



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 Lubrigo Private Limited
Lahore

Reference # CED/TFL **36430** (Dr. Waseem Abbas)
Reference of the request letter # Nil

Dated: 05-05-2021
Dated: 05-05-2021

Tension Test Report (Page -1/2)

Date of Test 18-05-2020
Gauge length 8 inches
Description Anchor Bolt Tensile Test

Sr. No.	Weight (kg/m)	Diameter/ size		Area (mm ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (MPa) Actual	Ultimate Stress (MPa) Actual	Elongation (inch)	% Elongation	Remarks
		Nominal (mm)	Actual (mm)	Nominal	Actual							
1	8.160	36	36.38	-----	1039.5	47600	63800	449	602	1.30	16.3	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

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Ref: CED/TFL/05/36430

Dated: 05-05-2021

Dated of Test: 18-05-2021

To
M/S Lubrigo Private Limited
Lahore

Subject: - Anchor Bolt Nut Proof Load Test (Page -2/2)

Reference to your letter no. Nil, Dated: 05/05/2021 on the above mentioned subject. One Nut along with test Anchor Bolt as received by us has been tested and results are given below.

Sample	Proof Load Value	Remarks/ Observation
Nut-1	32700 kg (321kN)	(1) No stripping or rupture observed (2) Nut was removed from test bolt by the figures

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Resident Engineer
 ACES
 Ring Road - Rumanza Golf Course, DHA Multan
 (Director Spec Proj Branch - RGC - Project Manager M/s Crescent Engineers & Contrators)

Reference # CED/TFL **36440** (Dr. Waseem Abbass)

Dated: 17-05-2021

Reference of the request letter # ACES-DHAM-RGC-CE-08

Dated: 28-04-2021

Tension Test Report (Page -1/1)

Date of Test 18-05-2021

Gauge length 8 inches

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

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.370	10	9.45	0.12	0.109	3600	4800	66138	72940	88184	97300	1.30	16.3	Amreli Steel
2	0.373	10	9.49	0.12	0.110	3800	4600	69812	76400	84510	92500	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
M/S Transtech Engineering Company
NESPAK-CMEC
PTPL
Construction of 1263 MW Punjab Thermal Power Plant, Jhang (F.F Steel)

Reference # CED/TFL **36441** (Dr. Waseem Abbass)
Reference of the request letter # TEC/UET/21041001

Dated: 17-05-2021
Dated: 10-04-2021

Tension Test Report (Page -1/1)

Date of Test 18-05-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size (mm)		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Heat No.
		Nominal	Actual	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.462	10	10.56	0.12	0.136	3800	5700	69812	61740	104719	92700	1.60	20.0	1664
2	0.458	10	10.51	0.12	0.135	3900	5700	71650	63870	104719	93400	1.50	18.8	
3	0.451	10	10.43	0.12	0.133	3800	5600	69812	63210	102881	93200	1.50	18.8	1665
4	0.467	10	10.61	0.12	0.137	3900	5700	71650	62690	104719	91700	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and two sample for bend test														
Bend Test														
10mm Dia Bar Bend Test Through 180° is Satisfactory														
10mm Dia Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
 Incharge Works / APO
 CUI – Sahiwal Campus
 (Construction of 1st Floor on Existing Building of PHD Block at CUI – Sahiwal Campus)

Reference # CED/TFL **36442** (Dr. Waseem Abbass)
 Reference of the request letter # COMSATS/SWL/WD/942

Dated: 17-05-2021
 Dated: 10-045-2021

Tension Test Report (Page -1/1)

Date of Test 18-05-2021
 Gauge length 8 inches
 Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight (lbs/ft)	Diameter/ Size		Area (in ²)		Yield load (kg)	Breaking Load (kg)	Yield Stress (psi)		Ultimate Stress (psi)		Elongation (inch)	% Elongation	Remarks
		Nominal (#)	Actual (inch)	Nominal	Actual			Nominal	Actual	Nominal	Actual			
1	0.366	3	0.370	0.11	0.108	3700	5000	74200	75760	100200	102400	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

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To,
M/S Prefab Services (Pvt) Ltd
Wah Cantt

Reference # CED/TFL **36443** (Dr. Waseem Abbass)
Reference of the request letter # PSL/MTL/21/019

Dated: 18-05-2021

Dated: 04-05-2021

Tension Test Report (Page – 1/1)

Date of Test 18-05-2021

Gauge length 2 inches

Description CS Welded Plate Steel Strip Tensile and Bend Test

Sr. No.	Designation	Size of Strip	X Section Area	Breaking Load	Ultimate Stress	Elongation	% Elongation	Remarks
1	CS Welded Plate	21.00x11.40	239.40	12600	516.32	0.50	25.00	Failure at the location other than weld
2		21.60x11.40	246.24	12200	486.04	0.60	30.00	Failure at the location other than weld
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

Only two samples for tensile and four samples for bend test

Bend Test

Strip taken from CS Welded Plate Root Bend Test Through 180° is Satisfactory

Strip taken from CS Welded Plate Root Bend Test Through 180° is Satisfactory

Strip taken from CS Welded Plate Face Bend Test Through 180° is Satisfactory

Strip taken from CS Welded Plate Face Bend Test Through 180° is Satisfactory

I/C Testing Laboratories
UET Lahore, Pakistan.

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