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/10/5887 Dated: 23-10-2024

Dated of Test: 05-11-2024

To

Dy Dir Infra
Defence Housing Authority
Gujranwala
"Sector J"

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

Reference to your letter No. 111/15/DD/Lab/J/417, dated 10.10.2024 on the subject cited above. Three 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	7.81	7.32	16.18	12.21	1.99	12500	17500	3700	5180
2	15	7.78	7.33	19.53	15.08	2.23	8500	13000	2034	3111
3	15*	7.78	7.33	19.72	15.02	2.35	6500	8500	1562	2042

* Class - II

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
1- You can See your reports On Internet in the following web site
http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
2. The above results pertain to sample /samples supplied to this laboratory.
3- Sealed sample / Unsealed sample / Marked sample/Signed Samples

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/10/5945 Dated: 01-11-2024

Dated of Test: 05-11-2024

To

Resident Engineer
Asian Consulting Engineers Pvt Ltd.
Punjab Rural Sustainable Water Supply & Sanitation Project (PRSWSSP)
Engineering Design and Construction Supervision of Cluster South-I

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

Reference to your letter No. AsCE/PRSWSSP/CS1/P-3/1056, dated 24.10.2024 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	7.78	7.36	16.26	12.31	1.98	8500	11500	2484	3360
2	12	7.79	7.38	16.18	12.20	1.99	11000	14000	3235	4117

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

To,

Resident Engineer
NESPAK
Construction of Flyover at 47/Pull Length 4400 Rft in District Sargodha.

Reference # CED/TFL **5949** (Dr. Usman Akmal) Dated: 04-11-2024
Reference of the request letter # 4376/JQK/24/7057 Dated: 02-10-2024

Tension Test Report (Page -1/1)

Date of Test 05-11-2024
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	0.373	3	0.373	0.11	0.110	3790	4690	76000	76280	94000	94400	1.10	13.8	Sheikhoo Steel
2	0.371	3	0.373	0.11	0.109	3720	4660	74600	75180	93400	94200	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

#3 Bar Bend Test Through 180º 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,

Deputy General Manager Works
Habib Rafiq Engineering (Pvt.) Limited
101 Tower, Lahore

Reference # CED/TFL **5950** (Dr. Usman Akmal) Dated: 04-11-2024
Reference of the request letter # HRLE/SKG/2024/Kamran/173 Dated: 02-11-2024

Tension Test Report (Page -1/1)

Date of Test 05-11-2024
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (mm)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.414	10	9.99	0.12	0.122	3720	5250	68343	67450	96451	95200	1.20	15.0	Kamran Steel
2	0.413	10	9.99	0.12	0.122	4130	5350	75875	74920	98288	97100	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: only two samples for tensile and one sample for bend test

Bend Test

10mm Dia Bar Bend Test Through 180º is Satisfactory

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,

M/S Prime Steel Re-Rolling Mills
Sheikhupura

Reference # CED/TFL **5952** (Dr. Asad Ali) Dated: 05-11-2024
Reference of the request letter # Nil Dated: 05-11-2024

Tension Test Report (Page -1/1)

Date of Test 05-11-2024
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	0.375	3	0.375	0.11	0.110	3380	4960	67800	67520	99400	99100	1.20	15.0	Prime Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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