To,

Engr. Bilawal Mahmood (A/Resident Engineer ECSP PSCS)
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Engineering Procurement & Construction and Operatio & Maintenance of Ninteen (19) Districts (Smart Safe Cities Phase-II) Project for 19 District Phase-II (Kot Addu)

Reference # CED/TFL **7232** (Dr. Rizwan Riaz) Dated: 17-07-2025
Reference of the request letter # ECSP/PSCS/ARE/18 Dated: 11-05-2025

Tension Test Report (Page-1/2)

Date of Test 21-07-2025
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	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.364**	**10**	**0.369**	**0.120**	**0.107**	**36.70**	**48.00**	**68727**	**77067**	**89888**	**100796**	**1.3**	**16.3**	**Sheikoo Steel**
2	**0.364**	**10**	**0.369**	**0.120**	**0.107**	**36.70**	**48.00**	**68727**	**77019**	**89888**	**100734**	**1.2**	**15.0**	**Sheikoo Steel**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Bend Test
10mm Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Engr. Bilawal Mahmood (A/Resident Engineer ECSP PSCS)
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Engineering Procurement & Construction and Operatio & Maintenance of Ninteen (19) Districts (Smart Safe Cities Phase-II) Project for 19 District Phase-II (Taunsa)

Reference # CED/TFL **7232** (Dr. Rizwan Riaz) Dated: 17-07-2025
Reference of the request letter # ECSP/PSCS/ARE/011 Dated: 02-06-2025

Tension Test Report

Date of Test 21-07-2025
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	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.365**	**10**	**0.369**	**0.120**	**0.107**	**37.20**	**48.00**	**69663**	**78029**	**89888**	**100682**	**1.1**	**13.8**	**Sheikoo Steel**
2	**0.366**	**10**	**0.370**	**0.120**	**0.107**	**37.00**	**48.20**	**69288**	**77416**	**90262**	**100850**	**1.2**	**15.0**	**Sheikoo Steel**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Bend Test
10mm Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

To,

Mr. Muhammad Ibrar (Project Manager)
Innovative ® Construction Company
Kingdom Arena Ruda Lahore

Reference # CED/TFL **7234** (Dr. Rizwan Riaz) Dated: 18-07-2025
Reference of the request letter # Ruda/10 Dated: 18-07-2025

Tension Test Report (Page-1/1)

Date of Test 21-07-2025
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	**0.362**	**3**	**0.368**	**0.110**	**0.106**	**37.00**	**45.00**	**75587**	**78192**	**91931**	**95099**	**1.0**	**12.5**	-
2	**0.368**	**3**	**0.371**	**0.110**	**0.108**	**37.20**	**45.50**	**75996**	**77303**	**92952**	**94551**	**1.2**	**15.0**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Note: Only 2 Samples for Tensile and 0 Samples for Bend test														

Bend Test

Test Performed and Verified by:

To,
Mr. Muhammad Nadeem Akhtar (Resident Engineer)
Nespak (Pvt.) Ltd.
Reconstruction / Rehabilitation of G.T. Road From Quaid-E-Azam Interchange (Lahore Ring Road) to Wahga Border in District Lahore (Part-A) (Jamal Poles)

Reference # CED/TFL **7235** (Dr. Rizwan Riaz) Dated: 18-07-2025
Reference of the request letter # Nespak/GT-W/MNA/050 Dated: 15-07-2025

Tension Test Report

Date of Test 18-07-2025
Gauge Length 2 inches
Description Steel Strips Tensile Test Report

Sr. No.	Designation	Size of Strip	X Section Area	Yield Load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(Inch)	(mm)	(mm^2)	(kg)	(kg)	(MPa)	(MPa)	(inch)		
1	MS Base Plate	20.00 x 31.40	628.00	20100	27730	314.0	433.2	1.1	55.0	-
2	MS Base Plate	20.00 x 31.50	630.00	19880	27850	309.6	433.7	1.1	55.0	-
3	MS Elec. Pole Shee	4.90 x 31.20	152.88	5520	7650	354.2	490.9	1	50.0	-
4	MS Elec. Pole Shee	4.80 x 30.80	147.84	5610	7540	372.3	500.3	0.9	45.0	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
Note: Only 4 Samples for Tensile and 0 Samples for Bend test										

Bend Test

Test Performed and Verified by:

To,

Mr. Muhammad Nadeem Akhtar (Resident Engineer)
Nespak (Pvt.) Ltd.
Reconstruction / Rehabilitation of G.T. Road From Quaid-E-Azam Interchange (Lahore Ring Road) to Wahga Border in District Lahore (Part-A)

Reference # CED/TFL **7235** (Dr. Rizwan Riaz) Dated: 18-07-2025
Reference of the request letter # Nespak/GT-W/MNA/048 Dated: 15-07-2025

Tension Test Report

Date of Test 21-07-2025
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	**0.412**	**3**	**0.393**	**0.110**	**0.121**	**36.00**	**49.20**	**73544**	**66790**	**100511**	**91280**	**1.3**	**16.3**	**Ravi Steel**
2	**0.404**	**3**	**0.389**	**0.110**	**0.119**	**35.20**	**48.20**	**71910**	**66588**	**98468**	**91180**	**1.3**	**16.3**	**Ravi Steel**
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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,

Ms. Mahwish Rana (Material Engineer DHA Lab)
M/s DHA Multan.
M/s Malik Akhtar Pipe Factory

Reference # CED/TFL **7236** (Dr. Rizwan Riaz) Dated: 18-07-2025
Reference of the request letter # 701/13/Lab/65/DHA Dated: 17-07-2025

Tension Test Report (Page -1/1)

Date of Test 21-07-2025
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test

Sr. No.	Weight	Diameter/ Size (mm)		Area	Yield load	Breaking Load	Yield Stress	Ultimate Stress	Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (mm)	Actual	(in^2)	(kg)	(kg)	(psi)	(psi)	(inch)		
1	0.162	6	6.25	0.048	1320	1680	61130	77800	1.40	17.5	-
2	0.155	6	6.11	0.045	1990	2450	96470	118800	1.00	12.5	-
3	0.074	4.75	4.23	0.022	920	1020	92940	103100	1.20	15.0	-
4	0.073	4.75	4.21	0.022	940	1020	95910	104100	0.90	11.3	-
-	-	-	-	-	-	-		- -	-	-	-
-	-	-	-	-	-	-		- -	-	-	-
Note: only four samples for tensile and two samples for bend test											
Bend Test											
6mm Bar Bend Test Through 180º is Satisfactory											
4.75mm Bar Bend Test Through 180º is Satisfactory											

Test Performed and Verified by:

To,

Major Muhammad Haris
Garrison Engineer (A)-II Gwa
CA No.CEA-CZ-58/2025-Const of 15 x Watch Towers at 177 Br Bn Engr Qbd:

Reference # CED/TFL **7237** (Dr. Rizwan Riaz) Dated: 18-07-2025
Reference of the request letter # 6000-1148/17/E-6 Dated: 11-07-2025

Tension Test Report (Page-1/1)

Date of Test 21-07-2025
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	0.375	3	0.375	0.110	0.11	36.70	52.70	74974	74787	107661	107392	0.9	11.3	3/8"
2	0.372	3	0.373	0.110	0.109	37.00	53.00	75587	76049	108274	108935	0.8	10.0	3/8"
3	0.368	3	0.371	0.110	0.108	35.7	51.7	72932	74150	105618	107382	1.0	12.5	3/8"
4	0.378	3	0.376	0.110	0.111	36.7	53	74974	74238	108274	107211	1.1	13.8	3/8"
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 4 Samples for Tensile and 0 Samples for Bend test

Bend Test

Test Performed and Verified by:

To,

Mr. Muhammad Azmat (Resident Engineer Nespak-Turpak JV Site Office)
Nespak (Pvt.) Ltd. JV Turkpak International (Pvt.) Ltd.
Reconstruction of Lady Wellingdon Hospital, Lahore
(AF Steel)

Reference # CED/TFL **7238** (Dr. Rizwan Riaz) Dated: 18-07-2025
Reference of the request letter # 4729/13/MA/04/311 Dated: 17-06-2025

Tension Test Report (Page-1/1)

Date of Test 21-07-2025
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	**0.373**	**3**	**0.374**	**0.110**	**0.11**	**35.20**	**50.00**	**71910**	**72157**	**102145**	**102495**	**1.3**	**16.3**	-
2	**0.372**	**3**	**0.373**	**0.110**	**0.109**	**34.70**	**49.70**	**70889**	**71315**	**101532**	**102143**	**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,

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

Reference # CED/TFL **7240** (Dr. Rizwan Riaz) Dated: 18-07-2025
Reference of the request letter # HRLE/SKG/2025/Hunza/10-20.470/213 Dated: 18-07-2025

Tension Test Report

(Page-1/1)

Date of Test 21-07-2025
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	(kN)	(kN)	Nominal	Actual	Nominal	Actual	(inch)		
1	**0.413**	**10**	**0.393**	**0.120**	**0.121**	**39.20**	**50.20**	**73408**	**72639**	**94007**	**93023**	**1.6**	**20.0**	-
2	**0.408**	**10**	**0.391**	**0.120**	**0.12**	**38.00**	**49.50**	**71161**	**71173**	**92697**	**92712**	**1.6**	**20.0**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Bend Test
10mm Bar Bend Test Through 180 Degree is Satisfactory

Test Performed and Verified by:

Ref: CED/TFL/07/7241 Dated: 18-07-2025

Dated of Test: 21-07-2025 (Dr. Rizwan Riaz)

To

Mr. Riaz Ahmed (General Manager)
M/s National Technocommercial Services (Private) Limited
Lahore

Subject: **- BREAKING LOAD TEST OF LUG No. MK-59 (NTS with Harding)**
(Page # 1/2)

Reference to your Letter No. NTS/DC/Lug Sample/59/2/DC/25, dated: 18/07/2025, on the subject cited above. Two Lugs with assembly as received by us have been tested. The results are tabulated as shown below:

Sr. No.	Diameter	Length	Breaking Load	Remarks
	(mm)	(mm)	(kg)	
1	44	66.50	13700	Collar Failure
2	44	66.50	13500	Collar Failure
-	-	-	-	-
Only two samples for test				

Test Performed and Verified by:

Ref: CED/TFL/07/7241 Dated: 18-07-2025

Dated of Test: 21-07-2025 (Dr. Rizwan Riaz)

To

Mr. Riaz Ahmed (General Manager)
M/s National Technocommercial Services (Private) Limited
Lahore

Subject: **- BREAKING LOAD TEST OF LUG) No. MK-2 No. 43A (ATR) (NTS with Harding)**
(Page # 2/2)

Reference to your Letter No. NTS/DC-Lug 43A/DC/25-3, dated: 18/07/2025, on the subject cited above. One Lug with assembly as received by us has been tested. The results are tabulated as shown below:

Sr. No.	Nominal Diameter	Length	Breaking Load	Remarks
	(mm)	(mm)	(kg)	
1	**44**	**59.00**	**13800**	**Collar Failure**
-	-	-	-	-
-	-	-	-	-
Only one sample for test				

Test Performed and Verified by: