



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Superintending Engr
 ACE 4 Corps
 Lahore Cantt

Reference # CED/TFL **37531** (Dr. Rizwan Azam)
 Reference of the request letter # 286/S.School/10/E-2

Dated: 17-12-2021
 Dated: 15-12-2021

Tension Test Report (Page -1/1)

Date of Test 20-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.385	3/8	0.380	0.11	0.113	4200	5200	84200	81710	104200	101200	1.10	13.8	
2	0.381	3/8	0.378	0.11	0.112	4100	5000	82200	80720	100200	98500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 ACES (Pvt) Ltd
 Civil Infrastructure Development Works DHA Multan

Reference # CED/TFL 37532 (Dr. Rizwan Azam)
 Reference of the request letter # ACE-DHAM-NLC-079

Dated: 17-12-2021
 Dated: 15-12-2021

Tension Test Report (Page -1/1)

Date of Test 20-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.102	5	4.97	-----	0.030	1000	1240	-----	73180	-----	90800	1.00	12.5	Ali Steel
2	0.102	5	4.96	-----	0.030	1000	1240	-----	73580	-----	91300	1.00	12.5	
3	0.142	6	5.87	-----	0.042	1120	1320	-----	58940	-----	69500	1.40	15.0	
4	0.139	6	5.79	-----	0.041	1360	1600	-----	73400	-----	86400	1.10	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only four samples for tensile and two samples for bend test

Bend Test

5mm Dia Bar Bend Test Through 180° is Satisfactory

6mm Dia Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer-2
 ACES (Pvt) Ltd
 Sector-V DHA Multan

Reference # CED/TFL 37533 (Dr. Rizwan Azam)
 Reference of the request letter # ACES/DHAM/DEV/CT/47

Dated: 17-12-2021
 Dated: 25-11-2021

Tension Test Report (Page -1/1)

Date of Test 20-12-2021
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A496

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.214	6	5.89	32.30	27.27	1080	1400	328	389	425	504	Ali Brother
2	0.211	6	5.85	32.30	26.90	1000	1320	304	365	401	481	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test												
Bend Test												
6mm Dia Bar Bend Test Through 180° is Satisfactory												

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Construction Manager
 Elite Engineering Limited
 Sitara Heights 3-Jays Tower

Reference # CED/TFL **37534** (Dr. Rizwan Azam)
 Reference of the request letter # Nil

Dated: 17-12-2021
 Dated: 13-12-2021

Tension Test Report (Page -1/1)

Date of Test 20-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.368	3	0.371	0.11	0.108	3200	4500	64200	65150	90200	91700	1.30	16.3	
2	0.367	3	0.371	0.11	0.108	3200	4700	64200	65350	94200	96000	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

M Fayyaz Rasul (Site Engineer Sitar Height (Pvt) Limited)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Team Leader - JIPIC
 Project Implement Consultants (PICs)
 Jalalpur Irrigation Project (JIP)
 Construction of Main (RD 225+500 to RD 379+750) including Distribution Suystem and Flood
 Carrier Channels Cross Drainage Structures Roads, Bridge etc Contract No. JIP/WKS/ICB-P3

Reference # CED/TFL **37535** (Dr. Rizwan Azam)
 Reference of the request letter # JIPIC/2.18/2844

Dated: 17-12-2021
 Dated: 17-12-2021

Tension Test Report (Page -1/1)

Date of Test 20-16-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	4.211	10	1.255	1.27	1.238	40000	55600	69500	71220	96500	99000	1.30	16.3	
2	4.272	10	1.264	1.27	1.256	40800	57400	70900	71610	99700	100800	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Building Sub Division
 Shujabad
 (Const. of Pavilion Football Ground, Prayer Room, Shifting of Flood Light Poles and Re-Const.
 of Boundary Wall in District Sports Complex Multan)

Reference # CED/TFL **37536** (Dr. Rizwan Azam)
 Reference of the request letter # 273/Shujabad

Dated: 17-12-2021
 Dated: 29-09-2021

Tension Test Report (Page -1/2)

Date of Test 20-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.371	3/8	0.373	0.11	0.109	3600	5000	72200	72690	100200	101000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Sub Divisional Officer
 Building Sub Division
 Shujabad
 (Construction of Academic Block, Boundary Wall & Toilets in Govt. Girls Primary School
 Jungle Khan Muhammad & Govt. Boys Primary School Jungle Khan Muhammad for Up
 Gradation of Primary School to Elementary School District Multan
 Reference # CED/TFL **37536** (Dr. Rizwan Azam) Dated: 17-12-2021
 Reference of the request letter # 478/Shujabad Dated: 08-12-2021

Tension Test Report (Page -2/2)

Date of Test 20-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.373	3/8	0.374	0.11	0.110	3400	4900	68200	68360	98200	98600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S Ittefaq Building Solutions (Pvt) Ltd
Lahore
(Sapphire Diamond Ferozwatwan (New Apparel Village) including)

Reference # CED/TFL 37537 (Dr. Rizwan Azam)
Reference of the request letter # IBS/SD/ST21

Dated: 17-12-2021
Dated: 17-12-2021

Tension Test Report (Page -1/1)

Date of Test 20-12-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.345	3	0.359	0.11	0.101	4200	5200	84200	91380	104200	113200	1.00	12.5	
2	0.346	3	0.360	0.11	0.102	4000	5100	80200	86730	102200	110600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 M/S Defence Housing Authority.
 Lahore Cantt
 (Extn of Coffee Lounge, Kichen & Washroom at J Club DHA Ph-1) – (M/s UCC)

Reference # CED/TFL **37538** (Dr. Rizwan Azam)
 Reference of the request letter # 408/241/E/Lab/187/119

Dated: 17-12-2021
 Dated: 17-12-2021

Tension Test Report (Page -1/1)

Date of Test 20-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.378	3	0.376	0.11	0.111	3500	4800	70200	69430	96200	95300	1.00	12.5	Model Steel
2	0.378	3	0.376	0.11	0.111	3500	4800	70200	69470	96200	95300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Project Manager
 Liberty Builders.
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Rd. Lahore.

Reference # CED/TFL **37542** (Dr. Rizwan Azam)
 Reference of the request letter # ST/UET/20211220

Dated: 20-12-2021
 Dated: 20-12-2021

Tension Test Report (Page -1/1)

Date of Test 20-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.383	3	0.379	0.11	0.113	3400	5700	68200	66500	114300	111500	1.20	15.0	Batala Premium
2	0.376	3	0.375	0.11	0.110	3200	4700	64200	63830	94200	93800	1.20	15.0	
3	0.378	3	0.376	0.11	0.111	3200	4800	64200	63530	96200	95300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Tariq Alvi
 892 FF City Housing Gujranwala.

Reference # CED/TFL **37545** (Dr. Rizwan Azam)
 Reference of the request letter # Nil

Dated: 20-12-2021

Dated: 20-12-2021

Tension Test Report (Page -1/1)

Date of Test 20-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.421	3	0.397	0.11	0.124	4100	5300	82200	72960	106200	94400	1.30	16.3	Agha Steel
2	0.419	3	0.396	0.11	0.123	4200	5100	84200	75190	102200	91300	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 ACE Limited, Multan.
 (Establishment Of Civil Secretariat Multan & Allied Works)
 Reference # CED/TFL **37546** (Dr. Rizwan Azam)
 Reference of the request letter # ACE/RE/CSM/2021/009

Dated: 20-12-2021
 Dated: 17-12-2021

Tension Test Report (Page -1/1)

Date of Test 20-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.376	3	0.375	0.11	0.110	3400	4900	68200	67870	98200	97900	1.20	15.0	Mughal Steel
2	0.386	3	0.380	0.11	0.113	3600	5100	72200	69950	102200	99100	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
 Acting Chief Resident Engineer
 Trimmu Barrage, Distt. Jhang..

Reference # CED/TFL **37547** (Dr. Rizwan Azam)
 Reference of the request letter # TPBC/CRE/NCB-01/2529

Dated: 20-12-2021
 Dated: 17-12-2021

Tension Test Report (Page -1/1)

Date of Test 20-12-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.371	3	0.372	0.11	0.109	3300	5200	66200	66790	104200	105300	1.20	15.0	Fazal Steel
2	0.369	3	0.372	0.11	0.109	3300	5200	66200	66990	104200	105600	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2- The above results pertain to sample /samples supplied to this laboratory.
- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples