



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/03/4865

Dated: 27-03-2024

Dated of Test: 05-04-2024

To

Cantonment Executive Officer
Lahore Cantonment Board
Lahore
(Laying of Sewer Line & Improvement of Drain at Sarfraz Rafiqui Road
(from Bagh Ali Road to Aziz Bhatti Road.)

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

Reference to your letter No. SCE/Tender-2023-24/8031-A-Reg, dated 29.12.2023 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	7.80	7.30	23.15	18.03	2.56	11000	16000	2212	3217

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 1- You can See your reports On Internet in the following web site
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Dated: 27-03-2024

Dated of Test: 05-04-2024

To

Cantonment Executive Officer
Lahore Cantonment Board
Lahore
(Laying of Sewer Line & Improvement of Drain at Sarfraz Rafiqui Road
(from Munir Road to Khursheed Alam Road.)

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

Reference to your letter No. SCE/Tender-2023-24/388-A-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	7.77	7.37	23.03	18.05	2.49	12500	17500	2488	3483

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UET Lahore, Pakistan.

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Ref: CED/TFL/04/4905

Dated: 03-04-2024

Dated of Test: 05-04-2024

To

M/s National Technocommercial Services (Private) Limited
Lahore

Subject: - BREAKING LOAD TEST OF LUG No. MK-1 No.59

Reference to your Letter No. NTS/DC-Lug 59/DC/L122, dated: 03/04/2024, on the subject cited above. Two Lugs (dia 44.0 mm, Length 66.50mm) with assembly as received by us have been tested. The results are shown below:

Sample No.	:	1
Breaking Load	:	15100 kg
Remarks	:	Hook Broken of Lug
Sample No.	:	2
Breaking Load	:	18100 kg
Remarks	:	Hook Broken of Lug

Witness by S/LT Farhat Amir Tartar PN

A/GO Dep POF Wah

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/04/4905

Dated: 03-04-2024

Dated of Test: 05-04-2024

To

M/s National Technocommercial Services (Private) Limited
Lahore

Subject: - BREAKING LOAD TEST OF LUG) (MK-2) No. - 43A (ATR)

Reference to your Letter No. NTS/DC-Lug. Sample 43A/DC/L122, dated: 03/04/2024, on the subject cited above. Two Lugs (dia 44 mm, Length 59mm) with assembly as received by us have been tested. The results are shown below:

Sample No.	:	1
Breaking Load	:	13400 kg
Remarks	:	Hook Broken of Lug
Sample No.	:	2
Breaking Load	:	15200 kg
Remarks	:	Hook Broken of Lug

Witness by S/LT Farhat Amir Tartar PN

A/GO Dep POF Wah

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Ref: CED/TFL/04/4908

Dated: 03-04-2024

Dated of Test: 05-04-2024

To

Material Engineer
NESPAK
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
Engineering Design and Construction Supervision (EDCS)
Cluster Central -I, Tehsil Bhowana (Contract Package -BNA-01)

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

Reference to your letter No. NESPAK/PRSWSSP/BHOWANA/RE/61,
dated 14.02.2024 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	7.77	7.36	15.94	11.92	2.01	9500	15000	2866	4525

I/C Testing Laboratories
UET Lahore, Pakistan.

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To,

Chief Resident Engineer
Osmani & Company (Pvt) Ltd.
AICC, Faisalabad
Balance / Repair of Boundary Wall at Different Locations along Periphery of M-3
Industrial City near Sahianwala Interchange M-4 Motorway, Faisalabad.

Reference # CED/TFL **4912** (Dr. M Rizwan Riaz)

Dated: 04-04-2024

Reference of the request letter # CRE/M3IC/FIC-057Lab/01

Dated: 02-04-2024

Tension Test Report (Page -1/1)

Date of Test 05-04-2024

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	0.388	3	0.381	0.11	0.114	3360	4910	67400	64960	98400	95000	1.10	13.8	SJ Steel
2	0.386	3	0.380	0.11	0.114	3440	4940	69000	66740	99000	95900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
UET Lahore, Pakistan.

Note:

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To,
 Assistant Director
 Defence Housing Authority, Gujranwala
 “Construction of 10 Marla Villas (Block A)”

Reference # CED/TFL **4913** (Dr. M Rizwan Riaz)
 Reference of the request letter # 111/3/AD Bldg/Lab/1305

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

Tension Test Report (Page -1/1)

Date of Test 05-04-2024
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		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	0.373	3	0.374	0.11	0.110	3590	4890	72000	72160	98000	98300	1.20	15.0	FF Steel
2	0.370	3	0.372	0.11	0.109	3590	4890	72000	72800	98000	99200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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
UET Lahore, Pakistan.

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Ref: CED/TFL/04/4920

Dated: 05-04-2024

Dated of Test: 05-04-2024

To

M/s National Technocommercial Services (Private) Limited
Lahore

Subject: - BREAKING LOAD TEST OF LUG) (MK-2) No. - 43A (ATR)

Reference to your Letter No. NTS/DC-Lug. Sample 43A/L122, dated: 05/04/2024, on the subject cited above. Two Lugs (dia 44 mm, Length 59mm) with assembly as received by us have been tested. The results are shown below:

Sample No.	:	1
Breaking Load	:	14000 kg
Remarks	:	Hook Broken of Lug
Sample No.	:	2
Breaking Load	:	14600 kg
Remarks	:	Hook Broken of Lug

Witness by S/LT Farhat Amir Tartar PN

A/GO Dep POF Wah

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