12.00	113	113	56.70	76.00	501	502	672	673	30.0	200	15.0	787-R
2	0.884	12	11.98	113	113	53.50	72.70	473	475	643	646	30.0	200	15.0	788-R
3	0.885	12	11.98	113	113	57.20	76.20	506	508	674	676	32.5	200	16.3	790-R
4	0.877	12	11.92	113	112	56.20	73.00	497	504	645	654	32.5	200	16.3	792-R
5	0.878	12	11.94	113	112	57.00	75.50	504	510	668	675	35.0	200	17.5	793-R
6	0.884	12	11.97	113	113	55.50	73.70	491	494	652	655	30.0	200	15.0	794-R
7	0.882	12	11.96	113	112	57.20	77.00	506	510	681	686	30.0	200	15.0	796-R
8	0.874	12	11.91	113	111	56.20	73.70	497	505	652	662	32.5	200	16.3	797-R
9	0.892	12	12.03	113	114	54.00	73.70	477	476	652	649	30.0	200	15.0	798-R
10	0.873	12	11.90	113	111	56.70	75.50	501	511	668	680	32.5	200	16.3	799-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. Nauman Khurram

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

Client Reference: Nil

Date: 15-08-2023

SOM Lab Ref: CED/SOM/2699(Page-1h/1)

Date: 16-08-2023

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	mm	%	
1	0.877	12	11.94	113	112	53.20	72.50	470	475	641	648	32.5	200	16.3	800-R
2	0.874	12	11.91	113	111	55.50	75.00	491	499	663	674	32.5	200	16.3	801-R
3	0.868	12	11.87	113	111	56.70	75.20	501	513	665	680	32.5	200	16.3	802-R
4	0.862	12	11.83	113	110	54.50	73.50	482	497	650	670	35.0	200	17.5	803-R
5	0.873	12	11.90	113	111	55.50	74.70	491	500	660	673	35.0	200	17.5	804-R
6	0.880	12	11.95	113	112	55.20	74.50	488	493	659	665	32.5	200	16.3	805-R
7	0.869	12	11.88	113	111	56.70	76.50	501	512	676	691	27.5	200	13.8	806-R
8	0.879	12	11.94	113	112	55.50	75.70	491	496	669	677	30.0	200	15.0	807-R
9	0.880	12	11.95	113	112	55.00	74.70	486	491	660	667	27.5	200	13.8	808-R
10	0.870	12	11.88	113	111	54.20	74.50	479	489	659	672	30.0	200	15.0	809-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

Sub Divisional officer,
BSD No.01 Bahawalpur.(Const. Of Environment Complex In Bahawalpur)

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

Client Reference: 2280/Bwp

SOM Lab

Ref: 2694 (Page-1/1)

Dated: 14-06-2023

Dated: 16-08-2023

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	2.70 1	8	1.00 5	0.79 9	0.79 4	21.94	35.83	61240	60940	10030	99530	1.4 0	8.0	17. 5	
2	1.51 1	6	0.75 2	0.44 4	0.44 4	12.90	20.03	64640	64060	10040 0	99500	1.5 0	8.0	18. 8	
3	0.66 9	4	0.50 1	0.20 0	0.19 7	4.05	5.81	44630	45310	64080	65050	1.2 0	8.0	15. 0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

--	No Bend test performed	Note:- Only Three Samples Received and Tested

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

Sadaqat Ahmad,RE
Nespak Lahore.(University Of Child Health Sciences Lahore)

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

Client Reference: 4598/13/SA/09/050

SOM Lab

Ref: 2695 (Page-1/1)

Dated: 15-08-2023

Dated: 16-08-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Batala Gold)

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	1.440	6	0.734	0.44	0.423	11.74	19.26	58860	61230	96520	100400	1.30	8.0	16.3	
2	1.455	6	0.738	0.44	0.428	12.25	19.90	61420	63140	99740	102530	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

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

Engr. Muhammad Ashraf Bhatti

Test Performed By: Dr. /Engr. Irfan UI Hassan

CM Barqaab Consult.Services (Pvt) Ltd.(500/220/132kV Nokhar S/Station,ADB Loan No.3677-Pak)

Client Reference: 500KV/SS/N-LHR/BQB/120

SOM Lab

Ref: 2696 (Page-1/1)

Dated: 07-08-2023

Dated: 16-08-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (FF 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	3.402	9	1.128	1.000	1.000	32.93	46.40	72620	72620	102340	102340	1.30	8.00	16.3	
2	3.390	9	1.126	1.000	0.996	33.10	46.40	73000	73290	102340	102750	1.50	8.00	18.8	
3	2.621	8	0.990	0.799	0.770	24.01	33.91	67020	68760	94680	97140	1.50	8.00	18.8	
4	2.640	8	0.994	0.799	0.776	24.06	34.30	67160	68370	95760	97490	1.40	8.00	17.5	
5	2.634	8	0.993	0.799	0.774	24.92	34.53	69580	71020	96390	98380	1.40	8.00	17.5	
6	1.460	6	0.739	0.444	0.429	12.86	17.99	64480	66140	90180	92500	1.40	8.00	17.5	
7	1.483	6	0.745	0.444	0.436	12.95	18.14	64890	65490	90950	91780	1.40	8.00	17.5	
8	0.667	4	0.500	0.200	0.196	6.34	8.07	69920	71350	89030	90850	1.20	8.00	15.0	
9	0.670	4	0.501	0.200	0.197	6.49	8.28	71610	72700	91280	92670	1.30	8.00	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Witnessed By: Rana Zahid(F.M EHVF), Aamir Sohail (CET)

BEND TEST:

Sr. (1-2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eighteen Samples Received and Tested
Sr. (3-5)	Sample bend through 180 degrees Satisfactorily without any crack	
Sr. (6-7)	Sample bend through 180 degrees Satisfactorily without any crack	
Sr. (8-9)	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

Saquib Akram,RE
Nespak Lahore.(Const.Of Flyover/Underpass at Akbar Chowk Lahore)

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

Client Reference: 3772/103/ACF/SA/04/170

SOM Lab

Ref: 2697 (Page-1/1)

Dated: 09-08-2023

Dated: 16-08-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Batala Premium)

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	2.669	8	0.999	0.79	0.784	23.82	33.25	66510	67020	92830	93540	1.50	8.0	18.8	
2	2.641	8	0.994	0.79	0.776	23.55	32.64	65740	66930	91120	92770	1.60	8.0	20.0	
3	1.440	6	0.734	0.44	0.423	15.55	20.69	77920	81050	103720	107890	1.30	8.0	16.3	
4	1.441	6	0.734	0.44	0.423	15.60	21.07	78180	81320	105610	109860	1.30	8.0	16.3	
5	0.670	4	0.501	0.20	0.197	6.09	9.04	67110	68130	99710	101230	1.20	8.0	15.0	
6	0.672	4	0.501	0.20	0.197	6.98	9.14	77000	78170	100830	102370	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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

Muhammad Saleem,G.M

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

Professional Const.Services Lahore.(TCF Secondary School Basti Chan Wali Qasba Gujrat)

Client Reference: PCS/23/Eng-103-C

SOM Lab

Ref: 2698 (Page-1/3)

Dated: 11-08-2023

Dated: 16-08-2023

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	2.660	8	0.998	0.79	0.782	29.92	36.72	83530	84380	102510	103560	1.40	8.0	17.5	
2	2.655	8	0.997	0.79	0.780	29.38	36.26	82020	83070	101230	102520	1.60	8.0	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

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

Muhammad Saleem,G.M

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

Professional Const.Services Lahore.(TCF Secondary School Basti Chan Wali Qasba Gujrat)

Client Reference: PCS/23/Eng-103-B

SOM Lab

Ref: 2698 (Page-2/3)

Dated: 11-08-2023

Dated: 16-08-2023

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	1.522	6	0.754	0.44	0.447	14.83	19.24	74350	73180	96420	94910	1.50	8.0	18.8	
2	1.515	6	0.753	0.44	0.445	14.58	19.13	73070	72250	95910	94830	1.50	8.0	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

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

Muhammad Saleem,G.M

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

Professional Const.Services Lahore.(TCF Secondary School Basti Chan Wali Qasba Gujrat)

Client Reference: PCS/23/Eng-103-A

SOM Lab

Ref: 2698 (Page-3/3)

Dated: 11-08-2023

Dated: 16-08-2023

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	0.678	4	0.503	0.20	0.199	7.90	9.65	87120	87560	106450	106990	1.20	8.00	15.00	
2	0.684	4	0.506	0.20	0.201	7.54	9.38	83180	82770	103420	102900	1.10	8.00	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

--	No Bend test performed	Note:- Only Two Samples Received and Tested

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

Mirza Muhammad Shahzad,RE

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

Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/104

SOM Lab

Ref: 2700 (Page-1a/1)

Dated: 15-08-2023

Dated: 16-08-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Mughal 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	2.660	8	0.998	0.79	0.782	25.99	34.68	72570	73310	96820	97810	1.50	8.0	18.8	A-1154
2	2.666	8	0.998	0.79	0.783	26.17	34.83	73050	73710	97240	98110	1.50	8.0	18.8	E-9405
3	1.493	6	0.748	0.44	0.439	15.57	19.62	78020	78200	98360	98580	1.30	8.0	16.3	D-7038
4	1.476	6	0.743	0.44	0.434	15.46	19.62	77510	78580	98360	99720	1.20	8.0	15.0	D-8430
5	1.475	6	0.743	0.44	0.433	15.55	19.67	77920	79180	98610	100210	1.20	8.0	15.0	E-9265
6	1.049	5	0.626	0.31	0.308	9.89	13.05	70350	70810	92830	93430	1.30	8.0	16.3	D-2566
7	1.100	5	0.641	0.31	0.323	11.01	14.22	78330	75170	101170	97100	1.30	8.0	16.3	D-6839
8	1.048	5	0.626	0.31	0.308	10.11	13.02	71940	72410	92610	93210	1.10	8.0	13.8	B-6841
9	1.067	5	0.632	0.31	0.314	11.64	13.88	82820	81770	98780	97520	1.20	8.0	15.0	D-6842
10	1.037	5	0.623	0.31	0.305	9.94	13.02	70710	71870	92610	94130	1.20	8.0	15.0	E-8066

BEND TEST:

Sr (1-2)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Twenty Samples Received and Tested
Sr (3-5)	Sample bend through 180 degrees Satisfactorily without any crack	
Sr (6-10)	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

Mirza Muhammad Shahzad,RE

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

Nespak Lahore.(Const Of Multi-Level Grade Separation Flyover at Shahdra Morr Lahore)

Client Reference: 4537/03/MSA/09/104

Dated: 15-08-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2700 (Page-1b/1)

Dated: 16-08-2023

ASTM-A-615

Deformed Bar (Mughal 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	0.681	4	0.505	0.20	0.200	6.75	8.38	74420	74420	92400	92400	1.10	8.0	13.8	A-9510
2	0.670	4	0.501	0.20	0.197	6.54	8.41	72170	73270	92740	94150	1.00	8.0	12.5	B-2506
3	0.670	4	0.501	0.20	0.197	6.78	8.48	74750	75890	93530	94950	1.00	8.0	12.5	E-9491
4	0.663	4	0.498	0.20	0.195	6.63	8.41	73070	74940	92740	95120	1.00	8.0	12.5	E-9537
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

BEND TEST:

Sr (1-4)	Sample bend through 180 degrees Satisfactorily without any crack	Note:- Only Eight Samples Received and Tested

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