

Mian Zafar Iqbal

**Test Performed By:** Dr. /Engr. Yousaf

Project Manager, Guarantee Engr.(Pvt)Ltd (Beaconhouse School System TNS 2 Gulberg-III Lahore)

**Client Reference:** TNS/GE/ST/005

**Dated:** 27-12-2021

**SOM Lab Ref:** CED/SOM/5545(Page-1/1)

**Dated:** 27-12-2021

**Test:** Tension Test & Bend Test

**Test Specification:** ASTM-A 615

**Sample Type:** M S Deformed Bar

**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	3.900	25	25.16	491	497	284.70	362.20	580	573	738	729	32.5	200	16.3	
2	3.950	25	25.31	491	503	244.70	331.70	498	487	676	660	32.5	200	16.3	
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**Witnessed By:** Tanveer Ahmad (Site Engr.)(33105-3442117-1)

**BEND TEST:**

25mm	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)

Naveena Steel Mills  
B-21 Banglore Town, Shahrah-e-Faisal Karachi.(NHA Projects)

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

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/5547(Page-1a/1)  
**Test:** Tension Test & Bend Test  
**Sample Type:** Deformed Bar

**Dated:** 27-12-2021  
**Dated:** 27-12-2021  
**Test Specification:** ASTM-A 615  
**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	4.895	28	28.19	616	624	325.00	412.00	528	521	669	661	25.0	200	12.5	
2	4.883	28	28.14	616	622	328.20	416.00	533	528	676	669	25.0	200	12.5	
3	3.870	25	25.06	491	493	265.00	336.00	540	538	684	682	30.0	200	15.0	
4	3.878	25	25.08	491	494	268.00	335.50	546	543	683	680	32.5	200	16.3	
5	3.039	22	22.20	380	387	206.00	254.20	542	533	669	657	32.5	200	16.3	
6	3.041	22	22.21	380	387	209.00	257.20	550	540	677	664	27.5	200	13.8	
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**BEND TEST:**

28mm	Sample bend through 180 degrees Satisfactorily without any crack	<b>Note:-</b>  Only Nine Samples Received and Tested
25mm	Sample bend through 180 degrees Satisfactorily without any crack	
22mm	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)

Naveena Steel Mills  
B-21 Banglore Town, Shahrah-e-Faisal Karachi.(NHA Projects)

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

**Client Reference:** Nil  
**SOM Lab Ref:** CED/SOM/5547(Page-1b/1)  
**Test:** Tension Test & Bend Test  
**Sample Type:** Deformed Bar

**Dated:** 27-12-2021  
**Dated:** 27-12-2021  
**Test Specification:** ASTM-A 615  
**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	2.451	20	19.93	314	312	178.20	226.20	567	572	720	725	30.0	200	15.0	
2	2.451	20	19.94	314	312	178.00	224.00	567	571	713	718	25.0	200	12.5	
3	1.608	16	16.15	201	205	109.00	132.00	542	533	657	645	35.0	200	17.5	
4	1.607	16	16.14	201	205	109.50	132.00	545	535	657	645	37.5	200	18.8	
5	0.888	12	12.00	113	113	60.70	76.00	537	537	672	673	22.5	200	11.3	
6	0.886	12	11.99	113	113	61.20	76.20	541	543	674	675	22.5	200	11.3	
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**BEND TEST:**

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

Mehmood Iqbal Cheema

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

RE ECSP.(Infrastructure Devl And Const.Of Affordable Housing Unit At Chak 48NB Sargodha)

Client Reference: ECSP/RE/SG/16

SOM Lab

Ref: 5541(Page-1/1)

Dated: 15-11-2021

Dated: 27-12-2021

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615

Gauge Length: 8 inch

Sample Type: Deformed Bar (Itafaq 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	1.515	6	0.753	0.44	0.445	14.85	20.29	74450	73610	101680	100540	1.20	8.0	15.0	
2	1.459	6	0.739	0.44	0.429	14.75	20.10	73940	75830	100760	103340	1.30	8.0	16.3	
3	1.063	5	0.630	0.31	0.312	9.81	13.63	69770	69320	96960	96340	1.20	8.0	15.0	
4	1.061	5	0.630	0.31	0.312	9.68	13.53	68900	68460	96240	95620	1.20	8.0	15.0	
5	0.645	4	0.492	0.20	0.190	6.32	8.79	69700	73360	96900	102000	1.00	8.0	12.5	
6	0.648	4	0.492	0.20	0.190	7.24	9.02	79810	84010	99480	104720	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 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)

Sikandar Sohail Maj For Co

Test Performed By: Dr. /Engr.

S. Asad Ali  
Gillani

21 Engr Bn Camp Area Ph-IX Near Ashiana Housing Sch Ihr C/O Sigcen Lahore Cantt.

Client Reference: 812/GEN

SOM Lab

Ref: 5543(Page-1/1)

Dated: 27-12-2021

Dated: 27-12-2021

Test: Tension Test &amp; 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	2.644	8	0.995	0.79	0.777	22.04	33.59	61530	62560	93770	95340	1.40	8.0	17.5	
2	2.641	8	0.994	0.79	0.776	21.83	33.30	60960	62060	92970	94650	1.40	8.0	17.5	
3	1.585	6	0.770	0.44	0.466	13.73	20.71	68830	64990	103830	98030	1.30	8.0	16.3	
4	1.593	6	0.772	0.44	0.468	13.76	20.80	68980	64850	104230	98000	1.30	8.0	16.3	
5	0.663	4	0.498	0.20	0.195	6.75	9.30	74420	76320	102520	105150	1.10	8.0	13.8	
6	0.664	4	0.498	0.20	0.195	6.83	9.23	75320	77250	101730	104340	1.20	8.0	15.0	
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**BEND TEST:**

# 8 Sample bend through 180 degrees Satisfactorily without any crack

# 6 Sample bend through 180 degrees Satisfactorily without any crack

# 4 Sample bend through 180 degrees Satisfactorily without any crack

**Note:-**Only Nine 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)

Muhammad Khalid Zaman  
 RE ECSP, Lahore. (Const. Of Disposal Station At Dijkot, Faisalabad)

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

**Client Reference:** ESP/CM-FSD/DJT-1

**SOM Lab**

**Ref:** 5546(Page-1/1)

**Dated:** 08-12-2021

**Dated:** 27-12-2021

**Test:** Tension Test & Bend Test

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

**Gauge Length:** 8 inch

**Sample Type:** Deformed Bar (Ravi 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	0.545	4	0.451	0.20	0.160	3.77	5.22	41590	51990	57560	71940	1.30	8.0	16.3	
2	0.555	4	0.456	0.20	0.163	3.79	5.37	41820	51310	59240	72690	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 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)

Ma Desheng

Test Performed By:

Dr. /Engr.

S. Asad Ali  
Gillani

PM State Grid CEPET.(500Kv D/C Transmission Line Nokhar S/S-Lahore North S/S-Lahore)

Client Reference: CET/ADB-301A/SEC-II/UET-21-234

SOM Lab

Ref: 5548(Page-1/1)

Dated: 27-12-2021

Dated: 27-12-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Kamran 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	27.88	36.72	77830	78730	102510	103690	1.30	8.0	16.3	
2	2.644	8	0.995	0.79	0.777	24.21	33.86	67590	68720	94540	96120	1.60	8.0	20.0	
3	1.503	6	0.750	0.44	0.442	13.83	19.16	69340	69020	96060	95630	1.30	8.0	16.3	
4	1.492	6	0.747	0.44	0.438	13.73	19.03	68830	69140	95400	95830	1.20	8.0	15.0	
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Witnessed By: Umair Khalid (NesPak)

**BEND TEST:**

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

Bricks Art,  
Architects,Engineers Contractors & Project Manager. (Site: DHA Lhore)

**Test Performed By:**

Dr. /Engr.

S. Asad Ali  
Gillani

**Client Reference:** BRICKS ART/020/07

**SOM Lab**

**Ref:** 5549(Page-1/1)

**Dated:** 27-12-2021

**Dated:** 27-12-2021

**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	2.692	8	1.004	0.79	0.791	28.75	40.77	80250	80150	113830	113690	1.20	8.0	15.0	
2	2.709	8	1.007	0.79	0.796	28.44	40.47	79400	78800	112980	112130	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 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)

Bricks Art,  
Architects,Engineers Contractors & Project Manager. (Site: DHA Lhore)

**Test Performed By:**

**Dr. /Engr.**

S. Asad Ali  
Gillani

**Client Reference:** BRICKS ART/020/07

**SOM Lab**

**Ref:**

5550-552(Page-2/2)

**Dated:** 27-12-2021

**Dated:**

27-12-2021

**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	1.508	6	0.751	0.44	0.443	14.85	22.88	74450	73940	114710	113930	1.20	8.0	15.0	
2	1.506	6	0.751	0.44	0.443	14.95	22.99	74960	74450	115220	114440	1.20	8.0	15.0	
3	0.635	4	0.488	0.20	0.187	6.01	9.25	66320	70930	101960	109040	1.00	8.0	12.5	
4	0.633	4	0.487	0.20	0.186	6.03	9.28	66550	71560	102290	109990	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 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)

Bricks Art,  
Architects,Engineers Contractors & Project Manager. (Site: DHA Lhore)

**Test Performed By:**

**Dr. /Engr.**

S. Asad Ali  
Gillani

**Client Reference:** BRICKS ART/020/07

**SOM Lab**

**Ref:** 5550-552(Page-1/2)

**Dated:** 27-12-2021

**Dated:** 27-12-2021

**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	2.654	8	0.997	0.79	0.780	25.20	41.18	70350	71250	114970	116440	1.10	8.0	13.8	
2	2.700	8	1.005	0.79	0.793	25.18	41.13	70290	70030	114830	114390	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 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)

M. Sohaib  
Lahore.

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

Client Reference: Nil

SOM Lab

Ref: 5551(Page-1/1)

Dated: 27-12-2021

Dated: 27-12-2021

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	1.425	6	0.730	0.44	0.419	10.57	17.02	52990	55640	85330	89610	1.30	8.0	16.3	
2	1.421	6	0.730	0.44	0.418	10.14	16.46	50840	53520	82520	86860	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**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)

Majeed Associates (Pvt.) Ltd.

Test Performed By:

Dr. /Engr.

S Asad Ali Gillani

Project: Allied Bank Ltd Warehouse At Pakpattan Road Sahiwal

Client Reference: Nil

SOM Lab

Ref:

5553(Page-1/1)

Dated: 27-12-2021

Dated:

27-12-2021

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 inch

Sample Type:

Deformed Bar (Afco 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	2.608	8	0.988	0.79	0.766	25.56	35.55	71350	73580	99230	102340	1.20	8.0	15.0	
2	2.583	8	0.983	0.79	0.759	25.30	35.55	70630	73520	99230	103290	1.30	8.0	16.3	
3	1.471	6	0.742	0.44	0.432	17.02	20.15	85330	86910	101020	102890	1.00	8.0	12.5	
4	1.483	6	0.745	0.44	0.436	16.48	20.03	82620	83380	100400	101320	1.00	8.0	12.5	
5	0.667	4	0.500	0.20	0.196	6.49	8.38	71610	73070	92400	94290	1.00	8.0	12.5	
6	0.669	4	0.501	0.20	0.197	6.47	8.33	71380	72470	91840	93240	0.90	8.0	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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)

M. Saleem  
Construction Company, Sheikhpura

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

Client Reference: Nil

SOM Lab

Ref: 5554(Page-1/1)

Dated: 27-12-2021

Dated: 27-12-2021

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	2.591	8	0.984	0.79	0.761	26.96	35.75	75270	78140	99800	103610	1.20	8.0	15.0	
2	0.675	4	0.502	0.20	0.198	6.65	9.25	73290	74030	101960	102990	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 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)