Engr. Zaheer Ud Din Babar **Test Performed By:** **Dr. /Engr.** Irfan Ul Hasan

Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Client Reference: HRLE/SKG/2022/028 **Dated:** 27-05-2022

SOM Lab Ref: CED/SOM/391(Page-1/2) **Dated:** 30-05-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: M S Deformed Bar (AFCO 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	4.873	28	28.12	616	621	287.00	468.00	466	463	760	754	35.0	200	17.5	
2	4.964	28	28.38	616	632	262.50	414.00	426	416	672	655	37.5	200	18.8	
3	4.966	28	28.38	616	633	262.00	412.50	425	415	670	653	37.5	200	18.8	
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BEND TEST:

28mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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

Engr. Zaheer Ud Din Babar **Test Performed By:** **Dr. /Engr.** Irfan Ul Hasan

Dy.General Manager Projects,HRL.(Const Of Sky Gardens Tower, Lahore)

Client Reference: HRLE/SKG/2022/029 **Dated:** 27-05-2022

SOM Lab Ref: CED/SOM/391(Page-2/2) **Dated:** 30-05-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: M S Deformed Bar (AFCO 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	3.925	25	25.23	491	500	213.00	302.20	434	426	616	605	37.5	200	18.8	
2	3.875	25	25.07	491	494	223.00	313.70	454	452	639	636	37.5	200	18.8	
3	3.932	25	25.25	491	501	257.50	357.20	525	515	728	714	32.5	200	16.3	
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BEND TEST:

25mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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

M. Muneeb **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Planning & Coodination Engr. REDO Engg & Construction Pvt.Ltd. Lahore.(DIC Pakistan Ltd Kasur)

Client Reference: Nil **Dated:** 27-05-2022

SOM Lab Ref: CED/SOM/393(Page-1/1) **Dated:** 30-05-2022

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^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.226	20	19.02	314	284	157.50	198.20	501	555	631	698	30.0	200	15.0	
2	2.215	20	18.95	314	282	155.00	194.50	493	550	619	690	32.5	200	16.3	
3	1.545	16	15.83	201	197	112.00	138.00	557	570	686	702	30.0	200	15.0	
4	1.546	16	15.84	201	197	113.00	138.50	562	574	689	704	27.5	200	13.8	
5	0.985	12	12.64	113	126	72.00	89.20	637	574	789	711	25.0	200	12.5	
6	0.977	12	12.59	113	124	69.20	87.20	612	556	771	701	22.5	200	11.3	
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BEND TEST:

20mm	Sample bend through 180 degrees Satisfactorily without any crack
16mm	Sample bend through 180 degrees Satisfactorily without any crack
12mm	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Nine Samples Received and Tested

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

Zafar Iqbal Ahmad **Test Performed By:** **Dr. /Engr.** Irfan Ul Hasan

Admin Manager Ivcc Pvt Ltd Lahore.(Const Of Starch Pack Green Field Kasur)

Client Reference: Nil **Dated:** 27-05-2022

SOM Lab Ref: CED/SOM/384-389(Page-1/1) **Dated:** 27-05-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A 615

Sample Type: 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^2	mm^2	kN	kN	MPa	MPa	MPa	MPa	mm	mm	%	
1	2.262	20	19.15	314	288	168.70	205.00	537	586	653	712	32.5	200	16.3	
2	2.374	20	19.62	314	302	160.50	199.20	511	531	634	659	30.0	200	15.0	
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BEND TEST:

20mm	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

Rana Muhammad Naeem **Test Performed By:** **Dr. /Engr.** Irfan Ul Hasan

Alliance Engg & Contractors.(Const Of Commercial Bldg At Plot # 184 Block-S QIE(Kot Lakh Pat)

Client Reference: AEC/UETL/0280520220/03 **SOM Lab Ref:** 388 (Page-1/1)

Dated: 28-05-2022 **Dated:** 30-05-2022

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	0.702	4	0.512	0.20	0.206	6.37	8.87	70260	68210	97800	94950	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

Engr. Naveed Sadiq **Test Performed By:** **Dr. /Engr.** Irfan Ul Hasan

RE Orbit Developers.Lahore.(The Springs Gulberg Lahore)

Client Reference: Nil **SOM Lab Ref:** 390 (Page-1/1)

Dated: 30-05-2022 **Dated:** 30-05-2022

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.479	6	0.744	0.44	0.435	15.55	19.32	77920	78820	96830	97940	1.30	8.0	16.3	
2	1.483	6	0.745	0.44	0.436	15.60	19.01	78180	78890	95290	96170	1.20	8.0	15.0	
3	0.665	4	0.498	0.20	0.195	7.00	8.77	77230	79210	96670	99150	1.10	8.0	13.8	
4	0.665	4	0.498	0.20	0.195	7.10	8.94	78350	80360	98580	101110	1.00	8.0	12.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Hafiz Ozair Ahmad **Test Performed By:** **Dr. /Engr.** Nauman Khurram

Dy.Dir(QCD) WASA,LDA,Lhr.(Drainage Arrangement For Sorepoint At Sherawala Gate Lahore.)

Client Reference: QCD/1254-55 **SOM Lab Ref:** 392 (Page-1/1)

Dated: 26-05-2022 **Dated:** 30-05-2022

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	1.463	6	0.740	0.44	0.430	12.13	18.50	60810	62220	92740	94900	1.00	8.0	12.5	
2	1.462	6	0.740	0.44	0.430	12.03	18.37	60290	61700	92070	94220	1.30	8.0	16.3	
3	0.673	4	0.502	0.20	0.198	5.45	8.23	60140	60750	90720	91630	0.90	8.0	11.3	
4	0.676	4	0.503	0.20	0.199	5.27	8.10	58120	58410	89370	89820	1.00	8.0	12.5	
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BEND TEST:

# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 4	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Six Samples Received and Tested

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

Asif Pervaiz Butt
RE AYQ Developers Pvt. Ltd.(Union Copmlex)

Test Performed By: **Dr. /Engr.** Nauman Khurram

Client Reference: Nil
Dated: 27-05-2022

SOM Lab Ref: 394 (Page-1/1)
Dated: 30-05-2022

Test: Tension Test & Bend Test
Gauge Length: 8 inch

Test Specification: ASTM-A-615
Sample Type: Deformed Bar (AF 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	2.606	8	0.988	0.79	0.766	25.79	32.54	72000	74260	90840	93690	1.20	8.0	15.0	
2	2.593	8	0.985	0.79	0.762	22.17	28.77	61900	64170	80310	83260	1.60	8.0	20.0	
3	2.593	8	0.985	0.79	0.762	25.18	30.78	70290	72880	85940	89100	0.80	8.0	10.0	
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BEND TEST:

# 8	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Four Samples Received and Tested

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

Engr. Shahid Hussain **Test Performed By:** **Dr. /Engr.** Nauman Khurram

PD GC Uni Fsd(Const.Of Advance Studies Block; Day Care Center & Admin Deptt. At Main Campus)

Client Reference: GCUF/EC/4188 **SOM Lab Ref:** 395 (Page-1/2)

Dated: 19-04-2022 **Dated:** 30-05-2022

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.736	8	1.012	0.79	0.804	29.79	36.14	83160	81710	100880	99130	1.20	8.0	15.0	
2	2.735	8	1.012	0.79	0.804	29.97	36.54	83670	82210	102020	100250	1.00	8.0	12.5	
3	1.484	6	0.745	0.44	0.436	15.39	19.03	77160	77860	95400	96270	1.10	8.0	13.8	
4	1.480	6	0.744	0.44	0.435	15.41	19.08	77260	78150	95650	96750	1.10	8.0	13.8	
5	0.674	4	0.502	0.20	0.198	6.68	8.79	73630	74370	96900	97880	1.10	8.0	13.8	
6	0.671	4	0.501	0.20	0.197	6.52	8.66	71940	73040	95550	97000	1.10	8.0	13.8	
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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 Tested

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

Engr. Shahid Hussain **Test Performed By:** **Dr. /Engr.** Nauman Khurram

PD GC Uni Fsd.(Const.Of Dr. Arif Zaidi Block At Main Campus GCU, Faisalabad)

Client Reference: GCUF/EC/4237 **SOM Lab Ref:** 395 (Page-2/2)

Dated: 28-04-2022 **Dated:** 30-05-2022

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.678	8	1.001	0.79	0.787	29.38	36.31	82020	82330	101370	101750	1.30	8.0	16.3	
2	2.690	8	1.004	0.79	0.791	29.56	36.41	82530	82430	101650	101520	1.00	8.0	12.5	
3	1.502	6	0.749	0.44	0.441	16.43	20.15	82370	82180	101020	100790	1.10	8.0	13.8	
4	1.491	6	0.747	0.44	0.438	15.67	19.24	78530	78890	96420	96860	1.20	8.0	15.0	
5	0.680	4	0.505	0.20	0.200	6.52	8.77	71940	71940	96670	96670	1.00	8.0	12.5	
6	0.683	4	0.506	0.20	0.201	6.75	8.89	74420	74050	98020	97530	1.10	8.0	13.8	
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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 Tested

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

Amara Faizan

Aenzay® Lahore.(Estb Of House Construction)

Test Performed By: **Dr. /Engr.** Nauman Khurram

Client Reference: DHA Phase-8/Sector-s/Lahore

Dated: 30-05-2022

SOM Lab Ref: 396 (Page-1/1)

Dated: 30-05-2022

Test: Tension Test & Bend Test

Test Specification: ASTM-A-615 (H # F-150322-22)

Gauge Length: 8 inch

Sample Type: Deformed Bar (Mughal Supreme)

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	0.660	4	0.497	0.20	0.194	7.44	8.99	82060	84600	99150	102210	1.10	8.0	13.8	
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BEND TEST:

--	No Bend test performed

Note:-

Only One Sample Received and Tested

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

Sub Divisional officer, **Test Performed By:** **Dr. /Engr.** Nauman Khurram

BSD No.22 Lhr.(Const Of Population Welfare House Punjab, At Lahore)

Client Reference: 104/22nd **SOM Lab Ref:** 397 (Page-1/1)

Dated: 28-05-2022 **Dated:** 30-05-2022

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.637	8	0.993	0.79	0.775	27.03	33.79	75470	76930	94340	96170	1.50	8.0	18.8	
2	2.660	8	0.998	0.79	0.782	27.01	33.84	75420	76190	94480	95450	1.20	8.0	15.0	
3	1.480	6	0.744	0.44	0.435	15.72	19.47	78790	79700	97590	98710	1.20	8.0	15.0	
4	1.483	6	0.745	0.44	0.436	15.70	19.34	78690	79410	96930	97820	1.20	8.0	15.0	
5	0.672	4	0.501	0.20	0.197	6.93	8.69	76440	77600	95770	97230	1.00	8.0	12.5	
6	0.665	4	0.498	0.20	0.195	7.08	8.66	78130	80130	95550	98000	0.90	8.0	11.3	
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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 Tested

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

Guarantee Engineers Pvt.Ltd. **Test Performed By:** **Dr. /Engr.** Nauman Khurram
PM Shifa Development Srvices Faisalabad.

Client Reference: SNHF/SDS/ST/04 **SOM Lab Ref:** 398 (Page-1/1)
Dated: 30-05-2022 **Dated:** 30-05-2022

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^2	in^2	Tons	Tons	psi	psi	psi	psi	in	in	%	
1	2.627	8	0.991	0.79	0.772	23.19	34.02	64740	66250	94970	97180	1.20	8.0	15.0	
2	2.639	8	0.994	0.79	0.776	23.11	33.66	64520	65680	93970	95660	1.50	8.0	18.8	
3	1.493	6	0.748	0.44	0.439	15.04	20.76	75370	75540	104080	104320	1.00	8.0	12.5	
4	1.482	6	0.745	0.44	0.436	14.80	20.69	74190	74870	103720	104680	1.00	8.0	12.5	
5	1.456	6	0.738	0.44	0.428	12.64	18.93	63360	65140	94880	97540	1.30	8.0	16.3	
6	1.453	6	0.737	0.44	0.427	12.51	18.73	62700	64600	93860	96720	1.20	8.0	15.0	
7	2.626	8	0.991	0.79	0.772	23.52	34.22	65650	67190	95530	97760	1.30	8.0	16.3	
8	2.627	8	0.991	0.79	0.772	23.34	33.84	65170	66690	94480	96680	1.40	8.0	17.5	
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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
# 6	Sample bend through 180 degrees Satisfactorily without any crack
# 8	Sample bend through 180 degrees Satisfactorily without any crack

Note:-

Only Twelve Samples Received and Tested

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

Syed Sarfaraz Haider **Test Performed By:** **Dr. /Engr.** Nauman Khurram

CRE (TCI) Karachi.(Construction Of Nai Gaj Dam Project)

Client Reference: CRE/NGDP/247 **SOM Lab Ref:** 399 (Page-1/1)

Dated: 30-05-2022 **Dated:** 30-05-2022

Test: Tension Test & Bend Test **Test Specification:** ASTM-A-615 (H # F-150322-22)

Gauge Length: 8 inch **Sample Type:** Deformed Bar (Faizan 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	1.464	6	0.740	0.44	0.430	12.30	17.25	61670	63110	86450	88460	1.30	8.0	16.3	
2	1.459	6	0.739	0.44	0.429	12.30	17.45	61670	63260	87480	89720	1.40	8.0	17.5	
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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