

STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan, Ph: 92-42-99029202

To,

Deputy Manager

POWERCHINA SEPCO1, Pakistan

Design, Manufacturing, Supply, Installation, Testing and Commission of 220kV Mirpur

Khas Substation and Extension at Hala Road Substation.

Reference # CED/TFL **2589** (Dr. Asad Ali)

Reference of the request letter # ADB-200/2018/342

Tension Test Report (Page -1/1)

Date of Test 10-01-2023 Gauge length 8 inches

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

Sr. No.	Weight	Si	neter/ ze m)	Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	Elongation	Remarks
6 2	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.423	10	10.10	0.12	0.124	4180	4950	76794	74140	90940	87800	1.40	17.5	
2	0.417	10	10.04	0.12	0.123	4350	5250	79917	78200	96451	94400	1.20	15.0	
3	0.417	10	10.04	0.12	0.123	4200	4690	77161	75510	86163	84400	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Note: only three samples for tensile and three samples for bend test													
10	Bend Test													

10mm Dia Bar Bend Test Through 180° is Satisfactory

10mm Dia Bar Bend Test Through 180° is Satisfactory

10mm Dia Bar Bend Test Through 180° is Satisfactory

Witness by Ibrar Ahmed (J.E NESPAK) and M Waheed Sheikh (Power China (SEPCO1))

I/C Testing Laboratoires **UET Lahore**, Pakistan.

Dated: 09-01-2023

Dated: 09-01-2023

- 1- You can See your reports On Internet in the following web site http://www.uet.edu.pk/faculties/facultiesinfo/civil/index.html?RID=testing_reports
- 2. The above results pertain to sample /samples supplied to this laboratory.
- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Resident Engineer ACE CSM Secretariat Office Building Multan & Allied Work

Reference # CED/TFL **2591** (Dr. M Kashif)

Reference of the request letter # ACE/RE/CSM/2022/443

Dated: 10-01-2023

Dated: 03-01-2023

Tension Test Report (Page -1/1)

Date of Test 10-01-2023 Gauge length 8 inches

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

Sr. No.	Weight	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	R
1	0.370	3	0.372	0.11	0.109	4180	5370	83800	84820	107600	109000	0.90	11.3	on el
2	0.374	3	0.374	0.11	0.110	4250	5470	85200	85120	109600	109600	1.00	12.5	Union Steel
-	ı	ı	-	-	-	-	-	ı	-	-	-	-	-	
1	1	1	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Note: only two samples for tensile and one sample for bend test													
Bend Test														
#3	#3 Bar Bend Test Through 180° is Satisfactory													

I/C Testing Laboratoires UET Lahore, Pakistan.

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- 3- Sealed sample / Unsealed sample / Marked sample/Signed Samples



STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

Chaudhry Talha Hassan Lahore

Reference # CED/TFL **2593** (Dr. M Kashif)

Reference of the request letter # Nil

Dated: 10-01-2023

Dated: 10-01-2023

Tension Test Report (Page -1/1)

Date of Test 10-01-2023 Gauge length 8 inches

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

Sr. No.	Weight		Diameter/ Size		Area (in²)		Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
S	(1J/sqI)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	3 %	Re
1	0.368	3	0.371	0.11	0.108	3570	4940	71600	72680	99000	100600	1.30	16.3	
2	0.368	3	0.371	0.11	0.108	3520	4940	70600	71630	99000	100600	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Note: only two samples for tensile and one sample for bend test													
	Bend Test													
#3	#3 Bar Bend Test Through 180° is Satisfactory													

Witness by Chaudhry Talha Hassan and Rehan Ahmed

I/C Testing Laboratoires UET Lahore, Pakistan.

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STRUCTURAL ENGINEERING DIVISION

Test Floor Laboratory Department of Civil Engineering University of Engineering and Technology Lahore, 54890 Pakistan. Ph: 92-42-99029202

To,

M/S Altec International Lahore

Reference # CED/TFL **2594** (Dr. M Kashif)
Reference of the request letter # Nil

Tension Test Report (Page – 1/1)

Date of Test 10-01-2023

Description Steel Wire Rope Tensile Test

Sr. No.	Nominal Diameter	Measured weight	Breaking Load	Remarks / Coil No.
	(mm)	(kg/m)	(kg)	Rema
1	8.3	0.25	4300	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
		Only one sample for Test	t	

I/C Testing Laboratoires UET Lahore, Pakistan.

Dated: 10-01-2023

Dated: 10-01-2023

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