

Arfan Nazir

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Manager Civil, Nishat Mills Ltd. Lahore. Nishat Group (Const Of Nishat Stitching Bath Division Lahore)

2077 (Page-

Client Reference: NDF/ST/015

SOM Lab Ref:

1/1)

Dated: 11-04-2023

Dated:

12-04-2023

Test: Tension Test

Test Specification:

ASTM-A-615

Guage Length: 200 mm

Sample Type:

MS Def 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)				
	kg/m	mm	mm	mm <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.478	20	20.06	314	316	146.70	233.00	467	465	742	738	37.5	200	18.8	
2	2.487	20	20.08	314	317	145.70	235.00	464	460	748	742	35.0	200	17.5	
3	1.000	12	12.74	113	127	54.70	79.90	484	430	707	628	32.5	200	16.3	
4	1.002	12	12.75	113	128	55.70	80.20	493	437	710	629	37.5	200	18.8	
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**BEND TEST:**

20mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Six 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](http://www.uet-civil.edu.pk)

Iftikhar Haleem,

**Test Performed By:**

**Dr. /Engr. Asad Ali Gillani**

The Engineer,UCHS IDAP Govt Of Punjab (Estb Of University Of Child Health Science,Lhr)

**Client Reference:** TE(UCHS)/IDAP/2023/16481

**SOM Lab**

**Ref:** 2076 (Page-1/1)

**Dated:** 10-04-2023

**Dated:** 12-04-2023

**Test:** Tension Test & Bend Test

**Test Specification:**

ASTM-A-615

Deformed Bar (Siddique

**Gauge Length:** 8 inch

**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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.658	8	0.997	0.79	0.781	21.58	35.98	60250	60940	100460	101620	1.30	8.0	16.3	
2	2.634	8	0.993	0.79	0.774	21.30	35.63	59480	60710	99460	101520	1.10	8.0	13.8	
3	1.507	6	0.751	0.44	0.443	12.44	19.49	62340	61920	97690	97030	1.30	8.0	16.3	
4	1.508	6	0.751	0.44	0.443	12.35	19.54	61930	61510	97950	97290	1.20	8.0	15.0	
5	0.671	4	0.501	0.20	0.197	5.83	9.07	64300	65280	100050	101570	1.20	8.0	15.0	
6	0.671	4	0.501	0.20	0.197	6.39	9.19	70480	71560	101390	102940	1.10	8.0	13.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Muhammad Zunair Mughal  
Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 2078 (Page-1/1)

Dated: 11-04-2023

Dated: 12-04-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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	2.572	8	0.981	0.79	0.756	23.31	30.68	65090	68010	85660	89510	1.20	8.0	15.0	
2	1.521	6	0.754	0.44	0.447	13.76	20.59	68980	67900	103210	101600	1.20	8.0	15.0	
3	0.673	4	0.502	0.20	0.198	8.12	9.09	89590	90500	100270	101280	1.50	8.0	18.8	
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**BEND TEST:**

# 8	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Engr. Major Zia-UI-Islam ®

**Test Performed By:**

Dr. /Engr. Wasim Abbas

PD GCC,Overseas Const.Co, Lahore.(Project Gulberg City Cerntre, Lahore)

**Client Reference:** OCC/Steel/41

**SOM Lab**

**Ref:** 2079 (Page-1/2)

**Dated:** 12-04-2023

**Dated:** 12-04-2023

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**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	2.633	8	0.993	0.79	0.774	24.52	31.24	68440	69860	87230	89030	1.70	8.0	21.3	
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**BEND TEST:**

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

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. Wasim Abbas

PD GCC,Overseas Const.Co, Lahore.(Project Gulberg City Cerntr, Lahore)

**Client Reference:** OCC/Steel/40

**SOM Lab**

**Ref:** 2079 (Page-2/2)

**Dated:** 12-04-2023

**Dated:** 12-04-2023

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A-615

**Gauge Length:** 8 inch

**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	0.605	4	0.476	0.20	0.178	6.09	8.02	67110	75400	88470	99400	1.30	8.0	16.3	
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**BEND TEST:**

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

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

ESS-I-AAR Consultant,RE

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

Multan.(Const Of Flyover at Nadirabad Phatak To Industrial Estate Multan)

Client Reference: 1135

SOM Lab

Ref:

2080 (Page-1/1)

Dated: 03-04-2023

Dated:

12-04-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (PSC 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	1.504	6	0.750	0.44	0.442	12.09	18.78	60600	60330	94120	93690	1.50	8.0	18.8	
2	1.514	6	0.753	0.44	0.445	12.11	18.71	60700	60020	93760	92710	1.40	8.0	17.5	
3	0.667	4	0.500	0.20	0.196	6.01	9.33	66320	67680	102860	104950	1.40	8.0	17.5	
4	0.588	4	0.469	0.20	0.173	6.03	9.35	66550	76930	103080	119170	1.20	8.0	15.0	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Asif Shahzad

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

Project Engr. Building Section DHA Gujranwala.(Const Of Office Complex DHA Gujranwala)

Client Reference: 111/3/PE Bldgs/Gen/21

SOM Lab

Ref: 2082 (Page-1/1)

Dated: 12-04-2023

Dated: 12-04-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.522	6	0.754	0.44	0.447	13.15	20.29	65910	64880	101680	100090	1.40	8.0	17.5	
2	1.517	6	0.754	0.44	0.446	12.92	20.20	64740	63870	101270	99910	1.50	8.0	18.8	
3	1.062	5	0.630	0.31	0.312	8.61	13.30	61280	60890	94640	94040	1.60	8.0	20.0	
4	1.057	5	0.629	0.31	0.311	8.69	13.37	61790	61590	95150	94840	1.60	8.0	20.0	
5	0.673	4	0.502	0.20	0.198	6.17	9.28	68010	68700	102290	103330	1.10	8.0	13.8	
6	0.669	4	0.501	0.20	0.197	6.07	9.23	66890	67900	101730	103280	1.30	8.0	16.3	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Zafar Catring  
Lahore

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

Client Reference: Nil

SOM Lab

Ref: 2083 (Page-1/1)

Dated: 11-04-2023

Dated: 12-04-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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	1.478	6	0.743	0.44	0.434	12.03	18.67	60290	61130	93610	94900	1.20	8.0	15.0	
2	1.482	6	0.745	0.44	0.436	12.08	18.86	60550	61110	94530	95390	1.30	8.0	16.3	
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**BEND TEST:**

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

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



Engr. Ehsan Ullah

Test Performed By:

Dr. /Engr. Asad Ali Gillani

Construction Of House 168-C,DHA Ph-XII EME Lahore.

Client Reference: Nil

SOM Lab

Ref: 2084 (Page-1/1)

Dated: 10-04-2023

Dated: 12-04-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

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	1.455	6	0.738	0.44	0.428	14.19	18.27	71130	73120	91560	94130	1.20	8.0	15.0	
2	1.449	6	0.736	0.44	0.426	14.29	18.09	71640	73990	90690	93680	1.30	8.0	16.3	
3	1.037	5	0.623	0.31	0.305	10.35	13.32	73610	74820	94790	96340	1.30	8.0	16.3	
4	1.044	5	0.625	0.31	0.307	10.40	13.25	73970	74700	94280	95200	1.50	8.0	18.8	
5	0.658	4	0.496	0.20	0.193	6.98	8.36	77000	79790	92180	95520	1.20	8.0	15.0	
6	0.672	4	0.501	0.20	0.197	7.05	8.61	77790	78970	94990	96430	1.10	8.0	13.8	
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**BEND TEST:**

# 6	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  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](http://www.uet-civil.edu.pk)

Test Performed by: S. Asad Ali Gillani

Sheikh Younis & Sons Constructions  
MM Alam Road Gulberg III Lahore.

Client Reference No.: Nil

Dated: 12-04-2023

SOM Lab Ref: CED/SOM/2081 (Page 1/1)

Dated: 12-04-2023

Test Type: Tensile Test

Sample Type: Threaded Rod (Nut Bolt 12mm)

Test Specification: ASTM – F-606

### Tensile Test Results

Sample No.	Sample Type	Tested Diameter of Rod/Bolt (mm)	Ultimate Load (kN)	Ultimate Tensile Stress (MPa)	Remarks
1	Threaded Rod (Nut Bolt 12mm)	12.0	13.0	115.04	Threaded Rod Breaks at this Load
2	Threaded Rod (Nut Bolt 12mm)	12.0	47.7	422.12	Threaded Rod Breaks at this Load

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

