MERMONE AND THE PROPERTY OF TH

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

Dualization & Improvement of Existing N – 50 from Yarik to Saggu Road Project (50km)

Reference # CED/TFL <u>4686 (Dr. Ali Ahmed)</u>

Reference of the request letter # CPEC/YS/RE/AHJ/91

Dated: 22-02-2024

Dated: 06-02-2024

Tension Test Report (Page - 1/3)

Date of Test 14-03-2024 Gauge length 2 inches

Description MS Plate (Trunpet Cone) Steel Strip Tensile Test

Sr. No.	(mm) Designation	(mm) Size of Strip	X Section Area	Xield load	Breaking Cad	(MPa)	Ultimate Stress	(ui) Elongation	% Elongation	Remarks
1	MS Plate	20.00x36.00	720.00	19500	33400	266	455	1.40	70.00	
1	MISTIACE	20.00000.00	720.00	13300	33400	200	700	1.40	70.00	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	ı	-	ı	-	-	
-	-	-	-	-	ı	-	•	-	-	
-	-	-	-	-	-	-	1	-	-	
		(Only One S	Sample f	or Tensile	Test				
				Bend T	est					

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To,

Resident Engineer NESPAK

Dualization & Improvement of Existing N – 50 from Yarik to Saggu Road Project (50km)

Reference # CED/TFL <u>4686 (Dr. Ali Ahmed)</u>

Reference of the request letter # CPEC/YS/RE/AHJ/91

Dated: 22-02-2024

Dated: 06-02-2024

Size Test Report (Page – 2/3) Date of Test 14-03-2024

Description MS Plate (Trumpet Cone) Size Test

Sr. No.	Designation	Length	Width	Thickness	Remark
		(cm)	(cm)	(mm)	
1	MS Plate	28.30	28.10	36.10	
-	-		1		
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
-	-	-	-	-	
		Only One S	Sample for Test		

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To,

Resident Engineer NESPAK

Dualization & Improvement of Existing N – 50 from Yarik to Saggu Road Project (50km)

Reference # CED/TFL <u>4686 (Dr. Ali Ahmed)</u>

Reference of the request letter # CPEC/YS/RE/AHJ/91

Dated: 22-02-2024

Dated: 06-02-2024

Size Test Report (Page – 2/3) Date of Test 14-03-2024

Description Sheath Pipe Size Test

Sr. No.	Designation	External Diameter	Wall Thickness	Remark
		(mm)	(mm)	
1	Sheath Pipe	74.50	0.50	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
	Only	y One Sampl	e for Test	

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To,

M/S Kashif Riaz & Associates Faisalabad (Construction of Fountain House Sargodha.)

Reference # CED/TFL 4776 (Dr. M Kashif)

Reference of the request letter # Nil

Dated: 11-03-2024

Dated: 11-03-2024

Tension Test Report (Page -1/1)

Date of Test 14-03-2023 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.372	3	0.373	0.11	0.109	3600	5100	72200	72520	102200	102800	1.00	12.5	
2	0.369	3	0.372	0.11	0.108	3500	5000	70200	71120	100200	101600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		ı	No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend 1	test			
							Bend T	ogt.						
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ıctorv	Delia 1	est						
113	Dui Dell		i in ougi	1100 1	Sutisia	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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.
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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

Rehabilitation / Reconstruction of Nankana to Shah Kot Road Length = 25.28 km in District Nankana Sahib.

Reference # CED/TFL 4779 (Dr. M Kashif)

Dated: 12-03-2024

Reference of the request letter # 3811/103/ADPNS/AB/178

Dated: 06-03-2024

Tension Test Report (Page -1/1)

Date of Test 14-03-2024 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze		rea n²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.379	3	0.377	0.11	0.111	3600	5100	72200	71230	102200	101000	1.30	16.3	
2	0.382	3	0.378	0.11	0.112	3900	5400	78200	76470	108200	105900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		·	N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend 1	test			ı
#2	Bar Ben	d Tost 7	Theoreal	. 1900 i	Sotiafa	actory.	Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To,

Dy Dir Infra Defence Housing Authority, Gujranwala "Boundary Wall (Sector C)"

Reference # CED/TFL 4780 (Dr. M Kashif)

Reference of the request letter # 111/15/DD/RS/Lab/BW/Pkg-2A/228

Dated: 12-03-2024

Dated: 11-03-2024

Tension Test Report (Page -1/1)

Date of Test 14-03-2024 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.385	3	0.380	0.11	0.113	3800	5200	76200	73980	104200	101300	1.10	13.8	-
2	0.364	3	0.369	0.11	0.107	3600	5000	72200	74260	100200	103200	1.20	15.0	Steel
-	-	-	-	-	-	-	FF							
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	_	-	-	-	
		ı	No	ote: on	ly two s	amples f	or tensile	and one	sample f	for bend	test			ı
#2	Dor Don	d Tost	<u> </u>	1900 i	Sotiafo	ectory.	Bend T	est						
#3	Bar Ben	u rest	ı nrougr	1 180° 18	s Satisia	ictory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To,

Material Engineer NESPAK

Infrastructure Development of Quaid-E-Azam Business Park on Motorway M-2, District Sheikhupura – Construction of Priority Works.

Reference # CED/TFL 4781 (Dr. M Kashif)
Reference of the request letter # 4163/11/ZA/01/18

Tension Test Report (Page -1/1)

Date of Test 14-03-2024 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress (si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	1 0.111	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.377	3	0.376	0.11	0.111	3300	4800	66200	65650	96200	95500	1.10	13.8	iz el
2	0.379	3	0.377	0.11	0.112	3200	4700	64200	63240	94200	92900	1.20	15.0	Aziz Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	_	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test	1		
							<u> </u>							
							Bend T	est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 12-03-2024

Dated: 06-03-2024

- 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



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

To,

General Manager (Design)

Netracon Technologies (Pvt) Ltd

Procurement of Plant-Design, Supply, Installation, Testing and Commission of 220 kV D/C T/B OHTL from Sheikhupura G/S to Bund Road G/S (28 km on Rail Conductor).

Reference # CED/TFL 4783 (Dr. M Kashif)

Reference of the request letter # NTT-HO/ADB301C-R/SI-020 Dated: 12-03-2024

Tension Test Report (Page # 1/1)

Date of Test 14-03-2024 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze	Aı (iı	rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.376	3	0.375	0.11	0.110	3500	5100	70200	69850	102200	101800	1.30	16.3	
2	0.380	3	0.377	0.11	0.112	3600	5200	72200	70950	104200	102500	1.10	13.8	teel
-	ı	-	-	-	-	-	-	1	-	-	-	-	-	SJ Steel
-	-	-	-	-	-	-	-	ı	-	-	-	-	-	
-	ı	-	-	-	-	-	-	ı	-	-	-	-	-	
-	ı	-	-	-	-	-	-	ı	-	-	-	-	-	
			No	ote: onl	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est						
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory								

Witness by Sohaib Ali (Sub-Engr. NESPAK)

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 12-03-2024

- 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



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

To,

Project Manager Premier Builders Lyallpur Galleria 3 Near Nallay Wala Pull Canal Road, Faisalabad

Reference # CED/TFL <u>4784 (Dr. M Kashif)</u>
Reference of the request letter # LG-3/005

Dated: 12-03-2024

Dated: 11-03-2024

Tension Test Report (Page -1/1)

Date of Test 14-03-2023 Gauge length 8 inches

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

Sr. No.	Weight	Diam Si	ieter/ ze		rea n²)	Yield load	Breaking Load		Stress si)	Ultimat (p	e Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.379	3	0.377	0.11	0.111	3700	5000	74200	73240	100200	99000	1.40	17.5	00
-	-	-	-	-	-	-	-	-	-	_	-	-	-	Sheikhoo Steel
ı	ı	ı	•	ı	-	ı	-	-	-	-	1	-	-	Sh
-	•	ı	-	ı	-	ı	-	-	-	-	ı	-	-	
-	ı	1	-	ı	-	ı	-	-	-	-	ı	-	-	
-	-	-	-	-	-	-	_	-	-	_	-	-	-	
			N	ote: on	ly one s	sample fo	or tensile	and one	sample f	or bend t	est	1	T	
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ıctory	Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To,

Civil Engineer National Management Foundation "Yousaf Shirazi Complex" at Lums Campus

Reference # CED/TFL 4785 (Dr. M Kashif)

Reference of the request letter # NMF/GM/C-39/854

Dated: 13-03-2024

Dated: 12-03-2024

Tension Test Report (Page -1/1)

Date of Test 14-03-2023 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ze m)		rea n²)	Yield load	Breaking Load		Stress si)		ee Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.363	10	9.36	0.12	0.107	3700	4600	67975	76490	84510	95100	1.00	12.5	
2	0.363	10	9.37	0.12	0.107	3700	4600	67975	76370	84510	95000	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
							Bend T	est est						
10r	nm Bar	Bend T	est Thro	ough 18	0° is Sa	tisfactory	•							

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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 Flyover at Shahdara Morr & Construction of Bridge over Ravi River,

Lahore. (Aziz Steel)

Reference # CED/TFL <u>4786 (Dr. Ali Ahmed)</u>
Reference of the request letter # 4537/03/MSA/09/213

Dated: 13-03-2024

Dated: 12-03-2024

Tension Test Report (Page -1/1)

Date of Test 14-03-2024 Gauge length 8 inches

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

Sr. No.	Weight		ieter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Heat. No.
	(lbs/ft)	5.198 11 1.395	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	H
1	5.198	11	1.395	1.56	1.528	42600	69000	60200	61460	97500	99600	1.40	17.5	40
2	5.133	11	1.386	1.56	1.509	47800	67800	67600	69830	95800	99100	1.60	20.0	42
3	5.139	11	1.387	1.56	1.510	42600	70600	60200	62170	99800	103100	1.40	17.5	539
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	1	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	te: only	three	sample f	or tensile	and thre	ee sample	s for ben	d test	ı		
							Bend 7	Γest						

#11 Bar Bend Test Through 180° is Satisfactory

#11 Bar Bend Test Through 180° is Satisfactory

#11 Bar Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



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

To,

Director Innovative (R) Construction Company "Awan Sports Complex Sialkot"

Reference # CED/TFL **4790** (Dr. Ali Ahmed)

Reference of the request letter # ICL/KA/PW/0324/01

Dated: 14-03-2024

Dated: 14-03-2024

Tension Test Report (Page -1/1)

Date of Test 14-03-2024 Gauge length 8 inches

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

Sr. No.	Weight		neter/ ze		rea 1 ²)	Yield load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	∃%	R
1	0.378	3	0.376	0.11	0.111	4000	6100	80200	79290	122300	121000	1.00	12.5	
2	0.385	3	0.380	0.11	0.113	4100	6100	82200	79780	122300	118700	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	te: onl	y two sa	amples fo	or tensile	and one	samples	for bend	test	1		
#3	Bar Ben	d Test T	Γhrough	180° is	s Satisfa	ctory	Bend T	est						

Witness by Saeed Ahmed (Project Manager)

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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



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

To,

Project Manager Tawasul Developers (Pvt.) Ltd. Creek Tower 6-D Upper Mall Lahore.

Reference # CED/TFL 4791 (Dr. M Kashif)

Reference of the request letter # Nil

Dated: 14-03-2024

Dated: 14-03-2024

Tension Test Report (Page -1/1)

Date of Test 14-03-2024 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size		Area (in²)		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)	% E	R	
1	0.357	3	0.366	0.11	0.105	3700	4700	74200	77630	94200	98700	1.20	15.0		
-	-	-		-	-	-	-	-	-	-	-	-	-	`	
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Note: only one sample for tensile and one sample for bend test														
							Bend T	est							
#3	Bar Ben	d Test	Γhrough	180° is	s Satisfa	ctory									

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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