

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

To,
Acting Project Director
Air University Multan Campus
Construction of Boys Hostell, Air University Multan Campus
(FF Steel)

Reference # CED/TFL **34138** (Dr. Usman Akmal) Dated: 06-11-2019 Reference of the request letter # MUX/AUMC/BH1/2019/013 Dated: 29-10-2019

Tension Test Report (Page -1/1)

Date of Test 07-11-2019
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
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.371	3	0.373	0.11	0.109	3700	4900	74200	74780	98200	99100	1.10	13.8	
2	0.372	3	0.373	0.11	0.109	3700	4900	74200	74620	98200	98900	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend	test			
	Bend Test													
#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

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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 (PMD)
AL-Imam Enterprises Pvt.Ltd
Construction of Penta Square, Phase-V, DHA, Lahore

Reference # CED/TFL **34116** (Dr. Safeer Abbas)

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/983

Dated: 31-10-2019

Dated: 31-10-2019

Seamless/Flattening Test Report (Page – 1/2)

Date of Test 07-11-2019

Description MS Pipe Seamless Test as per ASTM A 106

Sr. No.	Designation	Test Type	Observation/Results						
1	Ding (22mm)	Ductility	No crack was observed						
1	Pipe (32mm)	Soundness	No evidence of lamination noticed						
		-	-						
-	-	-	-						
		-	-						
-	-	-	-						
		-	-						
-	-	-	-						
		-	-						
-	-	-	-						
		-	-						
_	-	-	-						
		Only One	Sample for Test						

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 (PMD)
AL-Imam Enterprises Pvt.Ltd
Construction of Penta Square, Phase-V, DHA, Lahore

Reference # CED/TFL **34116** (Dr. Safeer Abbas)

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/983

Dated: 31-10-2019

Dated: 31-10-2019

Weight &Size Test Report (Page – 2/2)

Date of Test 07-11-2019

Gauge length -----

Description MS Pipes Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(mm)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	32	212	60.00	3.53	40.50	33.20	3.65	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
			Only One	e Sample f	or Test			

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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 (PMD)
AL-Imam Enterprises Pvt.Ltd
Construction of Penta Square, Phase-V, DHA, Lahore

Reference # CED/TFL **34117** (Dr. Safeer Abbas)

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/980

Dated: 31-10-2019

Dated: 31-10-2019

Seamless/Flattening Test Report (Page – 1/2)

Date of Test 07-11-2019

Description MS Pipe Seamless Test as per ASTM A 106

Sr. No.	Designation	Test Type	Observation/Results						
1	Pipe (25mm)	Ductility	No crack was observed						
1	Fipe (25mm)	Soundness	No evidence of lamination noticed						
2	D' (50)	Ductility	No crack was observed						
2	Pipe (50mm)	Soundness	No evidence of lamination noticed						
3	D' (100)	Ductility	No crack was observed						
3	Pipe (100mm)	Soundness	No evidence of lamination noticed						
		-	-						
-	-	-	-						
		-	-						
-	-	-	-						
		-	-						
-	-	-	-						
		Only Three	Samples for Test						

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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 (PMD)
AL-Imam Enterprises Pvt.Ltd
Construction of Penta Square, Phase-V, DHA, Lahore

Reference # CED/TFL **34117** (Dr. Safeer Abbas)

Reference of the request letter # Al-Imam/746/PS-1/DHA/LHE/980

Dated: 31-10-2019

Dated: 31-10-2019

Weight &Size Test Report (Page – 2/2)

Date of Test 07-11-2019

Gauge length -----

Description MS Pipes Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	External Diameter	Internal Diameter	Wall Thickness	Remark
	(mm)	(g)	(mm)	(kg/m)	(mm)	(mm)	(mm)	
1	25	158	60.00	2.63	32.90	26.00	3.45	
2	50	327	60.10	5.44	62.40	52.50	3.95	
3	100	940	60.25	15.60	113.70	102.70	5.50	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
	1		Only Thre	e Samples	for Test		ı	

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

To, Assistant Director-II Building Research Station Lahore (AF Steel)

Reference # CED/TFL **34133** (Dr. Usman Akmal)

Reference of the request letter # 154-R/2997

Dated: 05-11-2019

Dated: 31-10-2019

Tension Test Report (Page -1/1)

Date of Test 07-11-2019 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size (inch)		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	Elongation	Remarks
S	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	H %	R
1	0.377	3/8	0.376	0.11	0.111	3200	5000	64200	63660	100200	99500	1.10	13.8	
2	0.372	3/8	0.373	0.11	0.109	3200	4900	64200	64570	98200	98900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			N	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test	•	1	
							Bend T	est						
3/8	" Dia Ba	ar Bend	Test Th	nrough	180° is \$	Satisfacto	ory							

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, M/S Bilal Corporation Lahore

Reference # CED/TFL **34134** (Dr. Ali Ahmed)

Reference of the request letter # Nil

Dated: 05-11-2019

Dated: 05-11-2019

Bend Test Report (Page – 1/2) Date of Test 07-11-2019

Description Pegg (Hook) Bend Test

Bend Test

Pegg (Hook) Bend Test Through 180° is Failed (Numerous cracks appeared, extending into the metal)

Only One Sample for Bend Test

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- 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, M/S Bilal Corporation Lahore

Reference # CED/TFL **34134** (Dr. Ali Ahmed)

Reference of the request letter # Nil

Dated: 05-11-2019

Dated: 05-11-2019

Size Test Report (Page – 2/2) Date of Test 07-11-2019

Description Pegg (Hook) Size Test

Sr. No.	Designation	m Thickness	Remark
1	Pegg (Hook)	7.90	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
	Only One Sa	amples for Test	

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, Site Engineer Zikar Constructions 31-K Model Town.

Reference # CED/TFL **34137** (Dr. Usman Akmal)

Reference of the request letter # Nil

Dated: 06-11-2019

Dated: 06-11-2019

Tension Test Report (Page -1/1)

Date of Test 07-11-2019
Gauge length 8 inches

Description Deformed Steel Bar Tensile Test as per ASTM-A615

Sr. No.	Maria Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks	
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.427	3	0.400	0.11	0.126	3300	4700	66200	57940	94200	82600	1.50	18.8	Afco Steel
2	0.424	3	0.399	0.11	0.125	3300	4600	66200	58320	92200	81300	1.30	16.3	Af
3	0.379	3	0.377	0.11	0.111	3600	4700	72200	71220	94200	93000	1.30	16.3	Mughal Steel
4	0.380	3	0.377	0.11	0.112	3500	4600	70200	69130	92200	90900	1.00	12.5	Mug Ste
-	•	-	-	-	-	-	-	-	-	-	-	-	-	
-	•	•	-	1	-	•	-	-	-	-	-	-	-	
		1	•		Not	e: only fo	our samp	les for te	nsile test			1	1	
							Bend T	est						

I/C Testing Laboratoires UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

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

To, Project Manager Liberty Builders

(Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore)

Reference # CED/TFL **34142** (Dr. M Rizwan Riaz) Dated: 07-11-2019 Reference of the request letter # CONC-20190707-A Dated: 07-11-2019

Tension Test Report (Page -1/1)

Date of Test 07-11-2019
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
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.374	3	0.374	0.11	0.110	3570	4660	71600	71660	93400	93600	0.70	8.8	er
2	0.359	3	0.367	0.11	0.106	3590	4740	72000	74910	95000	99000	0.80	10.0	Model Power
3	0.365	3	0.370	0.11	0.107	3670	5050	73600	75330	101200	103700	0.80	10.0	odel
-		•		-	-	-	-	-	-	-	-	-	-	Σ
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	te: only	y three :	samples	for tensil	e and one	e sample	for bend	test			
							Bend T	est						
# 3	Bar Ber	nd Test	Through	h 180° i	s Satisf	actory								
	- ·													

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