



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/05/3196

Dated: 15-05-2023

Dated of Test: 24-05-2023

To

Chief Resident Engineer
Osmani & Cmapany (Pvt) Ltd
Construction of Sewerage & Water Supply Networks at Main Arterial Chiniot Sahianwala and Sem Nala Roads Including Balance Work at Main Arterial Road and Re-Routing of Water Course due to Industrial Units in Allama Iqbal Industrial City, Near Shianwala Interchange M-4 Motorway, Faisalabad. (Procurement No. AIIC-06)

Subject: **TESTING OF R.C.C. PIPE [ASTM-C76 - 08a]**

Reference to your letter No. CRE/AIIC-06/Lab/368, dated 11.05.2023 on the subject cited above. Four R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

Sr. No	Nominal Size	Total Length	Loaded Length	External Diameter	Internal Diameter	Wall Thickness	Proof load	Ultimate Load	Proof Stress	Ultimate Stress
	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.74	7.16	15.83	11.52	2.15	17000	19400	5456	6226
2	24	7.66	6.70	29.88	24.62	2.63	9940	13130	1594	2105
3	30	7.97	7.64	37.01	29.90	3.56	14200	17390	1644	2013
4	36	8.01	7.64	43.70	35.96	3.87	14260	19520	1372	1879

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
NESPAK
Construction of Underpass at Samanabad Moor Lahore

Reference # CED/TFL **3210** (Dr. Ali Ahmed)
Reference of the request letter # 4403/03/AZ/Lab/Steel-54

Dated: 16-05-2023
Dated: 05-05-2023

Tension Test Report (Page – 1/1)

Date of Test 24-05-2023
Gauge length 2 inches
Description MS Steel Plate Steel Strip Tensile and Bend Test as per ASTM A36

Sr. No.	Designation	Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	MS Plate	27.60x9.70	267.72	8500	13000	311	476	0.60	30.00	
2	MS Plate	27.80x9.80	272.44	9300	13200	335	475	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and Two Samples for Bend Test										
Bend Test										
Strip Taken from MS Steel Plate Bend Test Through 180° is Satisfactory										

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,
General Manager
Jazari Steel Pvt Ltd.
PEB-Building Bholari Air-Base

Reference # CED/TFL **3223** (Dr. Ali Ahmed)
Reference of the request letter # JS-1203

Dated: 18-05-2023
Dated: 17-05-2023

Tension Test Report (Page – 1/1)

Date of Test 24-05-2023
Gauge length 2 inches
Description MS Plate Steel Strip Tensile and Bend Test

Sr. No.	Designation		Size of Strip	X Section Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)									
1	MS Plate	6	21.90x6.90	151.11	6400	7600	415	493	0.60	30.00	
2	MS Plate	5	21.90x5.50	120.45	-----	4800	-----	391	0.60	30.00	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
Only Two Samples for Tensile and Two Samples for Bend Test											
Bend Test											
Strip Taken from 6mm MS- Plate Bend Test Through 180° is Satisfactory											
Strip Taken from 5mm MS- Plate 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,
Asst Dir Infra
Defence Housing Authority
Gujranwala
(Main Gate (Site – 01) & Roundabout (Site 03))

Reference # CED/TFL **3237** (Dr. Ali Ahmed)
Reference of the request letter # 111/3/AD/Dev/ESAC-01/012

Dated: 19-05-2023
Dated: 17-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023
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	0.372	3	0.373	0.11	0.109	3500	4900	70200	70530	98200	98800	1.00	12.5	
2	0.366	3	0.370	0.11	0.107	3500	4900	70200	71790	98200	100500	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.

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,

Asst Dir Lab
Defence Housing Authority, Bahawalpur
Enlistment at DHA Bahawalpur (Ittehad Steel Industries Faisalabad Pvt Ltd)

Reference # CED/TFL **3243** (Dr. M Rizwan Riaz)
Reference of the request letter # 110/QC/MTL

Dated: 22-05-2023
Dated: 19-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023
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	0.367	3	0.371	0.11	0.108	2900	4800	58200	59190	96200	98000	1.30	16.3	Ittehad Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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Pakistan. Ph: 92-42-99029202

To,

Engineer
AMCORP Engineering & Construction (Pvt) Ltd
Construction of Proposed Commercial Building Sunder Industrial State Plot # 12.

Reference # CED/TFL **3245** (Dr. Ali Ahmed)
Reference of the request letter # ABL-LHR-AMC-03

Dated: 22-05-2023
Dated: 22-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023
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	0.412	3	0.393	0.11	0.121	4200	5300	84200	76420	106200	96500	1.20	15.0	
2	0.411	3	0.392	0.11	0.121	4200	5300	84200	76560	106200	96700	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 Laboratories
UET Lahore, Pakistan.

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

To,

M/S Baig Construction Co
 Lahore
 (Jinnah Square Mall, Khayaban-e-Jinnah, Road Lahore.)

Reference # CED/TFL **3248** (Dr. Ali Ahmed)
 Reference of the request letter # 22052023BCC

Dated: 22-05-2023
 Dated: 22-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-02-2023
 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	0.398	3	0.386	0.11	0.117	3400	4900	68200	64130	98200	92500	1.20	15.0	Model
2	0.391	3	0.383	0.11	0.115	3300	4900	66200	63220	98200	93900	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														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,

Director Project
 Innovative (R) Construction Company
 Construction of Smart Vision Electric, Rachna Industrial Park, Sheikhpura.

Reference # CED/TFL **3249** (Dr. Ali Ahmed)

Dated: 22-05-2023

Reference of the request letter # ICL/SEV-SKP/0523/02

Dated: 19-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023

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	0.373	3	0.374	0.11	0.110	3500	4600	70200	70330	92200	92500	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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Pakistan. Ph: 92-42-99029202

To,

Director Project
Innovative (R) Construction Company
Construction of ABL Branch at Fazaia Housing Society Raiwind Road, Lahore.

Reference # CED/TFL **3250** (Dr. Ali Ahmed)
Reference of the request letter # ICL/ABL/FH/0523/07

Dated: 22-05-2023
Dated: 19-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023
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	0.370	3	0.372	0.11	0.109	3800	5000	76200	77100	100200	101500	1.00	12.5	
2	0.368	3	0.371	0.11	0.108	3600	4800	72200	73260	96200	97700	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.

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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 Director
New Metro City Housing Scheme
Krarian - Saraialamgir

Reference # CED/TFL 3252 (Dr. Ali Ahmed)
Reference of the request letter # PD/NMC/23/78

Dated: 22-05-2023
Dated: 20-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023
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	0.368	3/8	0.371	0.11	0.108	3100	4800	62200	63220	96200	97900	1.10	13.8	Malik Steel
2	0.366	3/8	0.370	0.11	0.108	3200	4900	64200	65530	98200	100400	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,

Project Manager
BSM Gujar Khan
Construction of 5 Marla Vilas, New Metro City Gujar Khan Rawalpindi

Reference # CED/TFL **3253** (Dr. M Rizwan Riaz)
Reference of the request letter # NMC/119/2023

Dated: 22-05-2023
Dated: 17-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023
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	0.354	3	0.364	0.11	0.104	3100	4800	62200	65600	96200	101600	1.10	13.8	Malik Steel
2	0.355	3	0.365	0.11	0.104	3100	4800	62200	65440	96200	101400	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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Test Floor Laboratory
Department of Civil Engineering
University of Engineering and Technology Lahore, 54890
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To,
 Resident Engineer (QA/QC Department)
 Bahria Town Private Limited
 Muhammad Ali Jinnah Masjid Block “D” Bahria Orchard Lahore

Reference # CED/TFL **3256** (Dr. Ali Ahmed)
 Reference of the request letter # QA/QC-Steel-3172

Dated: 22-05-2023
 Dated: 22-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-02-2023
 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	3600	5300	72200	70360	106200	103600	1.20	15.0	
2	0.383	3	0.378	0.11	0.112	3700	5300	74200	72510	106200	103900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

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Test Floor Laboratory
Department of Civil Engineering
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To,

P.E
 Speed Construction Management (SCM)
 Construction of a New Building at Plot No. 25, Road 13, Khayaban-e-Kheruddin
 Housing Scheme, Johar Town Lahore

Reference # CED/TFL **3257** (Dr. Ali Ahmed)
 Reference of the request letter # SCM-203B-02-23

Dated: 22-05-2023
 Dated: 22-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023
 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	0.367	3	0.370	0.11	0.108	3300	4400	66200	67490	88200	90000	1.20	15.0	
2	0.365	3	0.370	0.11	0.107	3100	4400	62200	63700	88200	90500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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 Laboratories
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

Ref: CED/TFL/05/3358
Dated of Test: 24-05-2023

Dated: 22-05-2023

To,
Resident Engineer
NESPAK
Swabi - Jehangira Road Dualization

Subject: - **CALIBRATION OF PRESSURE GAUGE (MARK: TFL/05/3258)** (Page -1/2)

Reference to your Letter No. 4266/103/PKHA/SC/MNK/101/70, Dated: 20/05/2023 on the subject cited above. One Pressure Gauge No. AES-310 as received by us has been calibrated. The results are tabulated as under:

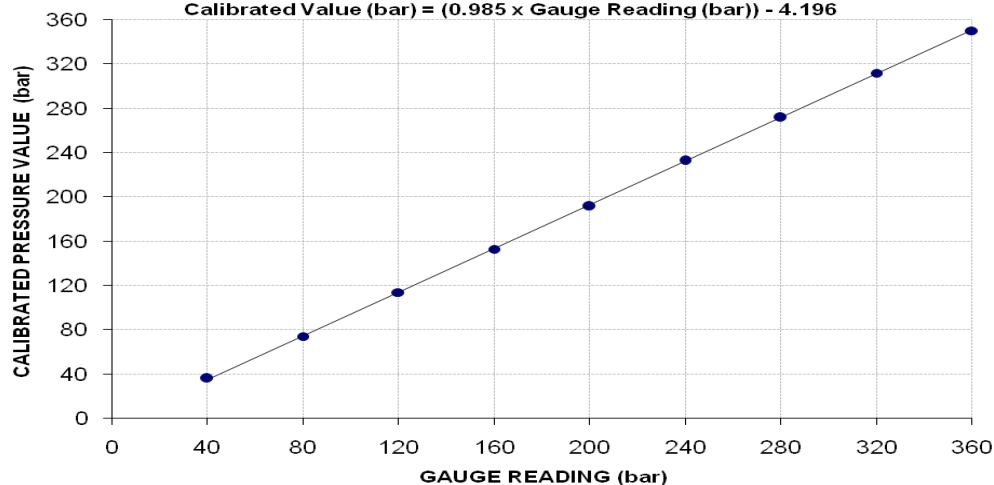
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 360 (bar)

Pressure Gauge Reading (bar)	40	80	120	160	200	240	280	320	360
Calibrated Load (kg)	7300	15000	23000	30900	38700	47000	54900	63000	70700
Calibrated Pressure (bar)	36	74	114	153	192	233	272	312	350

The Ram Area used for Calibration = 198 cm²

Calibration Curve for Pressure Gauge No. AES-310

Calibrated Value (bar) = $(0.985 \times \text{Gauge Reading (bar)}) - 4.196$



I/C Testing Laboratories
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

Ref: CED/TFL/05/3358

Dated: 22-05-2023

Dated of Test: 24-05-2023

To,

Resident Engineer
NESPAK
Swabi - Jehangira Road Dualization

Subject: - CALIBRATION OF PRESSURE GAUGE (MARK: TFL/05/3258) (Page -2/2)

Reference to your Letter No. 4266/103/PKHA/SC/MNK/101/70, Dated: 20/05/2023 on the subject cited above. One Pressure Gauge No. AES-320 as received by us has been calibrated. The results are tabulated as under:

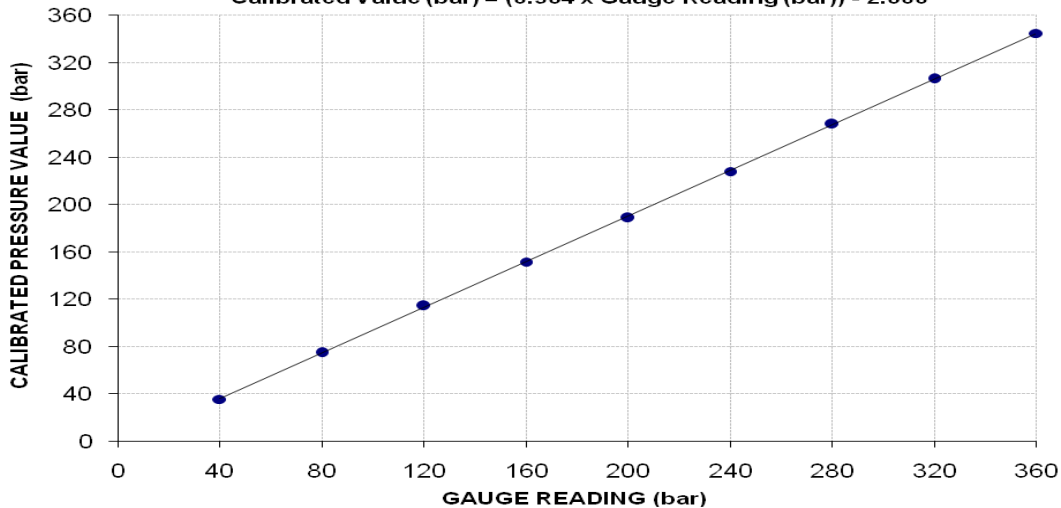
Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 360 (bar)

Pressure Gauge Reading (bar)	40	80	120	160	200	240	280	320	360
Calibrated Load (kg)	7200	15100	23100	30600	38100	46000	54100	61800	69600
Calibrated Pressure (bar)	36	75	114	152	189	228	268	306	345

The Ram Are use for Calibration = 198 cm²

Calibration Curve for Pressure Gauge No. AES-320

Calibrated Value (bar) = (0.964 x Gauge Reading (bar)) - 2.600



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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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,
M/S United Wire Industries (Pvt) Ltd
Lahore

Reference # CED/TFL **3259** (Dr. Ali Ahmed)
Reference of the request letter # UWIL/D-1378

Dated: 23-05-2023

Dated: 22-05-2023

Tension Test Report (Page – 1/1)

Date of Test 24-05-2023

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)		% Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	15.24 (0.6")	1102.0	1104.0	23800	233.48	26600	260.95	>3.50	1234
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for 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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- 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 Forest Officer
 East Sub Division Chichawatni
 (Construction Work of SDFO Office, Chowkidar Hutt and Toilet Blocks under
 development Scheme titled “Up Gradation / Rehabilitation of Forest & Wildlife Park”
 Chichawatni)

Reference # CED/TFL **3260** (Dr. Ali Ahmed)

Dated: 23-05-2023

Reference of the request letter # 593/E

Dated: 15-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile 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	0.399	3/8	0.386	0.11	0.117	3500	4300	70200	65800	86200	80900	1.90	23.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
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
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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
Union Developers
Construction of Union Luxury Apartments, Etihad Town, Lahore

Reference # CED/TFL **3361** (Dr. Ali Ahmed)
Reference of the request letter # UA/SO/2023/041

Dated: 23-05-2023
Dated: 22-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-03-2023
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	0.382	3	0.378	0.11	0.112	3700	4800	74200	72680	96200	94300	1.10	13.8	Afco Steel
2	0.376	3	0.375	0.11	0.110	3600	4700	72200	71840	94200	93800	1.10	13.8	
3	0.381	3	0.377	0.11	0.112	3600	4500	72200	70900	90200	88700	1.20	15.0	
4	0.379	3	0.376	0.11	0.111	3700	5000	74200	73280	100200	99100	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#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



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

To,

Assistant Project Director
PMU-SBP
Up-Gradation of Sports Facilities in Punjab One at Up-Gradation of Nishtar Park Sports Complex, Lahore.

Reference # CED/TFL **3262** (Dr. Ali Ahmed)

Dated: 23-05-2023

Reference of the request letter # APD/PMU/SBP/LHR/23/554

Dated: 19-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023

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	0.424	3/8	0.398	0.11	0.125	4600	5900	92200	81380	118300	104400	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:

- 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,
Director Project
Ghurki Trust & Teaching Hospital, Lahore
Construction of Ghurki Medical and Dental College.

Reference # CED/TFL **3264** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 23-05-2023
Dated: 22-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023
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	0.370	3	0.372	0.11	0.109	3500	4900	70200	71020	98200	99500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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
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- 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,

Executive Engineer (B&W)
 University of Veterinary & Animal Sciences, Lahore
 (Construction of Girls Hostel Building at CVAS Jhang)

Reference # CED/TFL **3265** (Dr. Ali Ahmed)
 Reference of the request letter # E.E 838

Dated: 23-05-2023
 Dated: 17-04-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023
 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	0.372	3/8	0.373	0.11	0.109	3400	4900	68200	68560	98200	98900	1.40	17.5	Sheikhoo Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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:

- 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,

Resident Engineer
 NESPAK
 Construction of Multi-Level Grade Separation Flyover at Shahdra Moor, Lahore

Reference # CED/TFL **3266** (Dr. M Kashif)
 Reference of the request letter # 4537/03/MSA/09/44

Dated: 23-05-2023
 Dated: 17-05-2023

Tension Test Report (Page -1/2)

Date of Test 24-05-2023
 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	4.120	10	1.242	1.27	1.211	39000	54000	67700	70980	93800	98300	1.50	18.8	B-3859
2	4.178	10	1.250	1.27	1.228	41000	54600	71200	73590	94800	98000	1.50	18.8	B-3860
3	4.153	10	1.247	1.27	1.221	30800	46000	53500	55620	79900	83100	1.80	22.5	D-8382
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and three samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 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
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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
 NESPAK
 Construction of Multi-Level Grade Separation Flyover at Shahdra Moor, Lahore

Reference # CED/TFL **3266** (Dr. M Kashif)
 Reference of the request letter # 4537/03/MSA/09/46

Dated: 23-05-2023
 Dated: 22-05-2023

Tension Test Report (Page -2/2)

Date of Test 24-05-2023
 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	4.136	10	1.244	1.27	1.216	38800	52200	67400	70350	90600	94700	1.60	20.0	B-3861
2	4.158	10	1.247	1.27	1.222	41800	56600	72600	75380	98300	102100	1.50	18.8	B-3866
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and two samples for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														
#10 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
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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,

Asst Dir Infra
Defence Housing Authority
Gujranwala
(Sector G)

Reference # CED/TFL **3267** (Dr. Ali Ahmed)

Dated: 23-05-2023

Reference of the request letter # 111/15/AD/RS/Lab/Pkg-2B/1614

Dated: 09-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023

Gauge length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.383	3	0.379	0.11	0.113	3200	5200	64200	62620	104200	101800	1.30	16.3	Siraj Steel
2	0.386	3	0.380	0.11	0.114	3500	5300	70200	67930	106200	102900	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:

- 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,

Chief Engineer
Zaitoon City
Construction of House # 52, 53 & 64 by SWN Contractor, Zaitoon City)

Reference # CED/TFL **3270** (Dr. Usnman Akmal)
Reference of the request letter # NLC/CE/Const/20

Dated: 24-05-2023
Dated: 23-05-2023

Tension Test Report (Page -1/1)

Date of Test 24-05-2023
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	0.396	3	0.385	0.11	0.116	3100	5100	62200	58720	102200	96600	1.30	16.3	Batala Steel
2	0.393	3	0.384	0.11	0.116	3100	5100	62200	59130	102200	97300	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

Witness by M Azhar Rais (Asst. Lab Incharge, Zaitoon)

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