



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/06/36654

Dated: 28-06-2021

Dated of Test: 06-07-2021

To
Assistant Tehsil Officer
Tehsil Council Chichawatni
(Construction of Sewerage & Drainge Scheme Chak No. 30/14-L Chichawatni

Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -1/2)

Reference to your letter No. TC/CCL/730, dated 19.04.2021 on the subject cited above. One R.C.C. Pipe 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	15	7.74	7.31	1.62	1.24	2.27	8000	11900	1944	2892

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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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

Ref: CED/TFL/06/36654

Dated: 28-06-2021

Dated of Test: 06-07-2021

To
Assistant Tehsil Officer
Tehsil Council Chichawatni
(Construction of Sewerage Scheme Chak No. 168/9-L Chichawatni

Subject: TESTING OF R.C.C. PIPE [ASTM-C76 - 08a] (Page -2/2)

Reference to your letter No. TC/CCL/719, dated 19.04.2021 on the subject cited above. One R.C.C. Pipe 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	18	7.73	7.34	1.92	1.51	2.46	5400	7500	1072	1489

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,
 GM
 Civil and Structural Engineering Department
 Engro Fertilizers
 Compressor Foundation (K901-E) of Encorp-3 Engro Fertilizer Daharki.

Reference # CED/TFL **36684** (Dr. Waseem Abbass)
 Reference of the request letter # Nil

Dated: 05-07-2021
 Dated: 02-07-2021

Tension Test Report (Page -1/2)

Date of Test 06-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.370	10	9.45	0.12	0.109	3620	4400	66505	73450	80835	89300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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STRUCTURAL ENGINEERING DIVISION
Test Floor Laboratory
Department of Civil Engineering
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Pakistan. Ph: 92-42-99029202

To,
 GM
 Civil and Structural Engineering Department
 Engro Fertilizers
 Compressor Foundation (K901-E) of Encorp-3 Engro Fertilizer Daharki.

Reference # CED/TFL **36684** (Dr. Waseem Abbass)
 Reference of the request letter # Nil

Dated: 05-07-2021
 Dated: 02-07-2021

Tension Test Report (Page -2/2)

Date of Test 06-07-2021
 Gauge length 8 inches
 Description Anchor Bolt Bar Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	5.164	32	28.94	-----	657.8	34800	44600	519	665	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

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
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To,
M/S Altec International
Lahore

Reference # CED/TFL **36685** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 05-07-2021

Dated: 04-07-2021

Tension Test Report (Page – 1/1)

Date of Test 06-07-2021
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kN)	
1	8.3	0.264	54.20	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

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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,
 Jamia Masjid Gulzair-e-Madina
 Thatha Naik, Tehsil Phaluia, Distt. M.B.Din

Reference # CED/TFL **36689** (Dr. Waseem Abbass)
 Reference of the request letter # Nil

Dated: 05-07-2021

Dated: 05-07-2021

Tension Test Report (Page -1/1)

Date of Test 06-07-2021
 Gauge length 8 inches
 Description Deformed SteeBar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.381	3/8	0.378	0.11	0.112	3670	4560	73600	72250	91400	89800	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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Pakistan. Ph: 92-42-99029202

To,
 Adnan Khalil
 Lahore
 (Zubaida Heights, Lahore)(BDM Developers)

Reference # CED/TFL **36690** (Dr. Waseem Abbass)
 Reference of the request letter # Nil

Dated: 05-07-2021
 Dated: 05-07-2021

Tension Test Report (Page -1/1)

Date of Test 06-07-2021
 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	3130	4380	62800	63220	87800	88500	1.60	20.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test														
Bend Test														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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University of Engineering and Technology Lahore, 54890
Pakistan. Ph: 92-42-99029202

To,
M/S S.J Steel Re-Rolling Mills
Lahore

Reference # CED/TFL **36691** (Dr. Waseem Abbass)
Reference of the request letter # Nil

Dated: 05-07-2021
Dated: 02-07-2021

Tension Test Report (Page -1/1)

Date of Test 06-07-2021
Gauge length 8 inches
Description Plain Steel Bar Tensile Test

Sr. No.	Diameter / size	Reduced Dia	Reduced Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(mm)	(mm)	(mm ²)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	50	36.00	1017.876	43200	61200	416.35	589.83	1.80	22.50	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test										
-	-	-	-	-	-	-	-	-	-	
Bend Test										

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

To,
 Executive Engineer (B&W)
 UVAS, Lahore
 Construction of Canopy at Sports Ground, City Campus, Lahore

Reference # CED/TFL **36693** (Dr. Waseem Abbass)
 Reference of the request letter # E.E 660

Dated: 05-07-2021
 Dated: 05-07-2021

Tension Test Report (Page -1/1)

Date of Test 06-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.378	3/8	0.376	0.11	0.111	3340	4690	67000	66290	94000	93100	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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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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-2
 ACES Site Office Sector-V
 DHA Multan

Reference # CED/TFL **36694** (Dr. Waseem Abbass)
 Reference of the request letter # ACES/DHAM/SEC-V/560

Dated: 05-07-2021
 Dated: 03-07-2021

Tension Test Report (Page -1/1)

Date of Test 06-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		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	0.374	10	9.51	0.12	0.110	3210	4230	58973	64280	77712	84700	1.30	16.3	SJ Steel
2	0.374	10	9.51	0.12	0.110	3230	4200	59340	64720	77161	84200	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

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,
 Resident Engineer
 NESPAK
 Construction of Underpass at Ghulab Davi Hospital and Additional Lanes on Lahore Bridge

Reference # CED/TFL **36695** (Dr. Waseem Abbass)
 Reference of the request letter # GD/103/RE/05/09

Dated: 05-07-2021
 Dated: 05-07-2021

Tension Test Report (Page -1/1)

Date of Test 06-07-2021
 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	4.244	10	1.260	1.27	1.247	37600	56000	65300	66440	97200	99000	1.30	16.3	Batala Premium
2	4.192	10	1.253	1.27	1.232	37600	55800	65300	67260	96900	99900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#10 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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To,
 Resident Engineer
 ACES
 DHA Multan
 (Development of Sector – T - DHA Multan)

Reference # CED/TFL **36696** (Dr. Waseem Abbass)
 Reference of the request letter # RE/Sec-T/Material/11

Dated: 05-07-2021
 Dated: 01-07-2021

Tension Test Report (Page -1/2)

Date of Test 06-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A496

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.169	5	5.24	19.40	21.54	1230	1480	622	560	748	674	FF Steel
2	0.164	5	5.16	19.40	20.92	1200	1390	607	563	703	652	
3	0.256	6	6.44	32.30	32.58	1630	2280	495	491	692	686	
4	0.258	6	6.47	32.30	32.83	1390	1960	422	415	595	586	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test												
Bend Test												
5mm Dia Bar Bend Test Through 180° is Satisfactory												
6mm Dia Bar Bend Test Through 180° is Satisfactory												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Test Floor Laboratory
Department of Civil Engineering
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To,
 Resident Engineer
 ACES
 DHA Multan
 (Development of Sector – T - DHA Multan)

Reference # CED/TFL **36696** (Dr. Waseem Abbass)
 Reference of the request letter # RE/Sec-T/Material/10

Dated: 05-07-2021
 Dated: 03-07-2021

Tension Test Report (Page -2/2)

Date of Test 06-07-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A496

Sr. No.	Weight (kg/m)	Diameter/ Size (mm)		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (Mpa)		Ultimate Stress (Mpa)		Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual	
1	0.162	5	5.13	19.40	20.65	1280	1570	647	608	794	746	Ali Steel
2	0.168	5	5.22	19.40	21.40	1130	1290	571	518	652	591	
3	0.261	6	6.51	32.30	33.28	1580	2020	480	466	614	595	
4	0.266	6	6.57	32.30	33.87	1720	2500	522	498	759	724	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two samples for bend test												
Bend Test												
5mm Dia Bar Bend Test Through 180° is Satisfactory												
6mm Dia Bar Bend Test Through 180° is Satisfactory												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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UET Lahore, Pakistan.

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