



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 RTCC Pvt Ltd
Lahore

Reference # CED/TFL **34187** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 15-11-2019

Dated: 15-11-2019

Tension Test Report (Page – 1/1)

Date of Test 19-11-2019
Gauge length 2 inches
Description Aluminum Pipe & Plate Strip Tensile Test

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	Pipe 4mm Thickness	27.40x3.45	94.53	2040	2600	211.70	269.82	0.25	12.50	
2		27.40x3.45	94.53	2170	2500	225.20	259.44	0.20	10.00	
3	Pipe 5mm Thickness	27.60x4.90	135.24	2481	2900	179.97	210.36	0.40	20.00	
4		27.60x4.90	135.24	2440	2800	176.99	203.11	0.40	20.00	
5	Plate 20mm Thickness	27.60x20.20	557.52	16540	18300	291.03	322.00	0.50	25.00	
6		27.60x20.20	557.52	15630	18400	275.02	323.76	0.40	20.00	
Only Six Samples for Tensile Test										
Bend Test										

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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 Engineer (Civil)
 University of Okara
 (Construction of University Service Club at University of Okara)

Reference # CED/TFL **34189** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 18-11-2019
 Dated: 18-11-2019

Tension Test Report (Page -1/1)

Date of Test 19-11-2019
 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	4000	5100	80200	78270	102200	99800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Assistant Engineer (Civil)
 University of Okara
 (Finishing and External Development of Student Shopping Center at University of Okara)

Reference # CED/TFL **34190** (Dr. Ali Ahmed)
 Reference of the request letter # Nil

Dated: 18-11-2019
 Dated: 18-11-2019

Tension Test Report (Page -1/1)

Date of Test 19-11-2019
 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	0.388	3	0.381	0.11	0.114	4000	5200	80200	77320	104200	100600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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STRUCTURAL ENGINEERING DIVISION
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To,
 Deputy Director (QCD)
 WASA, LDA, Lahore
 (Manufacturing of R.C.C Manhole Covers in Different Sizes)(M/s Akram Pipes)

Reference # CED/TFL **34191** (Dr. Ali Ahmed)
 Reference of the request letter # QCD/1495-96

Dated: 18-11-2019
 Dated: 13-11-2019

Tension Test Report (Page – 1/2)

Date of Test 19-11-2019
 Gauge length 2 inches
 Description Angle Iron 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	2x2x1/4	23.95x6.75	161.66	5800	9000	351.96	546.14	0.50	25.00	
2		23.95x6.75	161.66	6200	9300	376.23	564.34	0.50	25.00	
-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	
-		-	-	-	-	-	-	-	-	-
Only Two Samples for Tensile and One sample for Bend Test										
Bend Test										
Strip Taken from Angle Iron (2"x2"x1/4") Bend Test Through 180° is Satisfactory										

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Deputy Director (QCD)
WASA, LDA, Lahore
(Manufacturing of R.C.C Manhole Covers in Different Sizes)(M/s Akram Pipes)

Reference # CED/TFL **34191** (Dr. Ali Ahmed)
Reference of the request letter # QCD/1495-96

Dated: 18-11-2019
Dated: 13-11-2019

Weight & Size Test Report (Page – 2/2)

Date of Test 19-11-2019
Gauge length -----
Description Angle Iron Weight and Size Test

Sr. No.	Designation	Weight	Length	Weight per Unit Length	L-1	L-2	Thickness	Remark
	(inch)	(g)	(cm)	(kg/m)	(mm)	(mm)	(mm)	
1	2x2x1/4	3024	61.00	4.96	52.00	52.10	6.50	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
Only One Sample for Test								

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To,
 Resident Engineer
 G3 Engineering Consultant (Pvt) Ltd
 Consultancy Services for Resident Construction Supervision of Provision of Construction of
 Infrastructure and Allied Works at Rachna Industrial Parks at District Sheikhpura. Phase-II

Reference # CED/TFL **34196** (Dr. Ali Ahmed)
 Reference of the request letter # G-3/0207/1098

Dated: 18-11-2019
 Dated: 15-11-2019

Tension Test Report (Page -1/1)

Date of Test 19-11-2019
 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	0.362	3	0.368	0.11	0.106	3300	5300	66200	68430	106200	109900	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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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To,
 Resident Engineer
 NESPAK
 Development of Infrastructure in LDA City, Lahore (Package 2 of Development Area – 1)
 (Kamran Steel)

Reference # CED/TFL **34198** (Dr. Ali Ahmed)
 Reference of the request letter # 4047/13/OH/03-MBCC/28

Dated: 18-11-2019
 Dated: 12-11-2019

Tension Test Report (Page -1/1)

Date of Test 19-11-2019
 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	4.203	10	1.254	1.27	1.235	39200	54600	68100	69950	94800	97500	1.30	16.3	
2	4.188	10	1.252	1.27	1.231	34800	51200	60400	62310	88900	91700	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

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