



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
(Infra Dev Works of Sector X DHA Ph-VII) - (M/s DHAC)

Reference # CED/TFL **37074** (Dr. M Rizwan Riaz)
Reference of the request letter # 408/241/E/Lab/134/4X/ST-Q

Dated: 20-09-2021
Dated: 17-09-2021

Tension Test Report (Page – 1/1)

Date of Test 24-09-2021
Gauge length 2 inches
Description MS Pipe Steel Strip Tensile and Bend Test as Per ASTM A-53

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(inch)		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	MS Pipe	18	27.20x5.90	160.48	6400	8500	391	520	0.55	27.50	
2			27.30x5.85	159.71	6500	8600	399	528	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and One Sample for Bend Test											
Bend Test											
Strip Taken from MS Pipe (18") 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
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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
 (Buildings) Shahkot
 (Construction of Residences at RHC Muhammad Pura Tehsil Shahkot District Nankana Sahib)

Reference # CED/TFL **37079** (Dr. M Rizwan Riaz)
 Reference of the request letter # 2530

Dated: 22-09-2021
 Dated: 10-07-2021

Tension Test Report (Page -1/1)

Date of Test 24-09-2021
 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	0.367	3/8	0.371	0.11	0.108	3700	5000	74200	75510	100200	102100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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,
 Resident Engineer
 Abdullah Khan Architect
 CIMC (CMH Institute of Medical Sciences, DHA Bahawalpur)

Reference # CED/TFL **37090** (Dr. M Rizwan Riaz)

Dated: 23-09-2021

Reference of the request letter # SRE/KB/01/CIMS/Site/Lab/15

Dated: 21-09-2021

Tension Test Report (Page -1/1)

Date of Test

24-09-2021

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	0.384	3	0.379	0.11	0.113	4100	5300	82200	80050	106200	103500	1.10	13.8	SJ Steel
2	0.386	3	0.380	0.11	0.113	4000	5300	80200	77720	106200	103000	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:

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Test Floor Laboratory
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Pakistan. Ph: 92-42-99029202

To,
 Resident Engineer
 Abdullah Khan Architect
 CIMC (CMH Institute of Medical Sciences, DHA Bahawalpur)

Reference # CED/TFL **37091** (Dr. M Rizwan Riaz)

Dated: 23-09-2021

Reference of the request letter # SRE/KB/01/CIMS/Site/Lab/14

Dated: 15-09-2021

Tension Test Report (Page -1/1)

Date of Test 24-09-2021

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	0.111	3500	4800	70200	69780	96200	95700	1.10	13.8	Agha Steel
2	0.369	3	0.371	0.11	0.108	3600	4700	72200	73250	94200	95700	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:

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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

Ref: CED/TFL/09/37092

Dated: 23-09-2021

Dated of Test: 24-09-2021

To
Resident Engineer
Osmani & Company

Infrastructure Development Works of Phase-IIB (Including Construction of UG, OH Tank, WS and Sewerage System) at M3 Industrial City, Near Sahiwala Interchange M-3 Motorway, Faisalabad

Subject: - CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE
(MARK: TFL/09/37092) (Page # 1/2)

Reference to your Letter No. CRE/M3IC/FIC-039/Lab/1447, dated: 22/09/2021 on the subject cited above. One Hydraulic No. 777 with Pressure Gauge No. EN-837-1 as received by us has been calibrated. The results are tabulated as under:

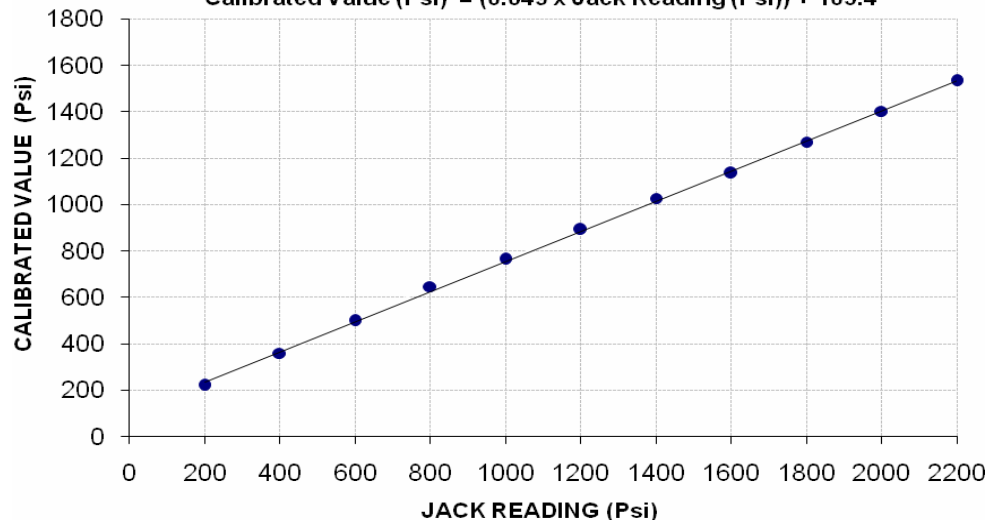
Total Range : Zero - 6000 (Psi)
Calibrated Range : Zero - 2200 (Psi)

Hydraulic Jack Reading (Psi)	200	400	600	800	1000	1200	1400	1600	1800	2000	2200
Calibrated Load (kg)	26000	42400	59000	76600	90600	105800	121600	134600	150600	166200	181800
Calibrated Pressure (Psi)	219	357	497	646	764	892	1025	1134	1269	1401	1532

The Ram Area of Jack = 261.58 in²

Calibration Curve For Jack No. 777

Calibrated Value (Psi) = (0.649 x Jack Reading (Psi)) + 105.4



I/C Testing Laboratories
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

Ref: CED/TFL/09/37092

Dated: 23-09-2021

Dated of Test: 24-09-2021

To
Resident Engineer
Osmani & Company

Infrastructure Development Works of Phase-IIB (Including Construction of UG, OH Tank, WS and Sewerage System) at M3 Industrial City, Near Sahiwala Interchange M-3 Motorway, Faisalabad

Subject: - CALIBRATION OF DIAL GAUGES (MARK: TFL/09/37092) (Page # 2/2)

Reference to your Letter No. CRE/M3IC/FIC-039/Lab/1447, dated: 22/09/2021 on the subject cited above. Three Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

Total Range : Zero - 50 (mm)
Calibrated Range : Zero - 50 (mm)

Standard Reading	Dial Gauge Readings		
	Dial Gauge No. I (16F083345)	Dial Gauge No. II (16F083307)	Dial Gauge No. III (16K220157)
400	395	395	390
800	794	799	786
1200	1194	1198	1183
1600	1593	1597	1578
2000	1993	1996	1973
2400	2392	2397	2376
2800	2792	2799	2773
3200	3191	3200	3174
3600	3590	3600	3574
4000	3989	3999	3973
4400	4390	4399	4372
4800	4790	4798	4772
5000	4990	4997	4977

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 Adeel Engineering Works
Lahore

Reference # CED/TFL **37093** (Dr. M Rizwan Riaz)
Reference of the request letter # Nil

Dated: 23-09-2021

Dated: 22-09-2021

Tension Test Report (Page -1/1)

Date of Test 24-09-2021
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	5100	70200	69340	102200	101100	1.20	15.0	
2	0.393	3	0.383	0.11	0.115	4400	5800	88200	84020	116300	110800	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
UET Lahore, Pakistan.

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To,
M/S Building Research Station
Lahore
(M/s Afaq Steel, 17-km Sheikhpura Road, Lahore)

Reference # CED/TFL **37094** (Dr. M Rizwan Riaz)
Reference of the request letter # 154-R/2761

Dated: 23-09-2021
Dated: 22-09-2021

Tension Test Report (Page -1/1)

Date of Test 24-09-2021
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	3300	4800	66200	66630	96200	97000	1.10	13.8	Batala Premium
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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,
M/S Matrix Management (Pvt) Ltd
Lahore

Reference # CED/TFL **37097** (Dr. M Rizwan Riaz)
Reference of the request letter # MM/Project/TR/50

Dated: 23-09-2021

Dated: 21-09-2021

Tension Test Report (Page -1/1)

Date of Test 24-09-2021
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	0.375	3/8	0.375	0.11	0.110	3800	4800	76200	76020	96200	96100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
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
 AR Developers & Town Planers
 Over Head Water Tank in B-Block ao Al-Rehman Garden Ph-7Lahore

Reference # CED/TFL **37098** (Dr. M Rizwan Riaz)
 Reference of the request letter # Z.A/A.R/20-21

Dated: 23-09-2021
 Dated: 23-09-2021

Tension Test Report (Page -1/2)

Date of Test 24-09-2021
 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	3700	5200	74200	72460	104200	101900	1.10	13.8	Mughal Steel
2	0.378	3	0.376	0.11	0.111	3500	4600	70200	69460	92200	91300	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Test Floor Laboratory
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To,
 Project Manager
 AR Developers & Town Planers
 Over Head Water Tank in B-Block ao Al-Rehman Garden Ph-7Lahore

Reference # CED/TFL **37098** (Dr. M Rizwan Riaz)
 Reference of the request letter # Z.A/A.R/19-21

Dated: 23-09-2021
 Dated: 23-09-2021

Tension Test Report (Page -2/2)

Date of Test 24-09-2021
 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	0.369	3	0.372	0.11	0.109	3500	5500	70200	71080	110200	111700	1.10	13.8	Saced Kasure
2	0.367	3	0.371	0.11	0.108	3500	5500	70200	71480	110200	112400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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Test Floor Laboratory
Department of Civil Engineering
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To,
 Project Manager
 China Energy Engineering Group
 Northeast No. 2 Electric Power Construction Co., Ltd
 Procurement of Plant – Design, Manufacture, Supply, Installation, Testing & Commissioning of
 500kV DoubleCircuit Quad Bundle Transmission Line from Suki Kinari Hydro Power Station to
 Interconnection Point of Existing Neelum Jhelum 500kV Double Circuit Quad Bundle
 Transmission Line (approx. 75km)
 Reference # CED/TFL **37099** (Dr. M Rizwan Riaz) Dated: 23-09-2021
 Reference of the request letter # DD-401A-FA-583 Dated: 20-09-2021

Tension Test Report (Page -1/1)

Date of Test 24-09-2021
 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	0.384	3	0.379	0.11	0.113	3700	5200	74200	72310	104200	101700	1.00	12.5	FF Steel
2	0.380	3	0.377	0.11	0.112	3700	5100	74200	72920	102200	100600	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by Sohaib Ali (Sub Engineer NESPAK)

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
 Pillar & Sons
 Rumanza Golf & Country Club, DHA Multan

Reference # CED/TFL **37100** (Dr. M Rizwan Riaz)
 Reference of the request letter # P&S/OTH/GEN/00044

Dated: 24-09-2021
 Dated: 22-09-2021

Tension Test Report (Page -1/1)

Date of Test 24-09-2021
 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	0.391	3	0.383	0.11	0.115	4300	5500	86200	82420	110200	105500	1.00	12.5	SJ Steel
2	0.396	3	0.385	0.11	0.116	4600	6000	92200	87210	120300	113800	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