



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

To,  
 Deputy CRE  
 Zeeruk International (Pvt) Ltd  
 Lahore Sialkot Motorway Project  
 (M/s Munir Industries Lahore)(M/s Sha Engineering (Pvt) Ltd (RD: 82+300 to 86+300 (Right Sides), 86+300 to 87+200 (Right Side), 76+625 to 76+025 (Left Side), 90+000 to 91+600 (Left Side)

Reference # CED/TFL **34409** (Dr. Ali Ahmed)

Dated: 31-12-2019

Reference of the request letter # LSM/RE-II/Str/19/836

Dated: 31-12-2019

**Tension Test Report** (Page – 1/1)

Date of Test 14-01-2020

Gauge length 2 inches

Description Steel W- Beam & Steel Post Strip Tensile Test

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
1	Steel W- Beam	2.10x0.28	0.59	3200	4700	5442	7993	0.30	15.00	S # 1
2		2.10x0.28	0.59	3200	4700	5442	7993	0.30	15.00	
3	Steel W- Beam	2.10x0.28	0.59	3300	4700	5612	7993	0.30	15.00	S # 2
4		2.10x0.28	0.59	3100	4700	5272	7993	0.30	15.00	
5	Steel Post	2.10x0.70	1.47	6500	8400	4422	5714	0.55	27.50	S # 1
6		2.10x0.70	1.47	6800	8500	4626	5782	0.60	30.00	
7	Steel Post	2.10x0.70	1.47	6800	8400	4626	5714	0.60	30.00	S # 2
8		2.10x0.70	1.47	6800	8400	4626	5714	0.55	27.50	

**Only Eight Samples for Tensile Test**

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**Bend Test**

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**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

**Note:**

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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Chief Engineer (HVDC) NTDC  
 National Transmission & Despatch Company Ltd  
 +600 kV HVDC Matiari Lahore Transmission Project  
 (Lot-05)(Kamran Steel)  
 Reference # CED/TFL **34449** (Dr. M Rizwan Riaz)  
 Reference of the request letter # 8727-30/CE/HVDC/LHR

Dated: 09-01-2020  
 Dated: 09-01-2020

**Tension Test Report** (Page -1/1)

Date of Test 14-01-2020  
 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 <sup>2</sup> )		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	0.374	3	0.374	0.11	0.110	3310	4940	66400	66280	99000	99000	1.20	15.0	
2	0.369	3	0.372	0.11	0.109	3310	4840	66400	67190	97000	98300	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Engr. Muaz Yasir (NTDC), M. Bilal Butt (OE) & M Amir (CET)

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
Resident Engineer  
TECHNO Consultant Internatiomnal (POvt) Ltd  
CPEC Package-1

Reference # CED/TFL **34451** (Dr. Ali Ahmed)  
Reference of the request letter # RE/CPEC/DIK/2020/614

Dated: 09-01-2020  
Dated: 04-01-2020

**Tension Test Report** (Page – 1/1)

Date of Test 14-01-2020  
Gauge length -----  
Description Chain Link Fabric Wire and Tension Wire Tensile Test

Sr. No.	Diameter of Single Wire	Breaking Load		Remarks
	(mm)	(kg)	(kN)	
1	3.30	400	3.92	Chain Link Fabric Wire
2	3.30	720	7.06	Tension Wire
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
<b>Only Two Samples for Test</b>				

**I/C Testing Laboratoires**  
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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Resident Engineer  
 NESPAK  
 Construction of Entry Gate of Lahore at Thokar Niaz Baig Multan Road, Lahore

Reference # CED/TFL **34454** (Dr. Ali Ahmed) Dated: 10-01-2020  
 Reference of the request letter # 4047-R/13/SNH/07/AHC/154 Dated: 05-12-2019

**Tension Test Report** (Page -1/1)

Date of Test 14-01-2020  
 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 <sup>2</sup> )		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	3200	5000	64200	64730	100200	101200	1.20	15.0	
2	0.367	3	0.371	0.11	0.108	3200	5000	64200	65360	100200	102200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Test Floor Laboratory**  
**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
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To,  
 D.G.M Civil  
 Nishat Hotel & Properties Limited  
 28 Main Project

Reference # CED/TFL **34455** (Dr. Ali Ahmed)  
 Reference of the request letter # NHP/28M/ST/01

Dated: 10-01-2020  
 Dated: 17-12-2019

**Tension Test Report** (Page -1/1)

Date of Test 14-01-2020  
 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 <sup>2</sup> )		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	0.393	3	0.384	0.11	0.116	4200	5400	84200	80060	108200	103000	0.90	11.3	
2	0.392	3	0.383	0.11	0.115	4200	5400	84200	80240	108200	103200	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only two samples for tensile and one sample for bend test</b>														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**University of Engineering and Technology Lahore, 54890**  
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To,  
Executive – Civil Works (TS)  
FFC Rawalpindi

Reference # CED/TFL **34457** (Dr. Ali Ahmed)  
Reference of the request letter # FFC/CW/TSC/43/Altec

Dated: 10-01-2020

Dated: 08-01-2020

**Tension Test Report** (Page – 1/1)

Date of Test 14-01-2020  
Gauge length -----  
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load		Remarks / Coil No.
	(mm)	(kg/km)	(kg)	(kN)	
1	8	266.46	5300	51.99	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
<b>Only one sample for Test</b>					

**I/C Testing Laboratories**  
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**STRUCTURAL ENGINEERING DIVISION**  
**Test Floor Laboratory**  
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**University of Engineering and Technology Lahore, 54890**  
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To,  
 Assistant Engineer (UCET)  
 University of Sargodha  
 (Construction Academic Block (Mechanical) at University College of Engineering &  
 Technology, University of Sargodha)

Reference # CED/TFL **34458** (Dr. Ali Ahmed)  
 Reference of the request letter # SU/XEN(UCET)/562

Dated: 10-01-2020  
 Dated: 09-01-2020

**Tension Test Report** (Page -1/1)

Date of Test 14-01-2020  
 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 <sup>2</sup> )		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	0.367	3/8	0.371	0.11	0.108	3600	4900	72200	73530	98200	100100	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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

To,  
Resident Engineer  
Al-Imam Enterprises Pvt Ltd  
Construction of Penta Square, Phase-V, D.H.A, Lahore

Reference # CED/TFL **34464** (Dr. Asfeer Abbass)

Dated: 13-01-2020

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1035

Dated: 13-01-2020

**Tension Test Report** (Page – 1/2)

Date of Test 14-01-2020

Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity 'E'	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	775.0	784	18200	178.54	20200	198.16	199	>3.50	xx
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
<b>Only one sample for Test</b>										

Note:

1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

**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  
Al-Imam Enterprises Pvt Ltd  
Construction of Penta Square, Phase-V, D.H.A, Lahore

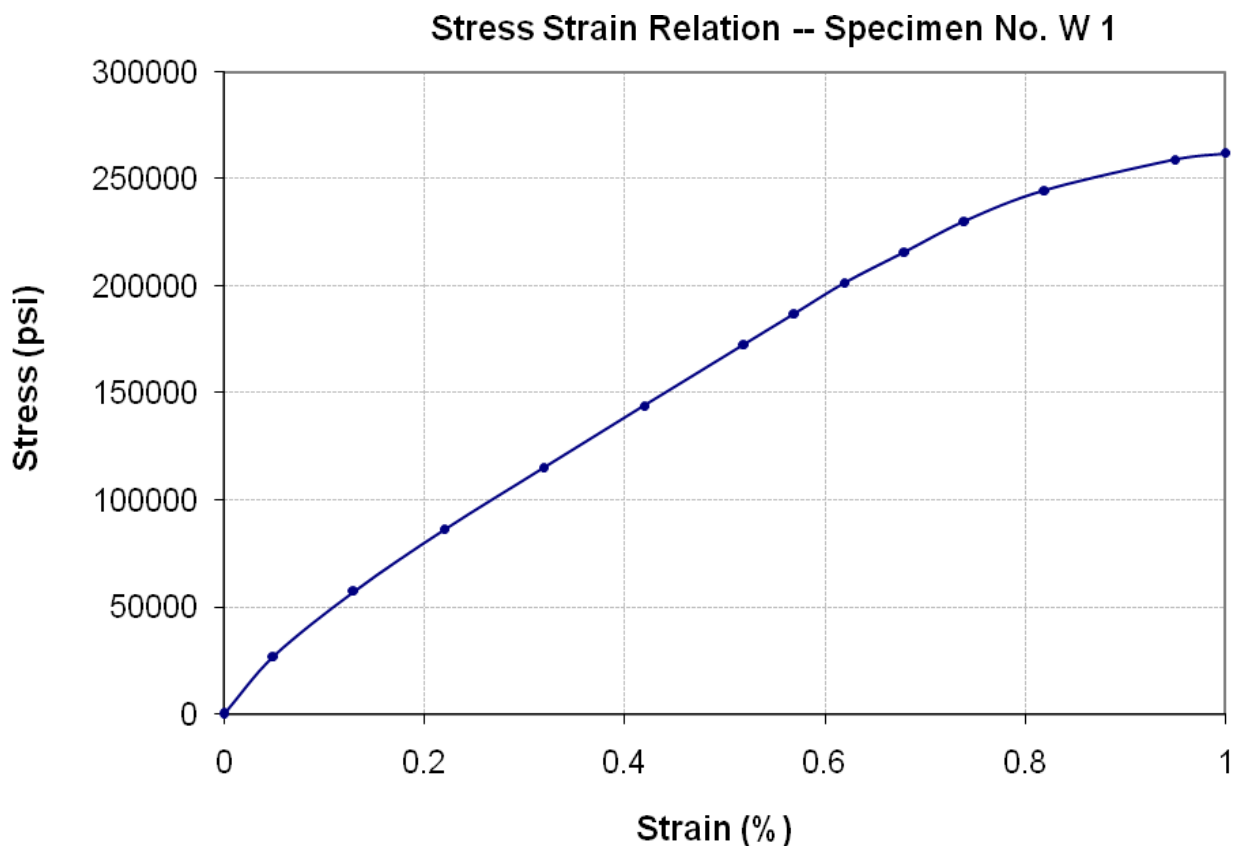
Reference # CED/TFL **34464** (Dr. Asfeer Abbass)

Dated: 13-01-2020

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/1035

Dated: 13-01-2020

**Graph** (Page – 2/2)



**I/C Testing Laboratories**  
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To,  
 Assistant Engineer (Civil)  
 GC University Faisalabad  
 (Construction of External Development for Chiniot Campus of Government College University,  
 Faisalabad)

Reference # CED/TFL **34465** (Dr. Ali Ahmed)  
 Reference of the request letter # GCUF/EC/1894

Dated: 13-01-2020  
 Dated: 24-12-2019

**Tension Test Report** (Page -1/1)

Date of Test 14-01-2020  
 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 <sup>2</sup> )		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	0.382	3/8	0.378	0.11	0.112	3200	4100	64200	62800	82200	80500	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Department of Civil Engineering**  
**University of Engineering and Technology Lahore, 54890**  
**Pakistan. Ph: 92-42-99029202**

To,  
 Assistant Director, (North)  
 Sub Div : Gulgasht  
 WASA (MDA) Multan  
 (Providing & Laying/ Rehabilitation of Sewer Lines in UC 1, 4, 5, 67 & 68 Multan)

Reference # CED/TFL **34467** (Dr. Ali Ahmed)  
 Reference of the request letter # 35/AD(N)/WASA

Dated: 13-01-2020  
 Dated: 19-12-2019

**Tension Test Report** (Page -1/1)

Date of Test 14-01-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Pipe Diameter
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.089	3/16	0.183	-----	0.026	880	1080	-----	74050	-----	90900	0.50	6.3	
.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
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.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
<b>Note: only one sample for tensile test</b>														
Bend Test														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

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**Pakistan. Ph: 92-42-99029202**

To,  
 Sub Divisional Officer  
 Building Sub Division  
 Depalpur  
 (Const: of Additional Class Rooms Under DFID (UK) Project in Punjab (One at Govt. Girls Primary School 43/SP Nai abadi Depalpur)(Tueseef Ahmed)  
 Reference # CED/TFL **34468** (Dr. Ali Ahmed)  
 Reference of the request letter # 552/SDO/OK

Dated: 13-01-2020  
 Dated: 28-12-2019

**Tension Test Report** (Page -1/10)

Date of Test 14-01-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.375	3/8	0.375	0.11	0.110	3900	5100	78200	77910	102200	101900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

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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  
 Depalpur  
 (Const: of Additional Class Rooms Under DFID (UK) Project in Punjab (One at Govt. Girls Primary School at Kandu wal)(Muhammad Tauseef)

Reference # CED/TFL **34468** (Dr. Ali Ahmed)  
 Reference of the request letter # 553/SDO/OK

Dated: 13-01-2020  
 Dated: 28-12-2019

**Tension Test Report** (Page -2/10)

Date of Test 14-01-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.376	3/8	0.375	0.11	0.111	3700	5000	74200	73720	100200	99700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

**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](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.
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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  
 Okara  
 (Const: of Additional Class Rooms Under DFID (UK) Project in Punjab (One at Govt. Primary School Chakar Kay Par Renala Disst. Okara)(Amir Mumtaz)

Reference # CED/TFL **34468** (Dr. Ali Ahmed)  
 Reference of the request letter # 557/SDO/OK

Dated: 13-01-2020  
 Dated: 28-12-2019

**Tension Test Report** (Page -3/10)

Date of Test 14-01-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.375	3/8	0.375	0.11	0.110	4100	5100	82200	81880	102200	101900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

**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](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,  
 Sub Divisional Officer  
 Building Sub Division  
 Okara  
 (Const: of Additional Class Rooms Under DFID (UK) Project in Punjab (One at Govt. Primary School 18/1-AI Tehsil Renala Disst. Okara)(Malik Khalid)

Reference # CED/TFL **34468** (Dr. Ali Ahmed)  
 Reference of the request letter # 556/SDO/OK

Dated: 13-01-2020  
 Dated: 28-12-2019

**Tension Test Report** (Page -4/10)

Date of Test 14-01-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	4000	5100	80200	80320	102200	102500	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

**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](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,  
 Sub Divisional Officer  
 Building Sub Division  
 Depalpur  
 (Const: of Additional Class Rooms Under DFID (UK) Project in Punjab (One at Govt. Girls Primary School Mustafabad Depalpur) (Tuseef Ashraf)

Reference # CED/TFL **34468** (Dr. Ali Ahmed)  
 Reference of the request letter # 555/SDO/OK

Dated: 13-01-2020  
 Dated: 28-12-2019

**Tension Test Report** (Page -5/10)

Date of Test 14-01-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.376	3/8	0.375	0.11	0.111	4000	5000	80200	79780	100200	99800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

**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](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,  
 Sub Divisional Officer  
 Building Sub Division  
 Okara  
 (Const: of Additional Class Rooms Under DFID (UK) Project in Punjab (One at Govt. Girls Primary School K. Plot Okara)(Amir Momtaz)

Reference # CED/TFL **34468** (Dr. Ali Ahmed)  
 Reference of the request letter # 554/SDO/OK

Dated: 13-01-2020  
 Dated: 28-12-2019

**Tension Test Report** (Page -6/10)

Date of Test 14-01-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.377	3/8	0.376	0.11	0.111	3900	5100	78200	77510	102200	101400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

**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](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,  
 Sub Divisional Officer  
 Building Sub Division  
 Depalpur  
 (Const: of Additional Class Rooms Under DFID (UK) Project in Punjab (One at Govt. Girls Primary School Chalan wali Mandi Ahmedabad, Depalpur)(Muhammad Bilal)

Reference # CED/TFL **34468** (Dr. Ali Ahmed)  
 Reference of the request letter # 549/SDO/OK

Dated: 13-01-2020  
 Dated: 28-12-2019

**Tension Test Report** (Page -7/10)

Date of Test 14-01-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.375	3/8	0.375	0.11	0.110	4100	5100	82200	81900	102200	101900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

**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](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,  
 Sub Divisional Officer  
 Building Sub Division  
 Okara  
 (Const: of Additional Class Rooms Under DFID (UK) Project in Punjab (One at Govt. Girls Primary School Guba Fazal Okara)(Amir Momtaz)

Reference # CED/TFL **34468** (Dr. Ali Ahmed)  
 Reference of the request letter # 548/SDO/OK

Dated: 13-01-2020  
 Dated: 28-12-2019

**Tension Test Report** (Page -8/10)

Date of Test 14-01-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.375	3/8	0.375	0.11	0.110	4100	5100	82200	82010	102200	102100	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](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,  
 Sub Divisional Officer  
 Building Sub Division  
 Depalpur  
 (Const: of Additional Class Rooms Under DFID (UK) Project in Punjab (One at Govt. Primary School Thatha Inyat Kay)(Rasheed Ahmed)

Reference # CED/TFL **34468** (Dr. Ali Ahmed)  
 Reference of the request letter # 551/SDO/OK

Dated: 13-01-2020  
 Dated: 28-12-2019

**Tension Test Report** (Page -9/10)

Date of Test 14-01-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.376	3/8	0.375	0.11	0.110	4000	5100	80200	79880	102200	101900	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

**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](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,  
 Sub Divisional Officer  
 Building Sub Division  
 Depalpur  
 (Const: of Additional Class Rooms Under DFID (UK) Project in Punjab (One at Govt. Girls Primary School Godh Khichi Okara)(Amir Mumtaz)

Reference # CED/TFL **34468** (Dr. Ali Ahmed)  
 Reference of the request letter # 550/SDO/OK

Dated: 13-01-2020  
 Dated: 28-12-2019

**Tension Test Report** (Page -10/10)

Date of Test 14-01-2020  
 Gauge length 8 inches  
 Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		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	0.376	3/8	0.375	0.11	0.111	3600	4900	72200	71800	98200	97800	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile test</b>														
Bend Test														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

- 1- You can See your reports On Internet in the following web site  
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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,  
 University Engineer  
 University of Sargodha  
 (Construction Verandah in Mosque at University of Sargodha)

Reference # CED/TFL **34469** (Dr. Ali Ahmed)  
 Reference of the request letter # SU/P.D(W)/936

Dated: 13-01-2020  
 Dated: 09-01-2020

**Tension Test Report** (Page -1/1)

Date of Test 14-01-2020  
 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 <sup>2</sup> )		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	0.398	3/8	0.386	0.11	0.117	3000	4800	60200	56560	96200	90500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](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,  
 Sub Divisional Officer  
 Public Health Engg: Sub Divn:  
 Kamalia  
 (Rural Water Supply Scheme Chak # 706/GB Tehsil Kamalia Distt: Toba Tek Singh)(OHR  
 10000 Galns)  
 Reference # CED/TFL **34470** (Dr. Ali Ahmed) Dated: 13-01-2020  
 Reference of the request letter # 11/K Dated: 10-01-2020

**Tension Test Report** (Page -1/1)

Date of Test 14-01-2020  
 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 <sup>2</sup> )		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	0.369	3/8	0.372	0.11	0.109	3700	5000	74200	75150	100200	101600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Note: only one sample for tensile and one sample for bend test</b>														
Bend Test														
3/8" Dia Bar Bend Test Through 180° is Satisfactory														

**I/C Testing Laboratoires**  
**UET Lahore, Pakistan.**

Note:

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[http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing\\_reports](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,  
 Member Engineering-I, CMIT  
 Government of The Punjab  
 Chief Minister's Inspection Team  
 Lahore

Reference # CED/TFL **34477** (Dr. Asad Ali)  
 Reference of the request letter # Nil

Dated: 14-01-2020  
 Dated: 13-01-2020

**Tension Test Report** (Page -1/1)  
 Date of Test 14-01-2020  
 Gauge length 2 inches  
 Description Deformed Steel Bar Tensile Test

Sr. No.	Weight (lbs/ft)	Diameter/ Size (inch)		Area (in <sup>2</sup> )		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Pipe Diameter
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.108	1/4	0.201	-----	0.032	800	1020	-----	55340	-----	70600	0.40	20.0	
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<b>Note: only one sample for tensile test</b>														
Bend Test														

Witness by Rashid (CMIT)

**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](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