

To,

Engr. Tanveer Afzal (General Manager Blue Bricks)
Blue Town
Blue Town Sapphire, Lahore

Reference # CED/TFL 7660 (Dr. M Kashif)
Reference of the request letter # BTS/Lab/001131

Dated: 20-10-2025

Dated: 20-10-2025

Tension Test Report (Page-1/1)

Date of Test 22-10-2025

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 (#)	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	0.374	3	0.374	0.110	0.1099	3100	4600	62113	62162	92167	92241	1.6	20.0	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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,

Resident Engineer
Dynamic Engineering Consultant
Lahore Garrison Sports Complex

Reference # CED/TFL **7663** (Dr. M. Kashif)
Reference of the request letter # CANTT/UET/MPH/T-10

Dated: 20-10-2025
Dated: 07-10-2025

Tension Test Report (Page – 1/1)

Date of Test 22-10-2025
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Weight	Length	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(mm)	(cm)	(kg/m)	(kg)	
1	12	518	95.1	0.54	6900	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
Only one sample for Test						
-	-	-	-	-	-	-

Test Performed and Verified by:

To,

Engr. Riaz Ahmad (The Engineer's Rep/RE, A&D)
Metroplan-Asian JV
Establishment of Nawaz Sharif Institute of Cancer Treatment and Research, Lahore
(Phase-1, Package A&D) (FF Steel)

Reference # CED/TFL 7665 (Dr. M Kashif) Dated: 20-10-2025
Reference of the request letter # Metroplan-Asian(JV),NSICTR-RE(A&D)/328 Dated: 13-10-2025

Tension Test Report (Page-1/1)

Date of Test 22-10-2025
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 (#)	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	0.393	3	0.383	0.110	0.1154	3800	5100	76138	72565	102185	97390	1.2	15.0	-
2	0.378	3	0.376	0.110	0.111	3700	5000	74135	73473	100182	99288	1.3	16.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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,
 Etimaad Propert Network
 Rise Mall & Residencia
 DHA Campus Lahore Phase-6

Reference # CED/TFL 7668 (Dr. M Kashif)
 Reference of the request letter # TCS/D&C/HO/006/2025

Dated: 20-10-2025
 Dated: 20-10-2025

Tension Test Report (Page-1/1)

Date of Test 22-10-2025
 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 (#)	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	0.392	3	0.383	0.110	0.1153	3100	4300	62113	59268	86156	82211	1.6	20.0	-
2	0.389	3	0.382	0.110	0.1144	3000	4300	60109	57781	86156	82819	1.5	18.8	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Altaf Hussain (Resident Engineer Lahore Division)
Barqaab Consulting Services
Rehabilitation / Addition of Civic Enforcement Cetres in Punjab, One Tehsil Chunian District Kasur
(Farooq Steel)

Reference # CED/TFL 7669 (Dr. M Kashif) Dated: 21-10-2025
Reference of the request letter # PM(BQB)-PERA-ES Chunian/RELhr/111-15 Dated: 08-10-2025

Tension Test Report (Page-1/1)

Date of Test 22-10-2025
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 (#)	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	0.391	3	0.382	0.110	0.1149	3400	5100	68124	65237	102185	97855	1.5	18.8	-
2	0.383	3	0.379	0.110	0.1126	3300	5000	66120	64616	100182	97904	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,

Mr. Muhammad Azmat (Resident Engineer)
Nespak (Pvt.) Ltd. - TurkPak JV
Re-Construction of Lady Wellington Hospital, Lahore
(AF Steel)

Reference # CED/TFL 7670 (Dr. M Kashif)
Reference of the request letter # 4729/13/MA/04/361

Dated: 21-10-2025
Dated: 18-10-2025

Tension Test Report (Page-1/1)

Date of Test 22-10-2025
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 (#)	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	0.373	3	0.374	0.110	0.1097	3800	5100	76138	76325	102185	102436	1	12.5	-
2	0.379	3	0.377	0.110	0.1115	4300	5200	86156	85032	104189	102830	0.9	11.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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,

Mr. Saif Ullah (Procurement Department)
M/s Linker
Construction of 131-A, Model Town, Lahore
(FF Steel)

Reference # CED/TFL 7671 (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 21-10-2025
Dated: 21-10-2025

Tension Test Report (Page-1/1)

Date of Test 22-10-2025
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 (#)	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	0.374	3	0.374	0.110	0.1099	3900	4900	78142	78228	98178	98286	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,

Mr. Ghulam Rasool Domki (Resident Engineer)

Nespak (Pvt.) Ltd.

Scheme # 1760: Rehabilitation of Gujrat Sargodha Road KM 27.90 to 122.20 Dual Carriage Way)

Length 94.30 KMS (Mughal Steel)

Reference # CED/TFL 7672 (Dr. M Kashif)

Dated: 21-10-2025

Reference of the request letter # 4834/RRP/MBD/GRD/022

Dated: 01-10-2025

Tension Test Report (Page-1/1)

Date of Test 22-10-2025

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 (#)	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	0.388	3	0.381	0.110	0.1139	3100	4600	62113	59962	92167	88977	1.6	20.0	-
2	0.393	3	0.384	0.110	0.1156	3100	4600	62113	59128	92167	87739	1.7	21.3	-
3	4.189	10	1.252	1.270	1.2308	31000	46400	53798	55512	80524	83090	1.9	23.8	-
4	4.156	10	1.247	1.270	1.2214	30800	46200	53451	55580	80177	83370	2.1	26.3	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 4 Samples for Tensile and 2 Samples for Bend test

Bend Test

3 Bar Bend Test Through 180 Degree is Satisfactory

10 Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Kaleem Ullah (Managing Director)
W&K Engineering Works (Pvt.) Ltd.

Reference # CED/TFL **7675** (Dr. M. Kashif)
Reference of the request letter # Nil

Dated: 21-10-2025
Dated: 21-10-2025

Tension Test Report (Page – 1/1)

Date of Test 22-10-2025
Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Weight	Length	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(mm)	(cm)	(kg/m)	(kg)	
1	8	550	233.0	2.36	3400	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
Only one sample for Test						
-	-	-	-	-	-	-

Test Performed and Verified by:

To,

Mr. Ishtiaq Ahmad (Deputy Manager Projects)
Diamond Tyres
3KM Manga Raiwind Road Manga Mandi Lahore

Reference # CED/TFL 7677 (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 22-10-2025
Dated: 22-10-2025

Tension Test Report (Page-1/1)

Date of Test 22-10-2025
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 (#)	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	0.373	3	0.373	0.110	0.1095	3500	4800	70127	70462	96175	96633	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. Asif Shafiq
 Shafiq Gear Industry

Reference # CED/TFL **7678** (Dr. M. Kashif)
 Reference of the request letter # Nil

Dated: 22-10-2025
 Dated: 22-10-2025

Tension Test Report (Page -1/1)
 Date of Test 22-10-2025
 Gauge length 8 inches
 Description Plain Steel Bar (4340 Material) Tensile Test

Sr. No.	Weight	Diameter/ Size (mm)		Area	Yield load	Breaking Load	Yield Stress (psi)	Ultimate Stress	Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (mm)	Actual	(in ²)	(kg)	(kg)	(psi)	(psi)	(inch)		
1	3.711	30	29.93	1.091	48600	55600	98210	112400	0.80	10.0	
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
Note: Only one sample for tensile test											
Bend Test											

Test Performed and Verified by: