



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/05/5074

Dated: 14-05-2024

Dated of Test: 29-05-2024

To

Project Manager/RE
Osmani & Company (Pvt.) Ltd.
EDCS Project, Pakpattan
Engineering, Design & Construction Supervision for Punjab Rural Sustainable Water Supply and Sanitation Project (PRSWSSP) Cluster Central II.

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

Reference to your letter No. PM/OCL/PRSWSSP/EDCS/Pkg-05/2024/31, dated 30.04.2024 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	7.75	7.35	16.14	11.82	2.16	11200	15200	3410	4628

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

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http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
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Ref: CED/TFL/05/5135

Dated: 23-05-2024

Dated of Test: 29-05-2024

To

Deputy Team Leader / Resident Engineer / Project Manager
Techno - Consult International (Pvt) Ltd.
PRSWSS Project - North
"Procurement of Civil Works, North, Tesil Kallar Kahar (Village Khairpur and Khai)"

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

Reference to your letter No. TCI/PRSWSSP-NORTH/PHASE-V/CLK-02/21, dated 21.03.2024 on the subject cited above. Two R.C.C. Pipes 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	12	7.76	7.37	15.94	11.84	2.05	11200	14000	3397	4246
2	12	7.76	7.36	16.02	11.98	2.02	11500	14400	3451	4322

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/05/5141

Dated: 27-05-2024

Dated of Test: 29-05-2024

To

Head QA/QC
Vision Developers Pvt. Ltd.
Park View City Lahore.

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

Reference to your letter No. Nil, dated 25.05.2024 on the subject cited above. Two R.C.C. Pipes 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	9	7.76	7.28	12.44	8.96	1.74	8000	9600	3245	3894
2	9	7.78	7.29	12.52	9.05	1.73	8200	9800	3288	3930

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,

M/S S.P. Nizam
Lahore

Reference # CED/TFL **5145** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 27-05-2024

Dated: 27-05-2024

Tension Test Report (Page – 1/1)

Date of Test 29-05-2024

Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	22	2.08	18500	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,

M/S S.P. Nizam
Lahore

Reference # CED/TFL **5146** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 27-05-2024

Dated: 27-05-2024

Tension Test Report (Page – 1/1)

Date of Test 29-05-2024

Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	
1	25	2.59	23100	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
Only one sample for Test				

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/05/5147

Dated: 27-05-2024

Dated of Test: 29-05-2024

To

Head QA/QC
Vision Developers Pvt. Ltd.
Park View City Lahore.

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

Reference to your letter No. Nil, dated 27.05.2024 on the subject cited above. Two R.C.C. Pipes 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	9	7.77	7.29	12.60	8.81	1.89	10500	16000	4328	6595
2	9	7.78	7.27	12.52	8.88	1.82	11000	15700	4511	6439

I/C Testing Laboratoires
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To,

M/S Sab Constructions
 Lahore
 (Shell & Core Works for Colgate Factory, Sundar Estate, Lahore.)

Reference # CED/TFL **5148** (Dr. Ali Ahmed)
 Reference of the request letter # SAb.CP/SCW/ST/001

Dated: 27-05-2024
 Dated: 27-05-2024

Tension Test Report (Page -1/1)

Date of Test 29-05-2024
 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	0.376	10	9.53	0.12	0.111	3200	4700	58789	63780	86347	93700	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one samples 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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To,
M/S Jaffar Builders
Muzaffargarh

Reference # CED/TFL **5151** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 27-05-2024
Dated: 27-05-2024

Tension Test Report (Page -1/1)

Date of Test 29-05-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in ²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	3	0.373	0.11	0.109	3200	4700	64200	64630	94200	95000	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one samples for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
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To

Deputy Team Leader / Resident Engineer / Project Manager
Techno - Consult International (Pvt) Ltd.
PRSWSS Project - North
"Procurement of Civil Works, North, Tesil Kallar Kahar (Village Khairpur and Khai)"

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

Reference to your letter No. TCI/PRSWSSP-NORTH/PHASE-V/CLK-02/21, dated 21.03.2024 on the subject cited above. Two R.C.C. Pipes as received by us have been tested. The results are tabulated as under.

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	(inch)	(foot)	(foot)	(inch)	(inch)	(inch)	(kg)	(kg)	Pound/Linear foot/foot	Pound/Linear foot/foot
1	12	7.76	7.35	16.14	11.68	2.23	10500	14500	3236	4469
2	12	7.74	7.33	15.98	11.98	2.00	11200	15300	3372	4606

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