

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

To, Head of Department Design & Construction Department - HO City Schools (Pvt) Ltd Bahria Campus Lahore Phase-II

Reference # CED/TFL <u>1672 (Dr. Usman Akmal)</u>

Reference of the request letter # TCS/D&C/HO/001/2025

Dated: 06-07-2022

Dated: 04-07-2022

Tension Test Report (Page -1/1)

Date of Test 14-07-2022 Gauge length 8 inches

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

Sr. No.	Weight	M Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)			te Stress si)	50		Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% Elongation	Re
1	0.359	3	0.367	0.11	0.106	3200	4900	64200	66770	98200	102300	1.10	13.8	
2	0.354	3	0.364	0.11	0.104	3200	4900	64200	67710	98200	103700	1.00	12.5	
-	ı	-	-	1	-	-	-	-	-	-	-	-	-	
-	ı	-	-	1	-	-	-	-	-	-	-	-	-	
-	ı	-	-	ı	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Note: only two samples for tensile and one sample for bend test													
		1		4000:	~		Bend T	est						
#3	Bar Ben	d Test	I'hrough	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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



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

To,
Sr. Manager Coordination
Dream Builders
Construction of Apartment Building at 32-P, Model Town Ext, Lahore

Reference # CED/TFL <u>1673 (Dr. Usman Akmal)</u>

Reference of the request letter # DB/CONST-32P/22/706

Dated: 06-07-2022

Dated: 06-07-2022

Tension Test Report (Page -1/1)

Date of Test 14-07-2022 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	Remarks
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	% E	Re
1	0.365	3	0.370	0.11	0.107	3100	4900	62200	63620	98200	100600	1.30	16.3	
2	0.362	3	0.368	0.11	0.106	3200	5000	64200	66260	100200	103600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			No	ote: on	ly two s	amples f	or tensile	and one	sample f	or bend t	test			
							Bend T	`est						
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

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

To, Admin Manager Banu Mukhtar Contracting (Pvt) Ltd Burj-1 by Ajwa Builders

Reference # CED/TFL <u>1675 (Dr. Usman Akmal)</u>

Reference of the request letter # DOC-BMC/AJWA/002

Dated: 06-07-2022

Dated: 05-07-2022

Tension Test Report (Page -1/1)

Date of Test 14-07-2022 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	Re
1	0.368	3	0.371	0.11	0.108	3300	4800	66200	67190	96200	97800	1.40	17.5	
2	4.188	10	1.252	1.27	1.231	39600	53200	68800	70910	92400	95300	1.50	18.8	
3	5.415	11	1.424	1.56	1.592	48400	68400	68400	67030	96700	94800	1.70	21.3	
-	ı	ı	-	ı	-	ı	•	-	-	-	•	-	1	
-	-	1	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Note: only three samples for tensile and three samples for bend test													
							Bend T	est						
#3	Bar Ben	d Test 7	Γhrough	180° is	s Satisfa	ctory								
#10) Bar Be	nd Test	Throug	gh 180°	is Satis	factory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

#11 Bar Bend Test Through 180° is Satisfactory

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

To,
Project Manager
Power Construction Corporation of China Ltd
Tarbela 5th Extension Hydropower Project Management Department

Reference # CED/TFL <u>1677 (Dr. M Rizwan Riaz)</u>

Reference of the request letter # PCCCL/T5-CIVIL/2022-528

Dated: 06-07-2022

Dated: 01-07-2022

Tension Test Report (Page - 1/2)

Date of Test 14-07-2022 Gauge length 640 mm

Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield st clause	_	Brea strength (6.	clause	Young's Modulus of Elasticity	% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)	E, GPa	%	Rema
1	15.24 (0.6")	1102.0	1125.0	24400	239.36	27100	265.85	199	>3.50	XX
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	

Only one sample 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

I/C Testing Laboratoires UET Lahore, Pakistan.

- 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
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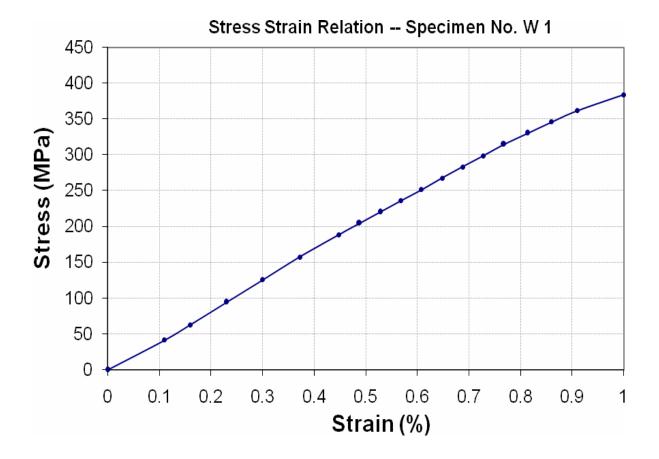
To,
Project Manager
Power Construction Corporation of China Ltd
Tarbela 5th Extension Hydropower Project Management Department

Reference # CED/TFL <u>1677 (Dr. M Rizwan Riaz)</u>
Reference of the request letter # PCCCL/T5-CIVIL/2022-528

Dated: 06-07-2022

Dated: 01-07-2022

Graph (Page -2/2)



I/C Testing Laboratoires UET Lahore, Pakistan.

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

To,
Resident Engineer
Pillar & Sons
Rumanza Golf & Country Club, DHA Multan

Reference # CED/TFL <u>1678 (Dr. Usman Akmal)</u> Dated: 07-07-2022 Reference of the request letter # P&S/OTH/GEN/00083 Dated: 04-07-2022

Tension Test Report (Page -1/1)

Date of Test 14-07-2022 Gauge length 8 inches

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

Sr. No.	Diameter/ Size		Area (in²)		Yield load	Breaking Load	Yield Stress (psi)			e Stress si)	Elongation	% Elongation	Remarks	
S	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)	∃%	Re
1	0.361	3	0.368	0.11	0.106	3100	4800	62200	64370	96200	99700	1.20	15.0	SJ Steel
2	0.362	3	0.368	0.11	0.106	3000	4800	60200	62190	96200	99600	1.00	12.5	Sto
3	4.212	10	1.256	1.27	1.238	42000	54600	72900	74770	94800	97200	1.60	20.0	
4	4.203	10	1.254	1.27	1.235	42600	54200	74000	76000	94100	96700	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Note: only four samples for tensile and two samples for bend test													
							Bend T	est						
#3	Bar Ben	d Test	Through	180° is	s Satisfa	ctory								

I/C Testing Laboratoires UET Lahore, Pakistan.

Note:

#10 Bar Bend Test Through 180° is Satisfactory

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