



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

To,
 Manager
 ABL - UML P-199 & 200
 Allied Bank
 Construction of ABL, Upper Mall Lahore Plot No. 199, 200

Reference # CED/TFL **3894** (Dr. Ali Ahmed)

Dated: 12-09-2023

Reference of the request letter # ABL-UML-AMC-QAQC-26

Dated: 12-09-2023

Tension Test Report (Page -1/1)

Date of Test 13-09-2023

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	0.371	9.5	9.46	0.110	0.109	3800	4700	76200	76890	94200	95100	1.00	12.5	Afco Steel
2	0.365	9.5	9.39	0.110	0.107	3800	4800	76200	78030	96200	98600	0.90	11.3	
3	0.371	9.5	9.47	0.110	0.109	3700	4600	74200	74770	92200	93000	0.90	11.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only three samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 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



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

To,
Director (Civil)
Mineral Development Project
Islamabad

Reference # CED/TFL **3895** (Dr. Ali Ahmed)
Reference of the request letter # MDP-C&S-Gen(1)/2023

Dated: 12-09-2023
Dated: 28-08-2023

Tension Test Report (Page -1/1)

Date of Test 13-09-2023
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	5.246	11	1.401	1.56	1.542	45400	65400	64200	64890	92400	93500	1.50	18.8	
2	5.244	11	1.401	1.56	1.541	46800	66200	66200	66920	93600	94700	1.60	20.0	
3	5.228	11	1.399	1.56	1.537	45800	65400	64800	65700	92400	93900	1.50	18.8	
4	5.249	11	1.402	1.56	1.543	45800	65400	64800	65430	92400	93500	1.70	21.3	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only four samples for tensile and three samples for bend test														
Bend Test														
#11 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														
#11 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 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



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

Ref: CED/TFL/09/3896

Dated: 12-09-2022

Date of Test: 13-09-2022

To,

QAQC Manager CCECC
China Civil Engineering Construction Corporation
Pakistan Branch Office

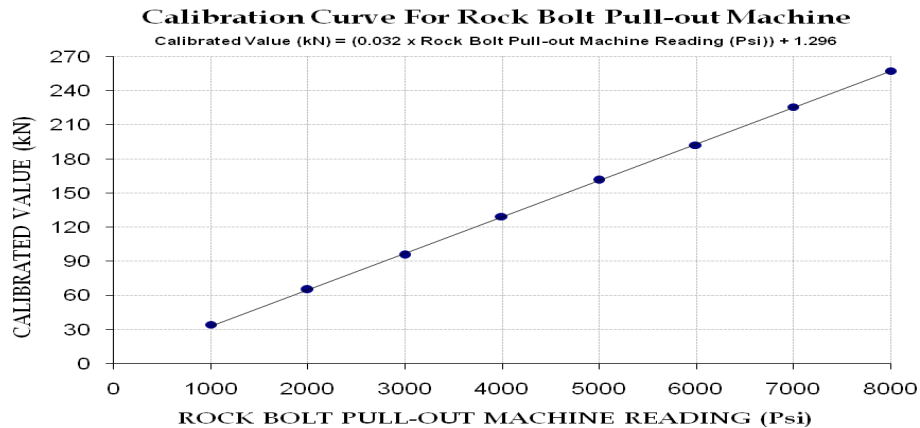
Subject: - CALIBRATION OF ROCK BOLT PULL-OUT MACHINE
(MARK: TFL/09/3896)

Reference to your Letter No. CCECC/PAK/DASUFIELD/KKH-01 & RAR-01/23-156, Dated: 05/09/2023 (ICB No. DASU-KKH-01) on the subject cited above. One Rock Bolt Pull-out Machine (30 Ton S/A Holl-o-Cylinder RC # 302, C 3118K, 066200530275 8) with Pressure Gauge (G2535L, Sr # 4132354015, Model-213.53.63, Art No. 7524111, Pump No. P-392) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 10000 (Psi)
Calibrated Range : Zero - 8000 (Psi)

Hydraulic Jack Reading (Psi)	1000	2000	3000	4000	5000	6000	7000	8000	
Calibrated Load	(k g)	3500	6650	9750	13200	16450	19600	23000	26250
	(kN)	34	65	96	129	161	192	226	258
Calibrated Pressure (Psi)	1069	2031	2977	4031	5023	5985	7023	8015	

The Ram Area of Jack = 46.58 cm²



I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 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



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 City Builders
Lahore

Reference # CED/TFL **3897** (Dr. Ali Ahmed)
Reference of the request letter # CB/KCW-U/05

Dated: 12-09-2023
Dated: 12-09-2023

Tension Test Report (Page -1/1)

Date of Test 13-09-2023
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	0.407	3	0.390	0.11	0.120	3900	5900	78200	71790	118300	108600	1.20	15.0	
2	0.390	3	0.382	0.11	0.115	3700	5600	74200	71060	112300	107600	1.10	13.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 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



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 Shahzad Ayub Associates (SAA)
Mandi Bahuddin

Reference # CED/TFL **3898** (Dr. Ali Ahmed)
Reference of the request letter # Nil

Dated: 12-09-2023

Dated: 11-09-2023

Tension Test Report (Page -1/1)

Date of Test 13-09-2023
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	0.359	3	0.367	0.11	0.106	3200	4400	64200	66810	88200	91900	1.40	17.5	
2	0.360	3	0.367	0.11	0.106	3200	4400	64200	66610	88200	91600	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180° is Satisfactory														

I/C Testing Laboratories
UET Lahore, Pakistan.

Note:

- 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



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 United Wire Industries (Pvt) Ltd
Lahore

Reference # CED/TFL **3899** (Dr. Ali Ahmed)
Reference of the request letter # UWIL/D-1863

Dated: 12-09-2023
Dated: 12-09-2023

Tension Test Report (Page – 1/1)

Date of Test 13-09-2023
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks/ Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	15.24 (0.6")	1102.0	1107.0	24300	238.38	27000	264.87	>3.50	
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
Only one sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 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



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 Nimbus Engineering Corporation (Pvt) Ltd
Lahore

Reference # CED/TFL **3902** (Dr. Ali Ahmed)
Reference of the request letter # NECL/331

Dated: 13-09-2023
Dated: 26-07-2022

Tension Test Report (Page – 1/1)

Date of Test 13-09-2023
Gauge length 640 mm
Description Steel Strand Tensile Test as per ASTM A-416-94a

Sr. No.	Nominal Diameter	Nominal Weight	Measured weight	Yield strength clause (6.3)		Breaking strength clause (6.2)		% Elongation	Remarks / Coil No.
	(mm)	(kg/km)	(kg/km)	(kg)	(kN)	(kg)	(kN)		
1	9.53 (3/8")	432.0	455.0	6200	60.82	8100	79.46	>3.50	xx
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	
Only one sample for Test									

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:

- 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