



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/04/4931

Dated: 16-04-2024

Dated of Test: 23-04-2024

To

Cantonment Executive Officer
Lahore Cantonment Board
Lahore
(Laying of Sewer Line & Construction of Drain at Arif Jan Road.)
(M/s Sitara Construction Company.)

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

Reference to your letter No. SCE/Tender-2023-24/386-Reg, dated 12.01.2024 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	18	7.76	7.30	23.07	18.04	2.52	16000	21000	3215	4219

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
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Ref: CED/TFL/04/4932

Dated: 16-04-2024

Dated of Test: 23-04-2024

To

Cantonment Executive Officer
Lahore Cantonment Board
Lahore
(Laying of Sewer Line & Improvement of Drain at Tufail Road (DeSOM)
(M/s MK & Sons.)

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

Reference to your letter No. SCE/Tender-2023-24/387-Reg, dated 12.01.2024 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	18	7.74	7.33	23.03	18.20	2.42	14000	17000	2775	3370

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Department of Civil Engineering
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Ref: CED/TFL/04/4933

Dated: 16-04-2024

Dated of Test: 23-04-2024

To

Cantonment Executive Officer
Lahore Cantonment Board
Lahore
(Laying of Sewer Line / Improvement of Drain at Sarwar Road
(from Munir Road to Khursheed Alam Road.)
(M/s Sitara Construction Company.)

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

Reference to your letter No. SCE/Tender-2023-24/8032-Reg, dated 29.12.2023 on the subject cited above. Two R.C.C. Pipe as received by us have 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	18	7.78	7.33	22.99	18.07	2.46	16500	22000	3294	4392
2	24	7.79	7.15	30.00	23.98	3.01	13730	24390	2118	3763

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,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL 4935 (Dr. Usman Akmal)
Reference of the request letter # WRD/010/LAB028

Dated: 17-04-2024

Dated: 17-04-2024

Tension Test Report (Page – 1/1)

Date of Test

23-04-2024

Description

Steel Wire Rope (HC Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	28 (6x36)	2.78	36400	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION
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Ref: CED/TFL/04/4940

Dated: 18-04-2024

Dated of Test: 23-04-2024

To

Resident Engineer
Techno-Consultant International (Pvt) Ltd.
PRSWSS Project - Norh- Noorpur Thal
“Procurement of Civil Works, North, Tehsil Noorpur Thal
(Villages Tetri abd Chak 17/MB)”

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

Reference to your letter No. TCI/PRSWSSP-NORTH/PHASE-III/NPT-01/020, dated 26.03.2024 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.80	7.29	16.06	11.90	2.08	9500	14000	2895	4266

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/04/4941

Dated: 18-04-2024

Dated of Test: 23-04-2024

To

Material/Q.C Engineer
NESPAK
PRSWSSP, Taunsa
Punjab Rural Municipal Services Company.
Procurement of Civil Works, South-III, Tehsil Taunsa Package TAU-03
(Villages: Sona & Dona)

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

Reference to your letter No. NESPAKPRSWSSP/TAUNSA/ME/90, dated 17.01.2024 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)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.76	7.29	15.98	11.98	2.00	12000	17000	3633	5146

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Crafters Polypropylene Packages (Pvt) Ltd.
Karachi

Reference # CED/TFL 4951 (Dr. Usman Akmal)
Reference of the request letter # Nil

Dated: 19-04-2024

Dated: 18-04-2024

Tension Test Report (Page – 1/1)

Date of Test 23-04-2024
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	18	1.12	13100	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL 4958 (Dr. Usman Akmal)
Reference of the request letter # WRD/010/LAB030

Dated: 22-04-2024

Dated: 22-04-2024

Tension Test Report (Page – 1/1)

Date of Test

23-04-2024

Description

Steel Wire Rope (FC Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	14 (6x12)	0.52	11900	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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To,

M/S Pakistan Wire Industries (Pvt) Limited
Karachi

Reference # CED/TFL **4959** (Dr. Usman Akmal)
Reference of the request letter # WRD/010/LAB029

Dated: 22-04-2024
Dated: 22-04-2024

Tension Test Report (Page – 1/1)

Date of Test 23-04-2024
Description Steel Wire Rope (FC Ungalvanized) Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	12 (6x12)	0.39	10100	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

Witness by Muhammad Wasim Khan (Pakistan Wire Industries)

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

Project Incharge
Malik Tanveer & Brothers
Supplying of Rainforced Concrete Conduists for C5 Project, Chashma.

Reference # CED/TFL **4962** (Dr. Usman Akmal)
Reference of the request letter # MTB/C5/23/009

Dated: 22-04-2024
Dated: 17-04-2024

Tension Test Report (Page # 1/1)

Date of Test 23-04-2024
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	0.198	8	6.91	-----	0.058	1300	1800	-----	49260	-----	68200	1.10	13.8	Ajmal Steel
2	0.196	8	6.88	-----	0.058	1400	1900	-----	53620	-----	72800	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
8mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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