



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

(Const. of DHA Business Hub, DHA Ph-VIII)(M/s Kingcrete)(LONTRIN PIPES)

Reference # CED/TFL **35023** (Dr. M Yousaf)

Dated: 22-06-2020

Reference of the request letter # 408/241/E/Lab/922/4208

Dated: 16-06-2020

Tension Test Report (Page – 1/1)

Date of Test 26-06-2020

Gauge length 2 inches

Description MS Pipe 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
	(inch)		(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(in)		
1	MS Pipe	1	24.00x3.20	76.80	4000	4700	510.94	600.35	0.40	20.00	
2			24.00x3.20	76.80	3800	4700	485.39	600.35	0.40	20.00	
3	MS Pipe	1½	24.00x3.30	79.20	3100	3900	383.98	483.07	0.45	22.50	
4			24.00x3.30	79.20	3200	4000	396.36	495.45	0.45	22.50	
5	MS Pipe	2	24.00x3.70	88.80	3500	4550	386.66	502.65	0.50	25.00	
6			24.00x3.70	88.80	3500	4550	386.66	502.65	0.40	20.00	
7	MS Pipe	2½	23.80x4.80	114.24	5000	6400	429.36	549.58	0.50	25.00	
8			23.80x4.80	114.24	4900	6500	420.77	558.17	0.50	25.00	
9	MS Pipe	3	23.80x4.95	117.81	5400	6600	449.66	549.58	0.50	25.00	
10			23.80x5.00	119.00	5300	6500	436.92	535.84	0.50	25.00	
11	MS Pipe	4	23.80x5.50	130.90	5800	6900	434.67	517.10	0.55	27.50	
12			23.80x5.50	130.90	5700	6800	427.17	509.61	0.55	27.50	

Only Twelve Samples for Tensile and Six Samples for Bend Test

Bend Test

Strip Taken from MS Pipe (1") Bend Test Through 180° is Satisfactory
Strip Taken from MS Pipe (1½") Bend Test Through 180° is Satisfactory
Strip Taken from MS Pipe (2") Bend Test Through 180° is Satisfactory
Strip Taken from MS Pipe (2½") Bend Test Through 180° is Satisfactory
Strip Taken from MS Pipe (3") Bend Test Through 180° is Satisfactory
Strip Taken from MS Pipe (4") 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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- 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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To,
 Project Manager
 Typsa-Asian Consulting Engineers (Jv)
 Passenger Terminal Expansion Project at Allama Iqbal International Airport (AIIAP), Lahore,
 Pakistan–Package: Car Parking Area

Reference # CED/TFL **35048** (Dr. M Yousaf) Dated: 25-06-2020
 Reference of the request letter # TYPsa-PK-3267-20 Dated: 24-06-2020

Tension Test Report (Page -1/1)

Date of Test 26-06-2020
 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 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	0.380	3	0.377	0.11	0.112	3800	5000	76200	74940	100200	98600	0.90	11.3	Mughal Steel
2	0.377	3	0.375	0.11	0.111	4000	5200	80200	79620	104200	103500	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Sub Divisional Officer
 Buildings Sub Division
 Assembly, Lahore
 (Construction of MPA Hostel Phase-II Lahore)

Reference # CED/TFL **35049** (Dr. M Yousaf)
 Reference of the request letter # 2527

Dated: 25-06-2020
 Dated: 19-06-2020

Tension Test Report (Page -1/1)

Date of Test 26-06-2020
 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 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	3200	4900	64200	64510	98200	98800	1.20	15.0	
2	0.381	3/8	0.377	0.11	0.112	3200	4850	64200	63030	97200	95600	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 Laboratoires
UET Lahore, Pakistan.

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To,
 Project Manager
 Liberty Builders
 Construction of Zee Avenue-Ramada Hotel & Suites 17-A Cooper Road, Lahore

Reference # CED/TFL **35050** (Dr. M Yousaf)
 Reference of the request letter # ST/UET/20200626

Dated: 26-06-2020
 Dated: 26-06-2020

Tension Test Report (Page -1/1)

Date of Test 26-06-2020
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile 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	0.371	3	0.373	0.11	0.109	3100	4450	62200	62600	89200	89900	1.30	16.3	Model
2	0.370	3	0.372	0.11	0.109	3200	4650	64200	64790	93200	94200	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile test														
Bend Test														

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