Ref: <u>CED/TFL/05/6977</u> Dated: <u>16-05-2025</u>

Dated of Test: 18-06-2025 (Dr. Safeer Abbas)

To

Mr. Manzoor Ahmad Joya (Resident Engineer)

Nespak (Pvt.) Ltd.

Establishment of Labour Colony at Quaid-E-Azam Business Park, M2-Motorway, Distt. Sheikhupura (Contract Package-C)

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

Reference to your letter no: 3844/311/RE/118 on dated 05.05.2025 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	30	96.0	92.0	37.20	30.40	3.40	10530	22250	1195	2526

Witness by: Mr. Waqas Ahmed Zafar

Ms. Mahwish Rana Material Engineer DHA Multan. (M/s One Step Builders)

Reference # CED/TFL <u>7086 (Dr. Usman Akmal)</u> Reference of the request letter # Nil

 $\textbf{Tension Test Report} \qquad (Page-1/1)$

Date of Test 18-06-2025

Description GI Chain Link Fence Wire Tensile Test

Sr. No.	Description		Measured	l weight	Breaking Load	Remarks / Coil No.
	(mm)	Weight (g)	Length (cm)	Weight / Length (kg/m)	(kg)	Rema
1	GI Chain Link Fence Wire	47	81.8	0.06	440	-
2	GI Chain Link Fence Wire	45	79.2	0.06	360	-
3	GI Chain Link Fence Wire	50	89.1	0.06	320	-
-	-	-			-	-
			Only three	samples for Test		

Dated: 16-06-2025

Dated: 13-06-2025

Sub Divisional Officer
The Government Employees Security Institution
Earthfilling and Reconstruction of Boundary Wallat SSH Sargodha

Reference # CED/TFL 7089 (Dr. Usman Akmal) Dated: 17-06-2025 Reference of the request letter # SS.DC(207)25/832 Dated: 16-06-2025

Tension Test Report (Page-1/1)

Date of Test 18-06-2025 Gauge Length 8 inches

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

Sr. No.			Actual Diameter (inch)	Area	(in²)	Yield Load	Breaking Load		Stress si)	Ultimat (p	e Stress si)	Elongation	% Elongation	Remarks
	Actual W Len	Nominal	Actual D	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.380	3	0.377	0.110	0.112	3500	5000	70127	69073	100182	98675	1.2	15.0	3"/8
-	1	ı	-	-	-	1	-	-	-	_	ı	-	ı	-
-	ı	•	-	-	-	ı	-	-	-	-	ı	-	ı	-
-	ı	•	-	-	-	ı	-	-	-	-	ı	-	ı	-
-	-	•	-	-	-	•	-	-	-	-	-	-	ı	-
-												-	ı	-
				Note: (Only 1 S	Samples	for Tens	sile and 1	Samples	for Bend	test			

Engr. Muhammad Salman Saqib (Resident Engineer) ARY Laguna DHA Gujranwala ARY Laguna Infrastructure Works Phase-01 DHA Gujranwala (Mughal)

Reference # CED/TFL 7090 (Dr. Usman Akmal) Dated: 17-06-2025 Reference of the request letter # ARY(Gujr.)/IS/Eng/RE/221/25 Dated: 17-06-2025

Tension Test Report (Page-2/2)

Date of Test 18-06-2025 Gauge Length 8 inches

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

Sr. No.	Sr. No. aal Weight Per Unit Length (lb/ft)	nal Size (#)	Actual Diameter (inch)	Area	(in ²)	Yield Load	Breaking Load	Yield (p	Stress si)		e Stress si)	Elongation	% Elongation	Remarks
	Actual W Len	Nominal	Actual D	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.373	3	0.373	0.110	0.11	3200	4400	64116	64408	88160	88561	1.2	15.0	-
2	0.374	3	0.374	0.110	0.11	3300	4400	66120	66134	88160	88178	1.4	17.5	-
-	1	ı	-	1	-	1	•	ı	ı	ı	-	-	-	-
-	ı	ı	1	1	ı	ı	1	1	1	1	1	-	1	-
-	-	ı	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
				Note: (Only 2 S	Samples	for Tens	sile and 1	Samples	for Bend	test		•	

Engr. Muhammad Salman Saqib (Resident Engineer) ARY Laguna DHA Gujranwala ARY Laguna Infrastructure Works Phase-01 DHA Gujranwala (Mughal Supreme)

Reference # CED/TFL 7090 (Dr. Usman Akmal) Dated: 17-06-2025 Reference of the request letter # ARY(Gujr.)/IS/Eng/RE/192/25 Dated: 12-05-2025

Tension Test Report (Page-1/2)

Date of Test 18-06-2025 Gauge Length 8 inches

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

Sr. No.	Sr. No. al Weight Per Unit Length (lb/ft)		Actual Diameter (inch)	Area	(in²)	Yield Load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
	Actual W Len	Nominal	Actual D	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.360	3	0.367	0.110	0.106	3300	4600	66120	68674	92167	95728	1.2	15.0	-
2	0.359	3	0.367	0.110	0.106	3400	4500	68124	70998	90164	93967	1.2	15.0	-
-	ı	ı	1	-	-	1	1	1	1	1	-	-	1	-
-	ı	ı	1	-	-	1	1	1	1	1	-	-	1	-
-	-	ı	-	_	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
				Note: (Only 2 S	amples	for Tens	sile and 1	Samples	for Bend	test			

Engr. Ahmad Jawad (Director Operations) Banu Mukhtar Products (Pvt.) Ltd.

Reference # CED/TFL <u>7091 (Dr. Usman Akmal)</u>
Reference of the request letter # Nil
Dated: 17-06-2025
Dated: 17-06-2025

Tension Test Report (Page -1/2)

Date of Test 18-06-2025 Gauge length 600 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight		trength e (6.3)	stre	aking ength se (6.2)	% Elongation	Remarks / Coil No.
	(mm)	(kg/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)	%	Rema
1	9.53 (3/8")	432.0	432.0	8800	86.33	10700	104.97	>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

Engr. Ahmad Jawad (Director Operations) Banu Mukhtar Products (Pvt.) Ltd.

Reference # CED/TFL **7091** (Dr. Usman Akmal)

Reference of the request letter # Nil

Dated: 17-06-2025

Dated: 17-06-2025

Tension Test Report (Page -2/2)

Date of Test 18-06-2025 Gauge length 8 inches

Description PC Wire Tensile Test

Sr. No.	Weight		Ar (ir	rea 1 ²)	Yield load	Breaking Load		Stress si)		e Stress si)	Elongation	% Elongation	Remarks	
S	(lbs/ft)			Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.067	4	0.158	-	0.020	1680	2120	-	189040	-	238600	0.20	2.5	-
-	ı	1	-	-	-	-	1	1	-	-	-	-	-	-
-	ı	1	-	-	-	-	1	1	-	-	-	-	-	-
-	ı	1	-	-	-	-	-	ı	-	-	-	-	-	-
-	ı	ı	-	-	-	-	ı	ı	-	-	-	-	-	-
-	ı	-	-	-	-	-	-	-	-	-	-	-	-	-
					No	te: only o	ne samp	le for ten	sile test	<u> </u>	<u> </u>	<u> </u>		
							Bend T	est						

Ref: <u>CED/TFL/05/6977</u> Dated: <u>16-05-2025</u>

Dated of Test: 18-06-2025 (Dr. Safeer Abbas)

To

Mr. Manzoor Ahmad Joya (Resident Engineer)

Nespak (Pvt.) Ltd.

Establishment of Labour Colony at Quaid-E-Azam Business Park, M2-Motorway, Distt. Sheikhupura (Contract Package-C)

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

Reference to your letter no: 3844/311/RE/118 on dated 05.05.2025 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	30	96.0	92.0	37.20	30.40	3.40	10530	22250	1195	2526

Witness by: Mr. Waqas Ahmed Zafar

Ms. Mahwish Rana Material Engineer DHA Multan. (M/s One Step Builders)

Reference # CED/TFL <u>7086 (Dr. Usman Akmal)</u> Reference of the request letter # Nil

 $\textbf{Tension Test Report} \qquad (Page-1/1)$

Date of Test 18-06-2025

Description GI Chain Link Fence Wire Tensile Test

Sr. No.	Description		Measured	l weight	Breaking Load	Remarks / Coil No.
	(mm)	Weight (g)	Length (cm)	Weight / Length (kg/m)	(kg)	Rema
1	GI Chain Link Fence Wire	47	81.8	0.06	440	-
2	GI Chain Link Fence Wire	45	79.2	0.06	360	-
3	GI Chain Link Fence Wire	50	89.1	0.06	320	-
-	-	-			-	-
			Only three	samples for Test		

Dated: 16-06-2025

Dated: 13-06-2025

Sub Divisional Officer
The Government Employees Security Institution
Earthfilling and Reconstruction of Boundary Wallat SSH Sargodha

Reference # CED/TFL 7089 (Dr. Usman Akmal) Dated: 17-06-2025 Reference of the request letter # SS.DC(207)25/832 Dated: 16-06-2025

Tension Test Report (Page-1/1)

Date of Test 18-06-2025 Gauge Length 8 inches

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

Sr. No.			Actual Diameter (inch)	Area	(in²)	Yield Load	Breaking Load		Stress si)	Ultimat (p	e Stress si)	Elongation	% Elongation	Remarks
	Actual W Len	Nominal	Actual D	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.380	3	0.377	0.110	0.112	3500	5000	70127	69073	100182	98675	1.2	15.0	3"/8
-	1	ı	-	-	-	1	-	-	-	_	ı	-	ı	-
-	ı	•	-	-	-	ı	-	-	-	-	ı	-	ı	-
-	ı	•	-	-	-	ı	-	-	-	-	ı	-	ı	-
-	-	•	-	-	-	•	-	-	-	-	-	-	ı	-
-												-	ı	-
				Note: (Only 1 S	Samples	for Tens	sile and 1	Samples	for Bend	test			

Engr. Muhammad Salman Saqib (Resident Engineer) ARY Laguna DHA Gujranwala ARY Laguna Infrastructure Works Phase-01 DHA Gujranwala (Mughal)

Reference # CED/TFL 7090 (Dr. Usman Akmal) Dated: 17-06-2025 Reference of the request letter # ARY(Gujr.)/IS/Eng/RE/221/25 Dated: 17-06-2025

Tension Test Report (Page-2/2)

Date of Test 18-06-2025 Gauge Length 8 inches

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

Sr. No.	Sr. No. aal Weight Per Unit Length (lb/ft)	nal Size (#)	Actual Diameter (inch)	Area	(in ²)	Yield Load	Breaking Load	Yield (p	Stress si)		e Stress si)	Elongation	% Elongation	Remarks
	Actual W Len	Nominal	Actual D	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.373	3	0.373	0.110	0.11	3200	4400	64116	64408	88160	88561	1.2	15.0	-
2	0.374	3	0.374	0.110	0.11	3300	4400	66120	66134	88160	88178	1.4	17.5	-
-	1	ı	-	1	-	1	•	ı	ı	ı	-	-	-	-
-	ı	ı	1	1	ı	ı	1	1	1	1	1	-	1	-
-	-	ı	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
				Note: (Only 2 S	Samples	for Tens	sile and 1	Samples	for Bend	test		•	

Engr. Muhammad Salman Saqib (Resident Engineer) ARY Laguna DHA Gujranwala ARY Laguna Infrastructure Works Phase-01 DHA Gujranwala (Mughal Supreme)

Reference # CED/TFL 7090 (Dr. Usman Akmal) Dated: 17-06-2025 Reference of the request letter # ARY(Gujr.)/IS/Eng/RE/192/25 Dated: 12-05-2025

Tension Test Report (Page-1/2)

Date of Test 18-06-2025 Gauge Length 8 inches

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

Sr. No.	Sr. No. al Weight Per Unit Length (lb/ft)		Actual Diameter (inch)	Area	(in²)	Yield Load	Breaking Load		Stress si)		te Stress si)	Elongation	% Elongation	Remarks
	Actual W Len	Nominal	Actual D	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.360	3	0.367	0.110	0.106	3300	4600	66120	68674	92167	95728	1.2	15.0	-
2	0.359	3	0.367	0.110	0.106	3400	4500	68124	70998	90164	93967	1.2	15.0	-
-	ı	ı	1	-	-	1	1	1	1	1	-	-	1	-
-	ı	ı	1	-	-	1	1	1	1	1	-	-	1	-
-	-	ı	-	_	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
				Note: (Only 2 S	amples	for Tens	sile and 1	Samples	for Bend	test			

Engr. Ahmad Jawad (Director Operations) Banu Mukhtar Products (Pvt.) Ltd.

Reference # CED/TFL <u>7091 (Dr. Usman Akmal)</u>
Reference of the request letter # Nil
Dated: 17-06-2025
Dated: 17-06-2025

Tension Test Report (Page -1/2)

Date of Test 18-06-2025 Gauge length 600 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		stre	aking ength se (6.2)	% Elongation	Remarks / Coil No.	
	(mm)	(kg/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)	%	Rema	
1	9.53 (3/8")	432.0	432.0	8800	86.33	10700	104.97	>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

Engr. Ahmad Jawad (Director Operations) Banu Mukhtar Products (Pvt.) Ltd.

Reference # CED/TFL **7091** (Dr. Usman Akmal)

Reference of the request letter # Nil

Dated: 17-06-2025

Dated: 17-06-2025

Tension Test Report (Page -2/2)

Date of Test 18-06-2025 Gauge length 8 inches

Description PC Wire Tensile Test

Sr. No.	Weight	Diameter/ Size (inch)		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (mm)	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.067	4	0.158	-	0.020	1680	2120	-	189040	-	238600	0.20	2.5	-
-	ı	1	-	-	-	-	-	1	-	-	-	-	-	-
-	ı	1	-	1	-	-	-	1	-	-	-	-	-	-
-	ı	ı	-	-	-	-	-	ı	-	-	-	-	-	-
-	ı	ı	-	-	-	-	-	ı	-	-	-	-	-	-
-	ı	-	-	-	-	-	-	-	-	-	-	-	-	-
					No	te: only o	ne samp	le for ten	sile test	<u> </u>	<u> </u>	<u> </u>		
							Bend T	est						