Ref: CED/TFL/09/7467 Dated: 05-09-2025

Dated of Test: 09-09-2025 (Dr. M. Kashif)

To

Mr. Tanvir Naqvi (Resident Engineer)
Nespak(Pvt.) Ltd.
Scheme #1 Rehabilitation/Improvement of Street P.C.C UC-118, 119, 120, 122, 123, 124, 172,173, Gulberg Zone Lahore

Subject: **TESTING OF R.C.C. PIPE (Page-1/1)**

Reference to your letter no: 4084/103/LDP/GUL(S-1)/04/98 on dated 20.08.2025 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	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	87.6	11.1	8.83	1.13	7000	9000	2872	3692

Test Performed and Verified by:

To,

Resident Engineer (PWWF Phase-II)
JER Consultancy (Pvt.) Ltd.
PWWF Establishment of Workers Welfare Complex, District Kasur (Package-J)
(SJ Steel) Witness by: Mr. Ameer Bashir Butt (Site Inspector Jers Consultants)

Reference # CED/TFL **7469-7**](Dr. Rizwan Azam) Dated: 05-09-2025
Reference of the request letter # PWWF-P-II-Sundar/J-02 Dated: 04-09-2025

Tension Test Report

Date of Test 09-09-2025
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	0.394	3	0.384	0.110	0.1159	28.00	37.50	57201	54289	76609	72709	1.4	17.5	-
2	0.391	3	0.383	0.110	0.1149	27.00	37.00	55158	52794	75587	72347	1.4	17.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 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,

Resident Engineer (PWWF Phase-II)
JER Consultancy (Pvt.) Ltd.
PWWF Establishment of Workers Welfare Complex, District Kasur (Package-L)
(SJ Steel) Witness by: Mr. Ameer Bashir Butt (Site Inspector Jers Consultants)

Reference # CED/TFL **7470** (Dr. Rizwan Azam) Dated: 05-09-2025
Reference of the request letter # PWWF-P-II-Sundar/L-02 Dated: 04-09-2025

Tension Test Report (Page-1/1)

Date of Test 09-09-2025
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	**0.378**	**3**	**0.376**	**0.110**	**0.111**	**32.20**	**45.70**	**65781**	**65088**	**93361**	**92376**	**1.1**	**13.8**	-
2	**0.385**	**3**	**0.380**	**0.110**	**0.113**	**32.20**	**46.20**	**65781**	**63942**	**94382**	**91743**	**1.0**	**12.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 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,

Engr. Abdullah (P&C Engineer)
Ittefaq Building Solution (Pvt.) Ltd.
A.M International, Raiwind Road, Lahore
(Aziz Steel)

Reference # CED/TFL **7475** (Dr. Rizwan Azam) Dated: 08-09-2025
Reference of the request letter # Nil Dated: 08-09-2025

Tension Test Report (Page-1/1)

Date of Test 09-09-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.379	3	0.376	0.110	0.1113	3500	5400	70127	69300	108196	106920	1	12.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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:

To,

Senior Manager (Planning and Development)
Alkhidmat Foundation Pakistan
Construction of Alkhidmat Saeeda Niaz Hospital Shadiwal Gujrat, Punjab

Reference # CED/TFL **7478** (Dr. Rizwan Azam) Dated: 08-09-2025
Reference of the request letter # AKFP-D-2587 Dated: 30-08-2025

Tension Test Report (Page-1/1)

Date of Test 09-09-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.371	3	0.373	0.110	0.109	3100	4900	62113	62655	98178	99035	1.2	15.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 1 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,

Mr. Khalid Bashir
Ittefaq Building Solution (Pvt.) Ltd.
Colorbug 49-M-1, Kot Lakhpat, Lahore

Reference # CED/TFL **7479** (Dr. Rizwan Azam) Dated: 08-09-2025
Reference of the request letter # IBS/CGB/ST001 Dated: 08-09-2025

Tension Test Report

Date of Test 09-09-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.385	3	0.379	0.110	0.113	3700	5000	74135	72170	100182	97527	0.9	11.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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. Allah Bakhsh Naeemi
Arco Engineering
UBL Building Islamabad

Reference # CED/TFL **7480** (Dr. Safeer Abbas) Dated: 08-09-2025
Reference of the request letter # Nil Dated: 08-09-2025

Tension Test Report (Page – 1/1)

Date of Test 09-09-2025
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight			Breaking Load	Remarks / Coil No.
	(mm)	Weight (g)	Length (cm)	(kg/m)	(kg)	
1	**10**	**366**	**98.0**	**0.37**	**5900**	**-**
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
Only one sample for test						
-	-	-			-	-

Test Performed and Verified by:

To,

Engineer Muhammad Irshad (Dy Dir Dev)
M/s DHA Gujranwala
Const of PSO Services Station at Sec E Block CZ-3

Reference # CED/TFL **7481** (Dr. Rizwan Azam) Dated: 08-09-2025
Reference of the request letter # 111/3/DD/Dev/ZaroonConstSvcs/PSO/11 Dated: 05-09-2025

Tension Test Report

Date of Test 09-09-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.366	3	0.370	0.110	0.1075	3600	4800	72131	73776	96175	98369	1	12.5	-
2	0.365	3	0.370	0.110	0.1073	3800	5000	76138	78072	100182	102726	1	12.5	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 2 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/09/7482 Dated: 08-09-2025

Dated of Test: 09-09-2025 (Dr. Safeer Abbas)

To

AJK Engineers (Pvt.) Ltd.
Anchoring & Shotcrete Works at Bholari Air Base

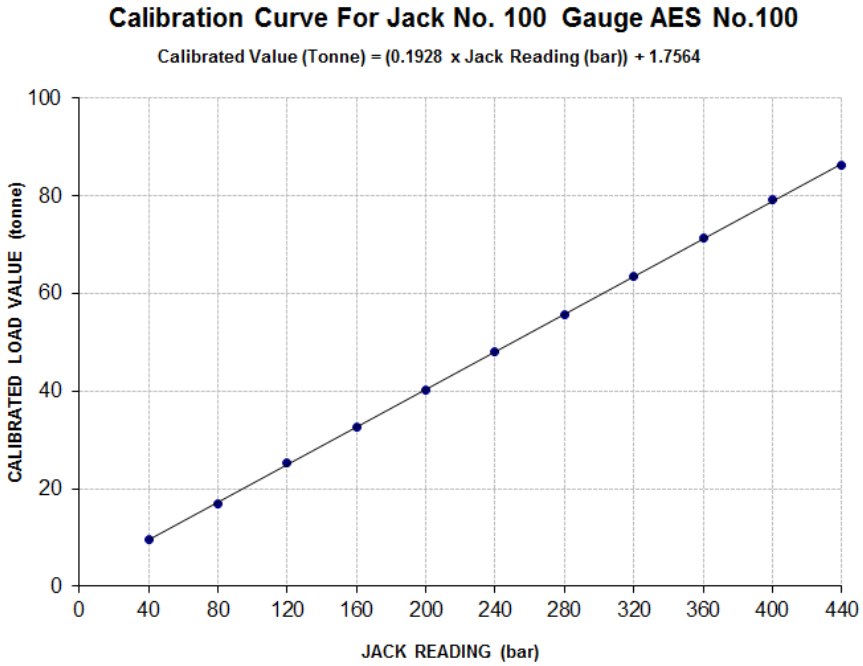
Subject: **- CALIBRATION OF HYDRAULIC JACK (MARK: TFL/09/7482)** (Page -1/1)

Reference to your Letter No. Nil, dated: 08/09/2025 on the subject cited above. One Hydraulic Jack (Jack No. 100, Gauge No. AES-100) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 440 (bar)

Hydraulic Jack Reading (bar)		40	80	120	160	200	240	280	320	360	400	440
Calibrated Load	**(kg)**	9500	16900	25100	32600	40200	48100	55600	63400	71400	79200	86200
	(tonne)	9.50	16.90	25.10	32.60	40.20	48.10	55.60	63.40	71.40	79.20	86.20
Calibrated Pressure (bar)		49	87	129	168	207	247	286	326	367	407	443

The Ram Area of Jack = 190.80 cm^2



Test Performed and Verified by:

To,

Resident Engineer (Metroplan-Asian JV)
Metroplan-Asian JV
Establishment of Nawaz Sharif Institute of Cancer Treatment & Research, Lahore Phase-1 (Package-B)
(FF Steel)

Reference # CED/TFL **7487** (Dr. Usman Akmal) Dated: 09-09-2025
Reference of the request letter # Metroplan-Asian(JV)/NSICTR/RE-B&C/B/46: Dated: 09-09-2025

Tension Test Report

Date of Test 10-09-2025
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	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.375**	**3**	**0.375**	**0.110**	**0.1102**	**3800**	**5000**	**76138**	**75974**	**100182**	**99966**	**1.1**	**13.8**	-
2	**0.376**	**3**	**0.375**	**0.110**	**0.1104**	**3800**	**5000**	**76138**	**75849**	**100182**	**99801**	**1.2**	**15.0**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 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: