

Sheikhoo Steel Test Performed By: Dr. /Engr. Asad Ali Gillani
 Chief Tech Officer, Sheikhoo Sugar Mills (Steel Div), Anwar Abad Kot Addu, Muzaffargarh.

Client Reference: Nil Dated : 04-06-2023

SOM Lab Ref: CED/SOM/2342(Page-1/1) Dated : 05-06-2023

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	1.559	16	15.92	201	199	101.70	132.50	506	512	659	666	32.5	200	16.3	
2	1.555	16	15.88	201	198	102.00	132.70	507	515	660	670	35.0	200	17.5	
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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

Ahmad Ali Khan
 PM MECONS(Pvt) Ltd.(500/220KV Fsd Grid Station To 220Kv Lalian Grid Station)

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

Client Reference: MECONS/TLC-17/505

Dated : 05-06-2023

SOM Lab Ref: CED/SOM/2343(Page-1b/1)

Dated : 05-06-2023

Test: Tension Test & Bend Test

Test Specification: ASTM-A 615

Sample Type: Deformed Bar

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	2.953	22	21.88	380	376	176.20	243.20	464	469	640	647	37.5	200	18.8	
2	2.955	22	21.89	380	376	175.20	239.00	461	466	629	635	40.0	200	20.0	
3	1.582	16	16.02	201	202	97.70	132.50	486	485	659	658	37.5	200	18.8	
4	1.587	16	16.04	201	202	96.00	130.70	477	475	650	647	32.5	200	16.3	
5	0.991	12	12.68	113	126	66.70	87.50	590	529	774	694	30.0	200	15.0	
6	1.002	12	12.75	113	128	66.50	87.20	588	521	771	683	30.0	200	15.0	
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BEND TEST:

22mm	Sample bend through 180 degrees Satisfactorily without any crack	Note:- 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

Azhar Hussain Khan
MQA Ittefaq Iron Industries Ltd.Lahore

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

Client Reference: QC/Lab/24

SOM Lab

Ref: 2334 (Page-1/4)

Dated: 03-06-2023

Dated: 05-06-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Ittefaq 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	0.671	4	0.501	0.20	0.197	6.09	9.02	67110	68130	99480	101000	1.20	8.0	15.0	
2	0.670	4	0.501	0.20	0.197	6.07	9.04	66890	67900	99710	101230	1.10	8.0	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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

Azhar Hussain Khan
MQA Ittefaq Iron Industries Ltd.Lahore

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

Client Reference: QC/Lab/25

SOM Lab

Ref: 2334 (Page-2/4)

Dated: 03-06-2023

Dated: 05-06-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Ittefaq 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	1.041	5	0.624	0.31	0.306	9.00	13.91	64040	64880	98990	100290	1.50	8.00	18.8	
2	1.035	5	0.622	0.31	0.304	8.94	13.81	63600	64860	98270	100210	1.30	8.00	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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BEND TEST:

# 5	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

Azhar Hussain Khan
MQA Ittefaq Iron Industries Ltd.Lahore

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

Client Reference: QC/Lab/26

SOM Lab

Ref: 2334 (Page-3/4)

Dated: 03-06-2023

Dated: 05-06-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Ittefaq 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	1.488	6	0.746	0.44	0.437	13.58	20.39	68060	68530	102190	102890	1.50	8.0	18.8	
2	1.495	6	0.748	0.44	0.439	13.56	20.56	67960	68110	103060	103290	1.30	8.0	16.3	
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BEND TEST:

# 6	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

Azhar Hussain Khan
MQA Ittefaq Iron Industries Ltd.Lahore

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

Client Reference: QC/Lab/27

SOM Lab

Ref: 2334 (Page-4/4)

Dated: 03-06-2023

Dated: 05-06-2023

Test: Tension Test & Bend Test
inc

Test Specification:

ASTM-A-615

Gauge Length: 8 h

Sample Type:

Deformed Bar (Ittefaq 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	2.642	8	0.994	0.79	0.776	22.29	36.29	62240	63360	101310	103140	1.50	8.0	18.8	
2	2.643	8	0.995	0.79	0.777	22.21	35.85	62010	63050	100090	101760	1.50	8.0	18.8	
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BEND TEST:

# 8	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. Major Zia-UI-Islam ® Test Performed By: Dr. /Engr. Irfan UI Hassan
 PD GCC,Overseas Const.Co, Lahore.(Project Gulberg City Cerntre, Lahore)

Client Reference: OCC/Steel/

Dated: 05-06-2023

Test: Tension Test & Bend Test

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2335 (Page-1/1)

Dated: 05-06-2023

ASTM-A-615

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 ²	in ²	Tons	Tons	psi	psi	psi	psi	in	in	%		
1	0.672	4	0.501	0.20	0.197	7.14	8.87	78690	79890	97800	99290	1.10	8.0	13.8		
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BEND TEST:

# 4	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

Muhammad Umair Sajid
Sr.Engr (Civil) KCP PAEC.Kundian Chemical Plants P.O.KCP Colony Jauharabad)

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

Client Reference: KCP(W&S)-Hosp-(B-Wall-F)/2022

SOM Lab

Ref: 2336 (Page-1/1)

Dated: 02-06-2023

Dated: 05-06-2023

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	0.670	4	0.501	0.20	0.197	6.17	9.43	68010	69050	103980	105560	1.20	8.0	15.0	
2	0.671	4	0.501	0.20	0.197	6.09	9.23	67110	68130	101730	103280	1.20	8.0	15.0	
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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

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

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

Client Reference: 4598/13/SA/09/002

Dated: 29-05-2023

Test: Tension Test & Bend Test
inc

Gauge Length: 8 h

Test Specification:

Sample Type:

SOM Lab

Ref: 2338 (Page-1/1)

Dated: 05-06-2023

ASTM-A-615

Deformed Bar (Siddique
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	2.857	8	1.034	0.79	0.840	24.16	38.79	67450	63430	108280	101840	1.30	8.0	16.3	
2	2.725	8	1.010	0.79	0.801	22.78	37.23	63610	62730	103930	102500	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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BEND TEST:

# 8	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

Jawad Qayyum Khan,RE

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

NespaK Swl.(Const. Of Bypass From Royal Hotel to Sarwar Chowk Via Ada Mai Wali Masjid Sahiwal)

Client Reference: 4267/Sahiwal/ADP/Flyover/JQ/53

SOM Lab 2339,2429 (Page-

Ref: 1/1)

Dated: 15-05-2023

Dated: 05-06-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

Gauge Length: 8 h
inc

Sample Type:

Deformed Bar (Sheikhoo 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	2.64 1	8	0.99 4	0.7 9	0.77 6	24.94	34.73	69640	70900	96960	98710	1.5 0	8. 0	18. 8	
2	2.66 9	8	0.99 9	0.7 9	0.78 4	24.59	34.35	68640	69170	95900	96640	1.4 0	8. 0	17. 5	
3	1.49 0	6	0.74 7	0.4 4	0.43 8	13.93	19.06	69850	70170	95550	95990	1.5 0	8. 0	18. 8	
4	1.48 9	6	0.74 7	0.4 4	0.43 8	13.73	19.01	68830	69140	95290	95730	1.5 0	8. 0	18. 8	
5	1.05 8	5	0.62 9	0.3 1	0.31 1	9.91	13.27	70490	70270	94420	94120	1.6 0	8. 0	20. 0	
6	1.05 9	5	0.62 9	0.3 1	0.31 1	9.86	13.37	70130	69910	95150	94840	1.3 0	8. 0	16. 3	
7	0.67 0	4	0.50 1	0.2 0	0.19 7	6.68	8.63	73630	74750	95210	96660	1.3 0	8. 0	16. 3	
8	0.67 1	4	0.50 1	0.2 0	0.19 7	6.70	8.66	73850	74980	95550	97000	1.2 0	8. 0	15. 0	
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BEND TEST:

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

Meezan Developers
Lahore.(Const Of Jamia Tur Rasheed Lahore Campus)

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

Client Reference: Nil

SOM Lab

Ref: 2340 (Page-1/1)

Dated: 05-06-2023

Dated: 05-06-2023

Test: Tension Test & Bend Test

Test Specification:

ASTM-A-615

inc

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	2.615	8	0.989	0.79	0.768	27.62	34.68	77120	79330	96820	99590	1.40	8.0	17.5	
2	2.604	8	0.987	0.79	0.765	27.49	34.61	76750	79260	96620	99770	1.50	8.0	18.8	
3	1.471	6	0.742	0.44	0.432	14.17	18.96	71020	72340	95040	96800	1.30	8.0	16.3	
4	1.478	6	0.743	0.44	0.434	14.42	19.03	72300	73300	95400	96710	1.50	8.0	18.8	
5	0.659	4	0.497	0.20	0.194	7.82	9.48	86220	88890	104540	107770	1.00	8.0	12.5	
6	0.656	4	0.496	0.20	0.193	7.49	9.17	82620	85620	101170	104840	1.00	8.0	12.5	
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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

Hafiz Ozair Ahmad

Test Performed By: Dr. /Engr.

S. Asad Ali Gillani

Dy.Dir(QCD) WASA,LDA,Lhr.(Manufacturing Of R.C.C Manhole Covers WASA,LDA Lahore)

Client Reference: QCD/973-74

SOM Lab

Ref: 2341(Page-1/1)

Dated: 01-06-2023

Dated: 05-06-2023

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	0.673	4	0.502	0.20	0.198	4.64	6.95	51150	51670	76660	77440	1.20	8.0	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

BEND TEST:

# 4	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

Ahmad Ali Khan

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

PM MECONS(Pvt) Ltd.(500/220KV Fsd Grid Station To 220Kv Lalian Grid Station)

Client Reference: MECONS/TLC-17/505

SOM Lab

Ref: 2343 (Page-1a/1)

Dated: 05-06-2023

Dated: 05-06-2023

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	0.654	4	0.494	0.20	0.192	5.50	7.75	60700	63230	85430	88990	1.20	8.0	15.0	
2	0.668	4	0.500	0.20	0.196	5.50	7.80	60700	61940	85990	87750	1.30	8.0	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

H.M. Ahsan Saif,RE

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

VELOSI Engg.AIOU,Sahiwal.(Const Of AIOU Regional Campus Sahiwal)

Client Reference: VISP/135/AIOU/SWL/014

Dated: 30-05-2023

Test: Tension Test & Bend Test

Gauge Length: 8 inch

Test Specification:

Sample Type:

SOM Lab

Ref: 2344 (Page-1/1)

Dated: 05-06-2023

ASTM-A-615

Deformed Bar (Ittehad 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	1.489	6	0.747	0.44	0.438	14.02	17.74	70260	70580	88910	89310	1.40	8.0	17.5	
2	1.470	6	0.742	0.44	0.432	14.63	18.20	73320	74680	91210	92890	1.30	8.0	16.3	
3	0.667	4	0.500	0.20	0.196	5.63	8.15	62050	63320	89930	91760	1.30	8.0	16.3	
4	0.674	4	0.502	0.20	0.198	5.50	8.15	60700	61320	89930	90840	1.40	8.0	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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