



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/06/36532

Dated: 08-06-2021

Dated of Test: 10-06-2021

To

A. Senior Engineer

University of Education, Lahore

New Sewerage Line at UE Faisalabad Campus & Establishment of Museum at UE Faisalabad Campus

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

Reference to your letter No. UE/Engg/CE/2021/293, dated 27.05.2021 on the subject cited above. Two R.C.C. Pipes as received by us has 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)	(foot)	(foot)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	9	7.79	7.33	0.91	0.73	1.05	5400	7500	2213	3073
2	12	7.74	7.29	1.33	0.99	2.06	7700	12300	2357	3765

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,
M/S Shenjio Engineering Company
Lahore

Reference # CED/TFL **36533** (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 08-06-2021

Dated: 08-06-2021

Tension Test Report (Page – 1/1)

Date of Test 10-06-2021

Gauge length 2 inches

Description Welded Plate Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
1	Welded Plate	26.00x9.60	249.60	11800	463.77	0.50	25.00	Failure at the location other than weld
2		25.80x9.60	247.68	11300	447.57	0.30	15.00	Failure at the location other than weld
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-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

Only two samples for tensile and one sample for bend test

Bend Test

Strip taken from Welded Plate Bend Test Through 180° is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Defence Housing Authority.
Lahore Cantt
(Electrical Work PMTs for Sector E Phase IX) – (M/s DHA C)

Reference # CED/TFL **36538** (Dr. Usman Akmal)
Reference of the request letter # 408/241/E/Lab/80/44

Dated: 09-06-2021
Dated: 08-06-2021

Tension Test Report (Page -1/1)

Date of Test 10-06-2021
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	3400	4800	68200	66790	96200	94300	1.40	17.5	Kamran Steel
2	0.380	3	0.377	0.11	0.112	3300	4800	66200	65140	96200	94800	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
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To,
 Resident Engineer
 NESPAK
 Development of Infrastructure in LDA City, Lahore

Reference # CED/TFL **36539** (Dr. Usman Akmal)
 Reference of the request letter # 4047/13/MA/09/43

Dated: 09-06-2021
 Dated: 01-06-2021

Tension Test Report (Page -1/1)

Date of Test 10-06-2021
 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	77000	100200	101400	0.80	10.0	Mughal Steel
2	0.366	3	0.370	0.11	0.107	3600	4900	72200	73850	98200	100600	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
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To,
 Construction Manager
 Zameen Aurum
 Construction of Zameen Aurum at Plot No. 15 Block, Gulberg-III, Main Feroze Pur Road,
 Lahore

Reference # CED/TFL **36540** (Dr. Usman Akmal)
 Reference of the request letter # ZD/ZA/STR010

Dated: 09-06-2021
 Dated: 09-06-2021

Tension Test Report (Page -1/1)

Date of Test 10-06-2021
 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	0.377	3	0.375	0.11	0.111	3200	5000	64200	63710	100200	99600	1.30	16.3	Afaq (Batala)
2	0.370	3	0.372	0.11	0.109	3200	4900	64200	64830	98200	99300	1.20	15.0	
3	4.242	10	1.260	1.27	1.247	37200	56000	64600	65760	97200	99000	1.60	20.0	
4	4.217	10	1.256	1.27	1.240	36000	54600	62500	64010	94800	97100	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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To,
 Flight Lieutenant
 Assistant Director
 Fazaia Housing Scheme Phase-II
 Central Mosque at Fazaia Housing Scheme (Phase II) Lahore

Reference # CED/TFL **36541** (Dr. Usman Akmal)

Dated: 09-06-2021

Reference of the request letter # FHSL-II/5811/Org ((CA-12)

Dated: 08-06-2021

Tension Test Report (Page -1/1)

Date of Test 10-06-2021

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	0.374	3	0.374	0.11	0.110	3200	4500	64200	64090	90200	90200	1.50	18.8	
2	0.375	3	0.375	0.11	0.110	3100	4500	62200	61980	90200	90000	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														

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