

Major Tanveer Ahmad ®

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

RE-2 ACES,DHA Multan.(Civil Infrastructure Development Works DHA Multan)

Client Reference: ACES-DHAM-NLC-149

Dated: 03-02-2022

SOM Lab Ref: CED/SOM/5817(Page-1/1)

Dated: 04-02-2022

Test: Tension Test &amp; Bend Test

Test Specification:

ASTM-A 615

Sample Type: Deformed Bar (Mughal 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 <sup>2</sup>	mm <sup>2</sup>	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	0.870	12	11.89	113	111	61.20	74.20	541	552	656	669	27.5	200	13.8	
2	0.873	12	11.90	113	111	60.00	75.20	531	540	665	677	22.5	200	11.3	
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**BEND TEST:**

12mm Sample bend through 180 degrees Satisfactorily without any crack

**Note:-**Only Three Samples  
Received and TestedNote: Please always confirm the results of above report on web [www.uet-civil.edu.pk](http://www.uet-civil.edu.pk)

Major Tanveer Ahmad ®  
RE-2 ACES Sector-V DHA Multan.

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

Client Reference: ACES/DHAM/DEV/SEC-V/746

SOM Lab 5811 (Page-

Ref: 1/1)

Dated: 19-01-2022

Dated: 04-02-2022

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	1.626	6	0.780	0.44	0.478	16.46	21.07	82520	75960	105610	97220	1.40	8.0	17.5	
2	1.637	6	0.783	0.44	0.481	16.31	21.02	81750	74790	105360	96380	1.40	8.0	17.5	
3	0.665	4	0.498	0.20	0.195	6.83	8.77	75320	77250	96670	99150	1.20	8.0	15.0	
4	0.666	4	0.500	0.20	0.196	6.75	8.72	74420	75940	96110	98070	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)

Muddasir Ali  
Lahore.

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

**Client Reference:** Nil

**SOM Lab Ref:** 5813 (Page-1/1)

**Dated:** 04-02-2022

**Dated:** 04-02-2022

**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	2.643	8	0.995	0.79	0.777	25.25	36.46	70490	71670	101800	103500	1.00	8.0	12.5	
2	2.631	7	0.992	0.60	0.773	24.57	35.44	90300	70090	130280	101130	1.30	8.0	16.3	
3	1.492	6	0.747	0.44	0.438	14.14	19.93	70870	71190	99890	100350	1.50	8.0	18.8	
4	1.065	5	0.631	0.31	0.313	9.40	13.12	66870	66230	93340	92440	1.20	8.0	15.0	
5	0.659	4	0.497	0.20	0.194	7.08	8.77	78130	80540	96670	99660	1.20	8.0	15.0	
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**BEND TEST:**

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

Muddasir Ali  
Lahore.

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

Client Reference: Nil

SOM Lab 5814 (Page-

Ref: 1/1)

Dated: 04-02-2022

Dated: 04-02-2022

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	1.033	5	0.622	0.31	0.304	10.88	13.76	77380	78910	97910	99840	1.00	8.0	12.5	
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**BEND TEST:**

# 5	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)

Col Tajamal Hussain Riaz ®

Test Performed By:

Dr. /Engr.

Umbreen Sahar

RE CSM ACE Limited.Multan.(Secretariat Office Building Multan & Allied Work)

Client Reference: ACE/RE/CSM/2021/0032

SOM Lab

5815 (Page-

Ref:

1/1)

Dated: 03-01-2022

Dated:

04-02-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.552	8	0.977	0.79	0.750	27.29	37.36	76180	80250	104300	109860	1.20	8.0	15.0	
2	2.575	8	0.982	0.79	0.757	23.19	32.16	64740	67570	89790	93700	1.50	8.0	18.8	
3	1.487	6	0.746	0.44	0.437	14.34	21.02	71890	72390	105360	106080	1.00	8.0	12.5	
4	1.564	6	0.765	0.44	0.460	14.42	21.71	72300	69160	108830	104100	1.10	8.0	13.8	
5	0.672	4	0.501	0.20	0.197	6.98	8.69	77000	78170	95770	97230	1.30	8.0	16.3	
6	0.671	4	0.501	0.20	0.197	6.98	8.72	77000	78170	96110	97570	1.30	8.0	16.3	
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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)

Col Tajamal Hussain Riaz ®

Test Performed By:

Dr. /Engr.

Umbreen Sahar

RE CSM ACE Limited.Multan.(Secretariat Office Building Multan & Allied Work)

Client Reference: ACE/RE/CSM/2021/0029

SOM Lab

5816 (Page-

Ref:

1/1)

Dated: 03-01-2022

Dated:

04-02-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Union 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	2.678	8	1.001	0.79	0.787	25.76	34.10	71920	72190	95190	95560	1.50	8.0	18.8	
2	2.588	8	0.984	0.79	0.761	26.37	34.48	73620	76430	96250	99910	1.30	8.0	16.3	
3	1.524	6	0.755	0.44	0.448	15.41	20.34	77260	75880	101940	100120	1.30	8.0	16.3	
4	1.493	6	0.748	0.44	0.439	15.41	20.20	77260	77430	101270	101500	1.00	8.0	12.5	
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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	

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

Executive Engineer

Test Performed By:

Dr. /Engr.

Asad Ali Gillani

UVAS,Lahore.(Const. Of 1st Floor Of Girls Hostel At CVAS Jhang)

Client Reference: No. E.:E693

SOM Lab

5818 (Page-

Ref:

1/2)

Dated: 08-11-2021

Dated:

04-02-2022

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

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 <sup>2</sup>	in <sup>2</sup>	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.523	6	0.755	0.44	0.448	16.77	20.54	84050	82550	102960	101120	1.30	8.0	16.3	
2	0.590	4	0.469	0.20	0.173	6.68	8.02	73630	85120	88470	102270	1.00	8.0	12.5	
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**BEND TEST:**

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

Executive Engineer

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

UVAS,Lahore.(Const. Of Residences For (G 1-10)Block-II At Ahata Quarters City, CVAS Lahore)

Client Reference: No. E.:E637

SOM Lab 5818 (Page-

Ref: 2/2)

Dated: 10-09-2021

Dated: 04-02-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

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 <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	15.34	19.34	76900	79060	96930	99650	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 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)



**Test Performed by:** Dr. Wasim Abbas

Engr. Zaheer Ud Din Babar,  
Dy.General Manager Projects,  
Habib Rafiq Engineering (Pvt.) Ltd,Lahore  
(Construction Of Sky Gardens Tower, Lahore)

**Client Reference No.:** HRLE/SKG/2022/007

Dated: 04-02-2022

**SOM Lab Ref:** CED/SOM/5812 (1/1Page)

Dated: 04-02-2022

**Test:** Tensile Test

**Sample Type:** M.S Deformed Steel bar with Coupler

**Tension Test Results :-**

Sr. No.	Bar Size	Area	Ultimate Load	Ultimate stress	Ultimate stress	Remarks
	( mm )	(mm <sup>2</sup> )	kN	(psi)	(Mpa)	
1	25	491	290.00	85695	591	Steel Broken at Coupler
2	22	380	225.00	85840	592	Coupler Broken
3	16	201	119.20	85985	593	Steel Broken at Coupler

Witness by :-  
M Asghar

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