To,

Construction Manager
Ittefaq Building Solutions (Pvt.) Ltd.
Residence of Mr. Abdullah Imtiaz / Mr. Noor-ul-Amin, House No. 605/613, Block Z, Phase3, DHA Lahore

Reference # CED/TFL **7173** (Dr. Rizwan Riaz) Dated: 03-07-2025
Reference of the request letter # Nil Dated: 03-07-2025

Tension Test Report (Page-1/1)

Date of Test 04-07-2025
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	**0.378**	**3**	**0.376**	**0.110**	**0.111**	**36.50**	**49.00**	**74566**	**73825**	**100102**	**99107**	**1.1**	**13.8**	-
2	**0.379**	**3**	**0.376**	**0.110**	**0.111**	**36.50**	**49.00**	**74566**	**73744**	**100102**	**98999**	**1.1**	**13.8**	-
3	**0.381**	**3**	**0.377**	**0.110**	**0.112**	**36.7**	**49.2**	**74974**	**73750**	**100511**	**98869**	**1.1**	**13.8**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Only 3 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. Akram (Material Engineer)
Maaksons Engineering Corporation (Pvt.) Ltd.
Enertech Head Office Building Lahore
(Mughal Steel)

Reference # CED/TFL **7176** (Dr. Rizwan Riaz) Dated: 03-07-2025
Reference of the request letter # Mak-Enertech-01 Dated: 03-07-2025

Tension Test Report (Page-1/1)

Date of Test 04-07-2025
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**	**34.50**	**45.70**	**70480**	**70366**	**93361**	**93209**	**1.1**	**13.8**	-
2	**0.372**	**3**	**0.373**	**0.110**	**0.109**	**32.70**	**44.50**	**66803**	**67169**	**90909**	**91408**	**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 Uzair Akbar (Sr. Site Engineer)
Akhuwat
Construction of Akhuwat Library at Akhuwat College Kasur
(Mughal Steel)

Reference # CED/TFL **7179** (Dr. Rizwan Riaz) Dated: 03-07-2025
Reference of the request letter # Nil Dated: 03-07-2025

Tension Test Report (Page-1/1)

Date of Test 04-07-2025
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	**0.371**	**3**	**0.372**	**0.110**	**0.109**	**34.70**	**43.00**	**70889**	**71573**	**87845**	**88693**	**1.2**	**15.0**	-
2	**0.374**	**3**	**0.374**	**0.110**	**0.11**	**34.70**	**43.50**	**70889**	**71038**	**88866**	**89054**	**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. M. Bilawal Mahmood (A /Resident Engineer ECSP PSCS)
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Engineering Procurment & Construction and Operation & Maintenance of Nineteen (19) Districts
(Smart Safe Cities Phase-II) Project for 19 Districts Phase-II (Mughal Supreme)

Reference # CED/TFL **7180** (Dr. Rizwan Riaz) Dated: 03-07-2025
Reference of the request letter # ECSP/PSCS/ARE/14 Dated: 08-05-2025

Tension Test Report

Date of Test 04-07-2025
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**	**36.00**	**47.00**	**67416**	**75516**	**88015**	**98591**	**1.1**	**13.8**	-
2	**0.362**	**10**	**0.368**	**0.120**	**0.106**	**36.70**	**47.20**	**68727**	**77478**	**88390**	**99644**	**1.1**	**13.8**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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. M. Bilawal Mahmood (A /Resident Engineer ECSP PSCS)
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Engineering Procurment & Construction and Operation & Maintenance of Nineteen (19) Districts
(Smart Safe Cities Phase-II) Project for 19 Districts Phase-II (Mughal Supreme)

Reference # CED/TFL **7180** (Dr. Rizwan Riaz) Dated: 03-07-2025
Reference of the request letter # ECSP/PSCS/ARE/17 Dated: 10-04-2025

Tension Test Report

Date of Test 04-07-2025
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	**0.369**	**10**	**0.371**	**0.120**	**0.108**	**34.70**	**46.20**	**64981**	**71975**	**86517**	**95828**	**1.1**	**13.8**	-
2	**0.363**	**10**	**0.368**	**0.120**	**0.107**	**34.70**	**45.00**	**64981**	**73117**	**84270**	**94820**	**1.1**	**13.8**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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. M. Bilawal Mahmood (A /Resident Engineer ECSP PSCS)
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Engineering Procurment & Construction and Operation & Maintenance of Nineteen (19) Districts
(Smart Safe Cities Phase-II) Project for 19 Districts Phase-II (Mughal Supreme)

Reference # CED/TFL **7180** (Dr. Rizwan Riaz) Dated: 03-07-2025
Reference of the request letter # ECSP/PSCS/ARE/16 Dated: 10-04-2025

Tension Test Report

Date of Test 04-07-2025
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	**0.359**	**10**	**0.367**	**0.120**	**0.106**	**34.50**	**45.20**	**64607**	**73412**	**84644**	**96181**	**1.0**	**12.5**	-
2	**0.368**	**10**	**0.371**	**0.120**	**0.108**	**37.70**	**48.00**	**70599**	**78371**	**89888**	**99783**	**1.1**	**13.8**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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. M. Bilawal Mahmood (A /Resident Engineer ECSP PSCS)
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Engineering Procurment & Construction and Operation & Maintenance of Nineteen (19) Districts
(Smart Safe Cities Phase-II) Project for 19 Districts Phase-II (Mughal Supreme)

Reference # CED/TFL **7180** (Dr. Rizwan Riaz) Dated: 03-07-2025
Reference of the request letter # ECSP/PSCS/ARE/15 Dated: 16-03-2025

Tension Test Report

Date of Test 04-07-2025
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	**0.368**	**10**	**0.371**	**0.120**	**0.108**	**36.00**	**46.70**	**67416**	**74783**	**87453**	**97011**	**0.9**	**11.3**	-
2	**0.363**	**10**	**0.369**	**0.120**	**0.107**	**37.20**	**47.20**	**69663**	**78320**	**88390**	**99374**	**1.0**	**12.5**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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. M. Bilawal Mahmood (A /Resident Engineer ECSP PSCS)
Engineering Consultancy Services Punjab (Pvt.) Ltd.
Engineering Procurment & Construction and Operation & Maintenance of Nineteen (19) Districts
(Smart Safe Cities Phase-II) Project for 19 Districts Phase-II (Mughal Supreme)

Reference # CED/TFL **7180** (Dr. Rizwan Riaz) Dated: 03-07-2025
Reference of the request letter # ECSP/PSCS/ARE/14 Dated: 10-03-2025

Tension Test Report

Date of Test 04-07-2025
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	**0.366**	**10**	**0.370**	**0.120**	**0.107**	**35.50**	**45.50**	**66479**	**74244**	**85206**	**95158**	**0.8**	**10.0**	-
2	**0.363**	**10**	**0.369**	**0.120**	**0.107**	**35.00**	**45.70**	**65543**	**73682**	**85581**	**96208**	**0.9**	**11.3**	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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. Rashid Kamran (Resident Engineer /E.R)
Nespak (Pvt.) Ltd.
Construction of Electric Bus Depot at Green Town, Lahore.
(Aziz Steel)

Reference # CED/TFL **7181** (Dr. Rizwan Riaz) Dated: 03-07-2025
Reference of the request letter # 4792/13/RK/05/74 Dated: 30-06-2025

Tension Test Report (Page-1/1)

Date of Test 04-07-2025
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	**0.368**	**3**	**0.371**	**0.110**	**0.108**	**30.70**	**46.20**	**62717**	**63842**	**94382**	**96075**	**1.2**	**15.0**	-
2	**0.375**	**3**	**0.374**	**0.110**	**0.11**	**34.50**	**50.50**	**70480**	**70407**	**103166**	**103059**	**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:

To,

M/s Rehman Engineering Solution

Reference # CED/TFL **7182** (Dr. M. Rizwan Riaz) Dated: 03-07-2025
Reference of the request letter # Nil Dated: 02-07-2025

Tension Test Report (Page – 1/1)

Date of Test 04-07-2025
Description Wire Rope Ceiling Tensile Test

Sr. No.	Nominal Diameter	Breaking Load	Remarks / Coil No.
	(mm)	(kg)	
1	**12mm x 700mm**	**8900**	**-**
2	**16mm x 700mm**	**16500**	**-**
3	**22mm x 700mm**	**23600**	**-**
-	-	-	-
Only three samples for Test			

Test Performed and Verified by:

Ref: CED/TFL/07/7185 Dated: 04-07-2025

Dated of Test: 04-07-2025 (Dr. Rizwan Riaz)

To

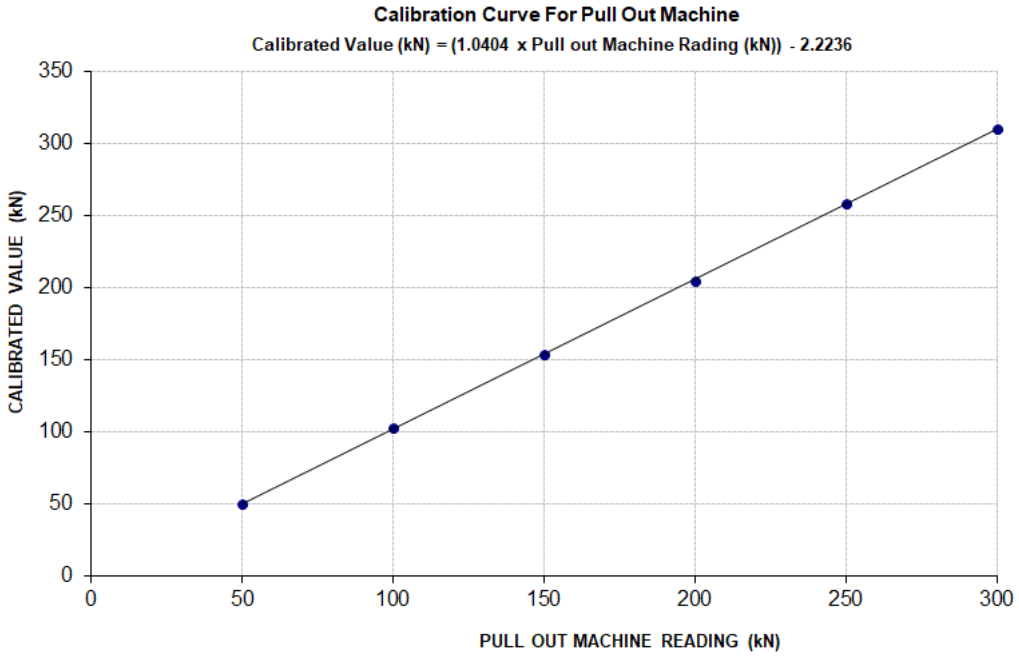
Laboratory Manager
China Gezhouba Group Company Limited
300 MW Balakot Hydro Power Project.

Subject: **- CALIBRATION OF PULL OUT MACHINE (MARK: TFL/07/7185)** (Page -1/1)

Reference to your Letter No. Nil, dated: 04/07/2025 on the subject cited above. One Pull Out Machine as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 500 (kN)
Calibrated Range : Zero - 300 (kN)

Hydraulic Jack Reading (kN)		**50**	**100**	**150**	**200**	**250**	**300**
Calibrated Load	**(kg)**	**5050**	**10450**	**15700**	**20850**	**26350**	**31600**
	(kN)	**50**	**103**	**154**	**205**	**258**	**310**



Test Performed and Verified by: