

To,

Resident Engineer
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Construction of New Grain Market at District Pakpattan
(Ravi Steel)

Reference # CED/TFL 7648 (Dr. M Kashif)
Reference of the request letter # ECSP/RE/PK/145

Dated: 16-10-2025

Dated: 27-08-2025

Tension Test Report (Page-1/1)

Date of Test 17-10-2025

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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.363	3	0.368	0.110	0.1065	27.70	40.70	56588	58434	83146	85857	1.0	12.5	-
2	0.371	3	0.373	0.110	0.1091	29.20	42.70	59653	60131	87232	87932	1.1	13.8	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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,

Mr. Javed Aslam (Material Engineer)
Banu Mukhtar Contracting (Pvt.) Ltd.
Senate Hill University, Canal Bank Road Jati Umrah Lahore
(Mughal Steel)

Reference # CED/TFL 7649 (Dr. M Kashif)
Reference of the request letter # SHU/BMC/03/2025

Dated: 16-10-2025
Dated: 16-10-2025

Tension Test Report (Page-1/1)

Date of Test 17-10-2025
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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.366	3	0.370	0.110	0.1076	36.50	45.70	74566	76224	93361	95437	1.2	15.0	-
2	0.365	3	0.370	0.110	0.1073	35.50	44.70	72523	74360	91318	93631	1.1	13.8	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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. Muhammad Kashif Saeed (Planning and Cost Engineer)
Muhammad Ramzan Construction
Construction of Commercial Building for Mrs Sana Imran at DHA Phase-8C Lahore

Reference # CED/TFL 7651 (Dr. M Kashif)
Reference of the request letter # Nil

Dated: 16-10-2025
Dated: 16-10-2025

Tension Test Report (Page-1/1)

Date of Test 17-10-2025
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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.373	3	0.374	0.110	0.1096	37.70	58.50	77017	77307	119510	119959	1.0	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,

Engr. Habib Ullah (Resident Engineer)

Nespak (Pvt.) Ltd.

Construction of Flyover at The Junction of G.T Road & Islamabad Expressway Islamabad.

Reference # CED/TFL **7653** (Dr. M. Kashif)

Dated: 16-10-2025

Reference of the request letter # 4982/103/HU/025

Dated: 09-10-2025

Tension Test Report (Page -1/3)

Date of Test 17-10-2025

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/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	780.0	797.0	18600	182.47	20200	198.16	204	>3.50	-
2	12.70 (1/2")	780.0	797.0	18400	180.50	20100	197.18	197	>3.50	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

Only two samples 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,

Engr. Habib Ullah (Resident Engineer)

Nespak (Pvt.) Ltd.

Construction of Flyover at The Junction of G.T Road & Islamabad Expressway Islamabad.

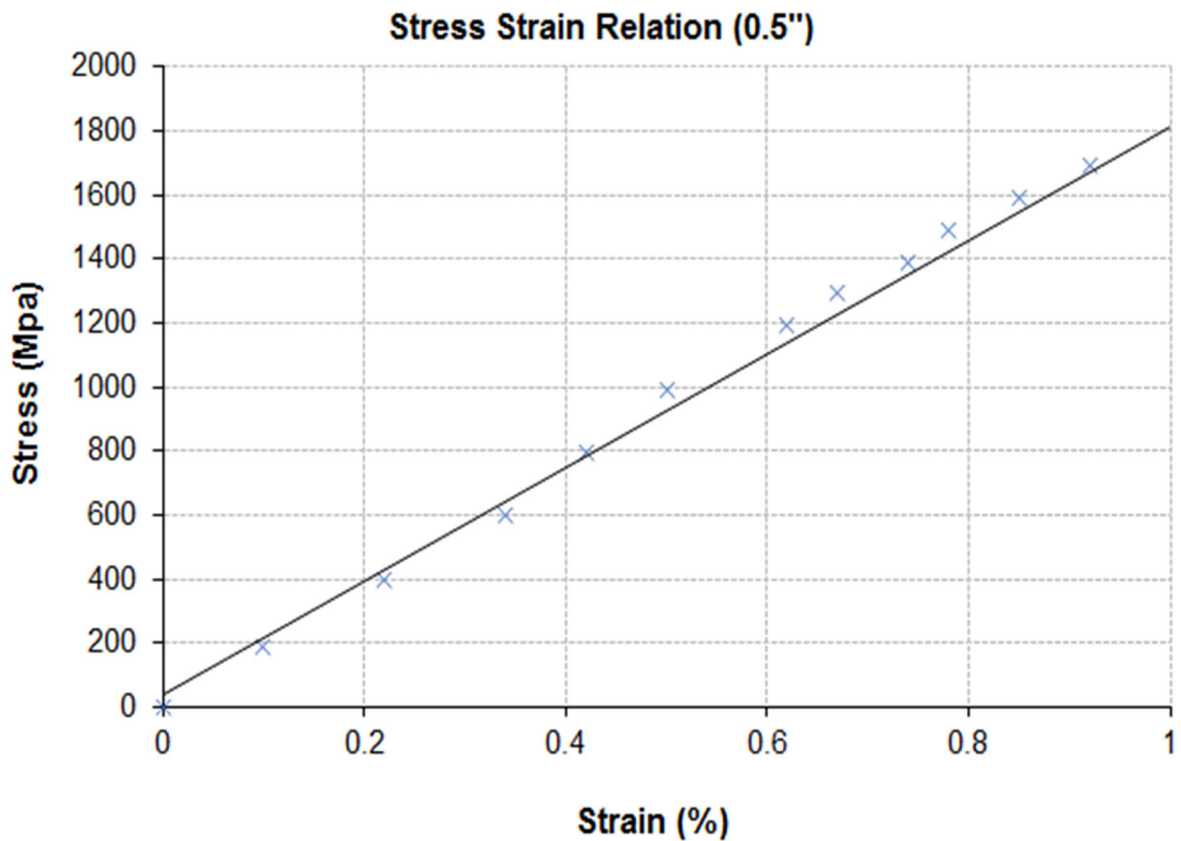
Reference # CED/TFL **7653** (Dr. M. Kashif)

Dated: 16-10-2025

Reference of the request letter # 4982/103/HU/025

Dated: 09-10-2025

Graph (Page – 2/3)



Test Performed and Verified by:

To,

Engr. Habib Ullah (Resident Engineer)

Nespak (Pvt.) Ltd.

Construction of Flyover at The Junction of G.T Road & Islamabad Expressway Islamabad.

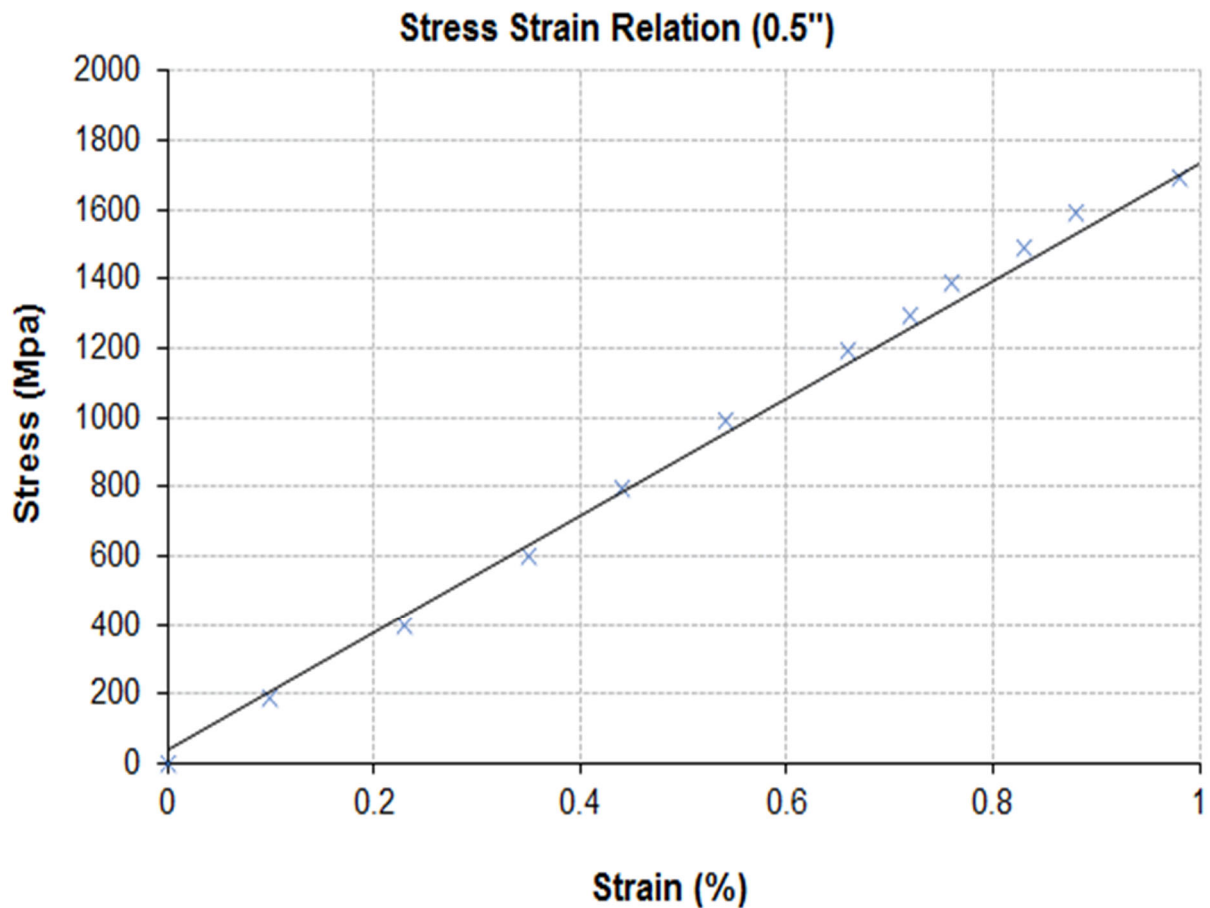
Reference # CED/TFL **7653** (Dr. M. Kashif)

Dated: 16-10-2025

Reference of the request letter # 4982/103/HU/025

Dated: 09-10-2025

Graph (Page – 3/3)



Test Performed and Verified by:

To,

Resident Engineer
Nespak (Pvt.) Ltd.
Resolving Traffic Congestion Issues at Shaheen Chowk (Intersection of 9th Avenue) with
Khayaban-e-Iqbal, Islamabad

Reference # CED/TFL **7654** (Dr. M. Kashif)
Reference of the request letter # 4880/SCU/09/25/06

Dated: 16-10-2025
Dated: 10-10-2025

Tension Test Report (Page -1/3)

Date of Test 17-10-2025
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/1000m)	(kg/1000m)	(kg)	(kN)	(kg)	(kN)	GPa		
1	12.70 (1/2")	780.0	791.0	17600	172.66	20000	196.20	195	>3.50	-
2	12.70 (1/2")	780.0	791.0	18600	182.47	20000	196.20	200	>3.50	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Only two samples 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,

Resident Engineer

Nespak (Pvt.) Ltd.

Resolving Traffic Congestion Issues at Shaheen Chowk (Intersection of 9th Avenue) with
Khayaban-e-Iqbal, Islamabad

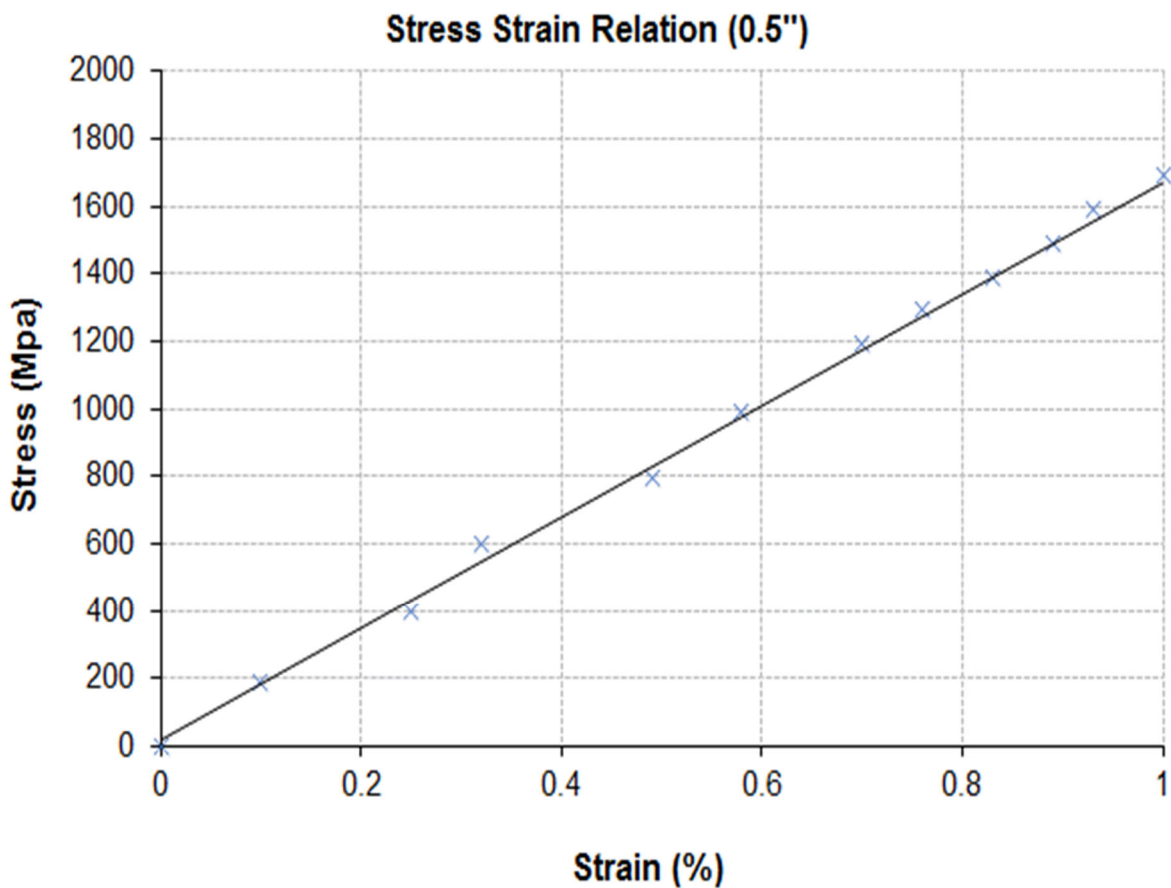
Reference # CED/TFL **7654** (Dr. M. Kashif)

Dated: 16-10-2025

Reference of the request letter # 4880/SCU/09/25/06

Dated: 10-10-2025

Graph (Page – 2/3)



Test Performed and Verified by:

To,

Resident Engineer

Nespak (Pvt.) Ltd.

Resolving Traffic Congestion Issues at Shaheen Chowk (Intersection of 9th Avenue) with
Khayaban-e-Iqbal, Islamabad

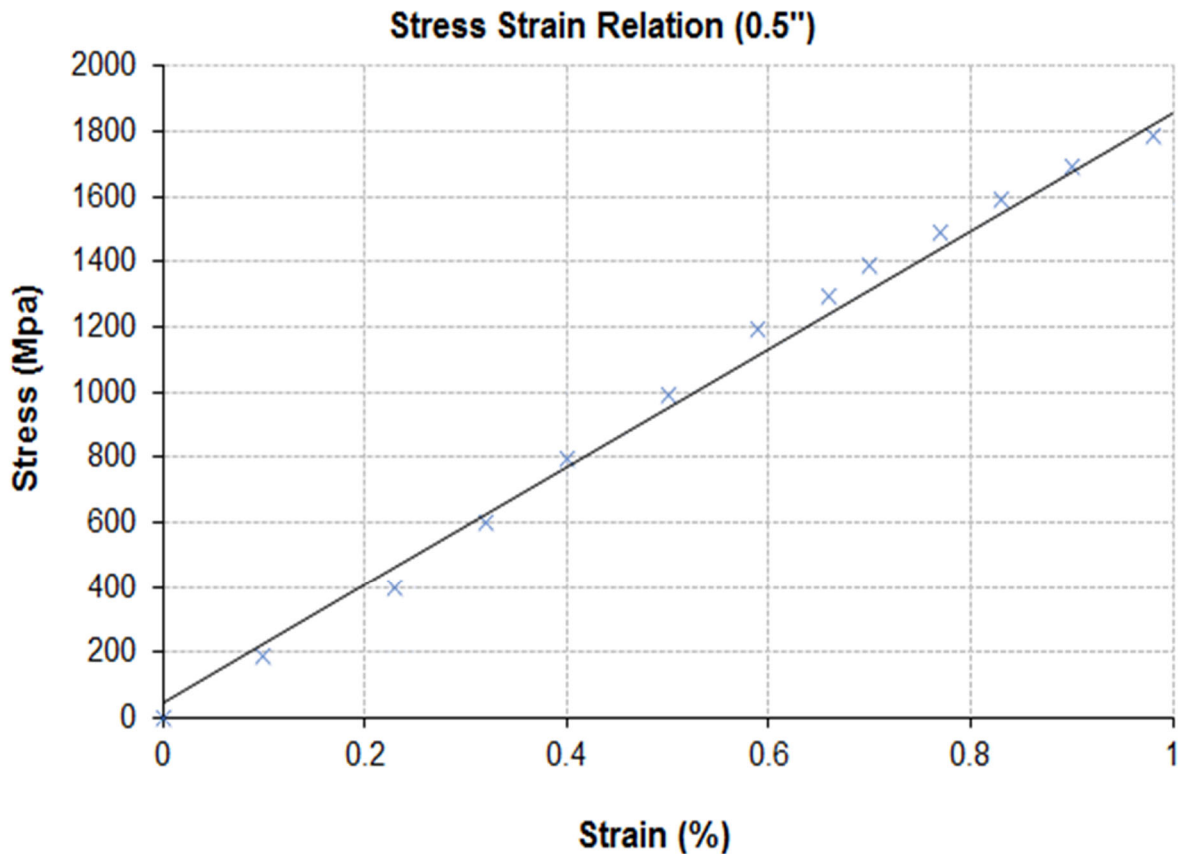
Reference # CED/TFL **7654** (Dr. M. Kashif)

Dated: 16-10-2025

Reference of the request letter # 4880/SCU/09/25/06

Dated: 10-10-2025

Graph (Page – 3/3)



Test Performed and Verified by:

To,
 Mr. Zaheer-uz-Zaman (Site Incharge)
 Naturals Farms
 (Mughal Steel)

Reference # CED/TFL 7656 (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 16-10-2025
 Dated: 16-10-2025

Tension Test Report (Page-1/1)

Date of Test 17-10-2025
 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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.369	3	0.372	0.110	0.1085	37.20	46.00	75996	77070	93973	95301	1.0	12.5	-
2	0.369	3	0.372	0.110	0.1085	38.00	46.00	77630	78672	93973	95235	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,
 Mr. Zaheer-uz-Zaman (Site Incharge)
 Naturals Farms
 (Mughal Steel)

Reference # CED/TFL 7656 (Dr. M Kashif)
 Reference of the request letter # Nil

Dated: 16-10-2025
 Dated: 16-10-2025

Tension Test Report (Page-1/1)

Date of Test 17-10-2025
 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 (kN)	Breaking Load (kN)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
				Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.369	3	0.372	0.110	0.1085	37.20	46.00	75996	77070	93973	95301	1.0	12.5	-
2	0.369	3	0.372	0.110	0.1085	38.00	46.00	77630	78672	93973	95235	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: