Ref: CED/TFL/06/7053 Dated: 18-06-2025

Dated of Test: 13-08-2025 (Dr. Usman Akmal)

To

Mr. Shabbir Ahmed (Resident Engineer)
Nespak (Pvt.) Ltd.
Procurement of Civil Works, South-III, Tehsil Taunsa Package TAU-I

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter no: NESPAK/PRSWSSP/TAUNSA/RE/622 on dated 13.03.2025 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	93.3	88.1	16.1	12.30	1.90	13000	16000	3809	4687
2	12	93.0	88.2	16.0	11.93	2.03	14000	17200	4223	5188
3	12	93.1	87.6	16.0	11.73	2.13	16300	19500	5034	6023

Test Performed and Verified by:

To,

Peng Zhiwen (Executive Project Manager)
China Civil Engineering Construction Corporation
DASU KKH-01

Reference # CED/TFL **7342** (Dr. Rizwan Riaz) Dated: 07-08-2025
Reference of the request letter # CCECC/PAK/DASUFIELD/KKH-01/25-249 Dated: 03-08-2025

Tension Test Report (Page -1/2)

Date of Test 18-08-2025
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		Young's Modulus of Elasticity "E"	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	GPa		
1	**15.24 (0.6")**	**1102.0**	**1176.0**	**25600**	**251.14**	**28600**	**280.57**	**203**	**>3.50**	**-**
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only one sample for test										

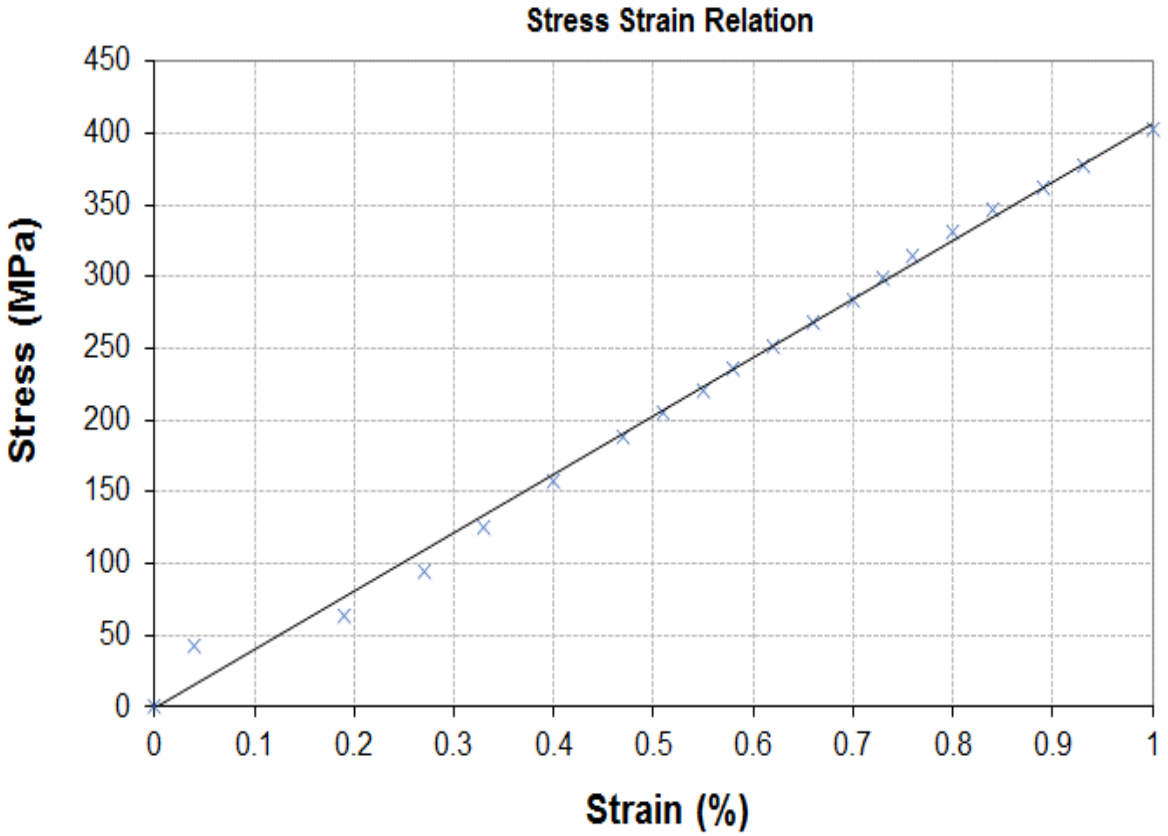
Note:
1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

Test Performed and Verified by:
To,

To,
Peng Zhiwen (Executive Project Manager)
China Civil Engineering Construction Corporation
DASU KKH-01

Reference # CED/TFL **7342** (Dr. Rizwan Riaz) Dated: 07-08-2025
Reference of the request letter # CCECC/PAK/DASUFIELD/KKH-01/25-249 Dated: 03-08-2025

Graph (Page – 2/2)



Test Performed and Verified by:

To,

M/s Unze Trading Pvt. Ltd.
Leasing Out MEPCO PC Pole Plant Lodhran

Reference # CED/TFL **7355** (Dr. Rizwan Riaz) Dated: 11-08-2025
Reference of the request letter # Unze/MEPCO/195/2025 Dated: 01-08-2025

Tension Test Report (Page -1/1)

Date of Test 13-08-2025
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)		
1	**9.53 (3"/8)**	**430.0**	**433.0**	**8300**	**81.42**	**10100**	**99.08**	**>3.50**	**xx**
2	**11.11 (7"/16)**	**582.0**	**585.0**	**10100**	**99.08**	**11700**	**114.78**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only two sample for Test									

Note:
1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

Test Performed and Verified by:

Ref: CED/TFL/08/7357 Dated: 11-08-2025

Dated of Test: 13-08-2025 (Dr. Usman Akmal)

To

Engr. Sajjad Hashmi (GM QA/QC)
Vision Developers (Pvt.) Ltd.
Park View City Lahore

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter no: Nil on dated 11.08.2025 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	9	93.1	87.3	12.4	9.07	1.67	7500	11500	3008	4612
2	9	93.1	87.2	12.6	9.47	1.57	5700	10500	2192	4038
3	9	93.1	87.4	12.5	9.03	1.73	10500	13500	4222	5428

Test Performed and Verified by:

To,

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

Reference # CED/TFL **7361** (Dr. Rizwan Riaz) Dated: 11-08-2025
Reference of the request letter # HRLE/SKG/2025/SPT/Slab4/220 Dated: 11-08-2025

Tension Test Report (Page -1/1)

Date of Test 13-08-2025
Gauge length 600 mm
Description Steel Strand Tensile Test as per ASTM A-416

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)		
1	**12.70 (1/2")**	**780.0**	**784.0**	**18200**	**178.54**	**19800**	**194.24**	**>3.50**	**xx**
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for test									

Note:
1. Modulus of Elasticity is based on nominal steel area of the steel strand vide clause 13.3 of ASTM – A416a
2. Load versus percentage strain graphs are attached

Test Performed and Verified by:

Ref: CED/TFL/08/7362 Dated: 12-08-2025

Dated of Test: 13-08-2025 (Dr. Asif Hameed)

To

Engr. Sajjad Hashmi (GM QA/QC)
Vision Developers (Pvt.) Ltd.
Park View City Multan Road, Lahore.

Subject: **TESTING OF R.C.C. PIPE**

Reference to your letter no: Nil on dated 11.08.2025 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	93.0	87.2	12.4	9.33	1.53	10500	12000	4096	4681
2	9	92.8	87.1	12.5	9.17	1.67	11500	15000	4573	5964

Test Performed and Verified by:

To,

Urwa Zaheer
HS Ideal Tower, Bahria Town, Lahore
Raft

Reference # CED/TFL **7364** (Dr. Rizwan Riaz) Dated: 12-08-2025
Reference of the request letter # Nil Dated: 12-08-2025

Tension Test Report (Page-1/1)

Date of Test 13-08-2025
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 (#)	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	**0.369**	**3**	**0.372**	**0.110**	**0.108**	**32.50**	**44.50**	**66394**	**67323**	**90909**	**92181**	**1.3**	**16.3**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 1 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Sajjad Karim (Project Engineer)
7 Canal Developers
7 Canal Residential Apartments Buildings

Reference # CED/TFL **7366** (Dr. Rizwan Riaz) Dated: 12-08-2025
Reference of the request letter # Nil Dated: 12-08-2025

Tension Test Report (Page-1/1)

Date of Test 13-08-2025
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 (#)	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	**0.376**	**3**	**0.375**	**0.110**	**0.11**	**27.50**	**36.70**	**56180**	**55947**	**74974**	**74663**	**1.4**	**17.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 1 Samples for Bend test														

Bend Test
3 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

Ref: CED/TFL/08/7367 Dated: 12-08-2025

Dated of Test: 13-08-2025 (Dr. Rizwan Riaz)

To

Deputy Director (QCD)
Water and Sanitation Agency
Faisalabad
(M/s Subhan RCC Pipe Factory Ghona Road Near Janazgah 202 R.B. Bahi Wala, Faisalabad)

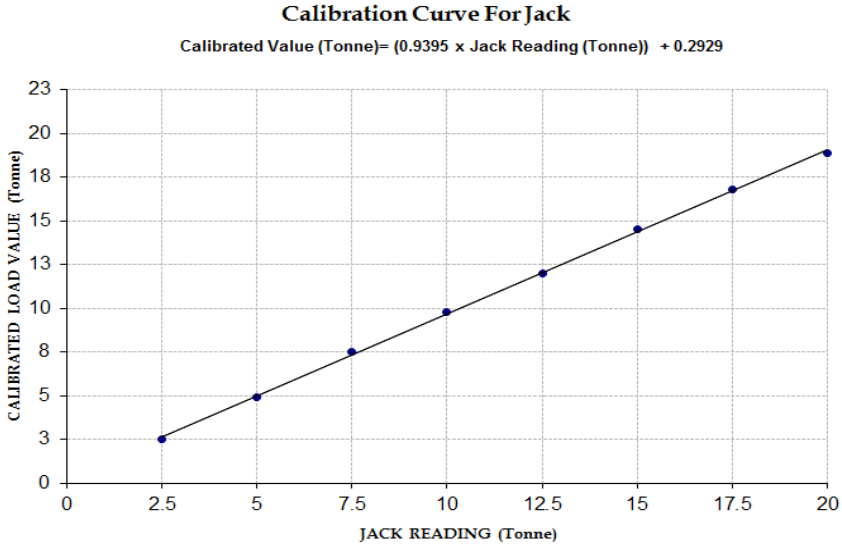
Subject: **- CALIBRATION OF HYDRAULIC JACK. (MARK: TFL/08/7367)**

Reference to your Letter No. 323/DD(QCD)/WASA/2025, Dated: 11/08/2025 on the subject cited above. One Hydraulic Jack with Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 25 (Tonne)
Calibrated Range : Zero - 20 (Tonne)

Hydraulic Jack Reading (Tonne)		**2.50**	**5.00**	**7.50**	**10.00**	**12.50**	**15.00**	**17.50**	**20.00**
Calibrated Load	**(kg)**	**2500**	**4900**	**7500**	**9800**	**12000**	**14550**	**16800**	**18850**
	(Tonne)	**2.50**	**4.90**	**7.50**	**9.80**	**12.00**	**14.55**	**16.80**	**18.85**

1 Tonne = 1000 kg



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 **7370** (Dr. Rizwan Riaz) Dated: 13-08-2025
Reference of the request letter # HRLE/SKG/2025/Hunza/32-3.539/218-A(Re-1 Dated: 13-08-2025

Tension Test Report

(Page-1/1)

Date of Test 13-08-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**4.191**	**32**	**1.252**	**1.250**	**1.232**	**34000**	**49000**	**59949**	**60849**	**86397**	**87694**	**1.9**	**23.8**	-
2	**4.195**	**32**	**1.253**	**1.250**	**1.233**	**36000**	**49600**	**63475**	**64374**	**87455**	**88693**	**1.8**	**22.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Bend Test
32mm Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by: