

Ref: CED/TFL/10/7600

Dated: 03-10-2025

Dated of Test: 08-10-2025 (Dr. Usman Akmal)

To

Mr. Ali Zahid Latif (Principal Engineer)

Nespak (Pvt.) Ltd.

Consultancy Services for Third Party Evaluation of the Development Works of the Phase-II of NFC Employees Cooperative Housing Society Ltd.

Subject: **TESTING OF R.C.C. PIPE (ASTM C-76)**

Reference to your letter no: 4978/13/AZL/01/02 on dated 03.10.2025 on the subject cited above. Two R.C.C. Pipes 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	D-Load (0.01 inch)	D-Load Ultimate
	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(kg)	(kg)	Lbs/Linear foot/foot	Lbs/Linear foot/foot
1	9	93.2	87.3	11.10	9.10	1.00	10500	12000	4196	4795
2	12	93.6	88.0	15.60	11.53	2.03	14000	18000	4379	5630

Test Performed and Verified by:

Ref: CED/TFL/10/7603

Dated: 06-10-2025

Dated of Test: 08-10-2025 (Dr. Safer Abbas)

To

**Resident Engineer
Information Technology University of Punjab, Lahore
Construction of Sewerage System (Phase-I) at Information Technology
University, Lahore**

Subject: **TESTING OF R.C.C. PIPE (ASTM C-76)**

Reference to your letter no: ITU/OEW25/146 on dated 11.09.2025 on the subject cited above. Three R.C.C. Pipes 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	D-Load (0.01 inch)	D-Load Ultimate
	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)	(kg)	(kg)	Lbs/Linear foot/foot	Lbs/Linear foot/foot
1	12	93.0	88.2	16.0	11.80	2.10	12500	14500	3813	4423
2	15	93.0	88.0	19.4	15.13	2.13	9500	15000	2265	3576
3	18	93.1	87.5	23.1	18.23	2.43	7500	11700	1492	2328

Test Performed and Verified by:

To,

Engr. M. Asif Javaid (Project Manager ESAC)
Engineering Services & Architectural Consultants
Grand Central Mall Project Faisalabad
(Aziz Steel) (Witness By: Mr. Shafiq-ur-Rehman, Project Manager)

Reference # CED/TFL 7609 (Dr. Usman Akmal)
Reference of the request letter # ESAC/TGC/GCMF/284

Dated: 07-10-2025
Dated: 02-10-2025

Tension Test Report (Page-1/1)

Date of Test 08-10-2025
Gauge Length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A706

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (#)	Actual Diameter (inch)	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			
1	4.167	10	1.249	1.270	1.2244	49800	66800	86425	89642	115927	120243	1.3	16.3	-
2	4.218	10	1.256	1.270	1.2393	44800	63200	77747	79674	109679	112397	1.4	17.5	-
3	4.260	10	1.262	1.270	1.2517	45800	63800	79483	80643	110721	112337	1.4	17.5	-
4	4.236	10	1.259	1.270	1.2449	50200	66400	87119	88878	115233	117560	1.3	16.3	-
5	4.138	10	1.2443	1.270	1.216	45600	62200	79136	82647	107944	112733	1.4	17.5	-
6	4.197	10	1.2531	1.270	1.2333	44800	62200	77747	80058	107944	111152	1.5	18.75	-

Note: Only 6 Samples for Tensile and 3 Samples for Bend test

Bend Test	
# 10 Bar Bend Test Through 180 Degree is Satisfactory	
# 10 Bar Bend Test Through 180 Degree is Satisfactory	
# 10 Bar Bend Test Through 180 Degree is Satisfactory	

Test Performed and Verified by:

To,

Engr. Farrukh Alvi (Deputy General Manager Works)
Habib Rafiq Engineering (Pvt.) Ltd.
101 Tower, Lahore
(Hunza Steel)

Reference # CED/TFL

7615 (Dr. Safer Abbass)

Dated: 08-10-2025

Reference of the request letter #

HRLE/SKG/2025/Hunza/10-19.66/236

Dated: 08-10-2025

Tension Test Report

(Page-1/1)

Date of Test 08-10-2025

Gauge Length 8 inches

Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Actual Weight Per Unit Length (lb/ft)	Nominal Size (mm)	Actual Diameter (inch)	Area (in ²)		Yield Load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
				Nominal	Actual	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.405	10	0.389	0.120	0.1191	37.80	50.20	70787	71330	94007	94730	1.1	13.8	-
2	0.405	10	0.389	0.120	0.1191	36.70	49.70	68727	69222	93071	93742	1.2	15.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 Samples for Tensile and 1 Samples for Bend test

Bend Test

10mm Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by: