STRUCTURAL ENGINEERING DIVISION

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

To,
Chief Resident Engineer
Osmani & Company (Pvt) Ltd.
Design, Supply, Installation, Testing & Commission and Associated Civil Works for 132/11.5 kV AIS Outdoor Substation No. 1 at Allama Iqbal Industrial City, Near Sahianwala Interchange M4 Motorway, Faisalabad
Reference # CED/TFL **36642** (Dr. Ali Ahmed) Dated: 25-06-2021
Reference of the request letter # CRE/M4IC/AIIC-GS-01/Lab/132 Dated: 25-06-2021

Tension Test Report (Page -1/2)

Date of Test 30-06-2020
Gauge length 8 inches
Description Bolt Tensile Test

Sr. No.	Weight	Diameter/ size		Area (mm^2)		Yield load	Breaking Load	Yield Stress (MPa)	Ultimate Stress (MPa)	Elongation	% Elongation	Remarks
	(kg/m)	Nominal (mm)	Actual (mm)	Nominal	Actual	(kg)	(kg)	Actual	Actual	(inch)		
1	8.172	36	36.41	-------	1041.0	46000	58400	433	550	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
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-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample for tensile test												
Bend Test												

I/C Testing Laboratoires
UET Lahore, Pakistan.

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

Ref: CED/TFL/06/36642 Dated: 25-06-2021

Dated of Test: 30-06-2021

To
Chief Resident Engineer
Osmani & Company (Pvt) Ltd.
Design, Supply, Installation, Testing & Commission and Associated Civil Works for 132/11.5 kV AIS Outdoor Substation No. 1 at Allama Iqbal Industrial City, Near Sahianwala Interchange M4 Motorway, Faisalabad

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

Reference to your letter no. CRE/M4IC/AIIC-GS-01/Lab/132, Dated: 25/06/2021 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 fingures**

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Ref: CED/TFL/06/36656 Dated: 28-06-2021

Dated: 30-06-2021

To,
Resident Engineer
ProMag Pvt. Ltd
Construction of Amazon Hotel at G-11, Markaz Islamabad, Shring works with Anchors.

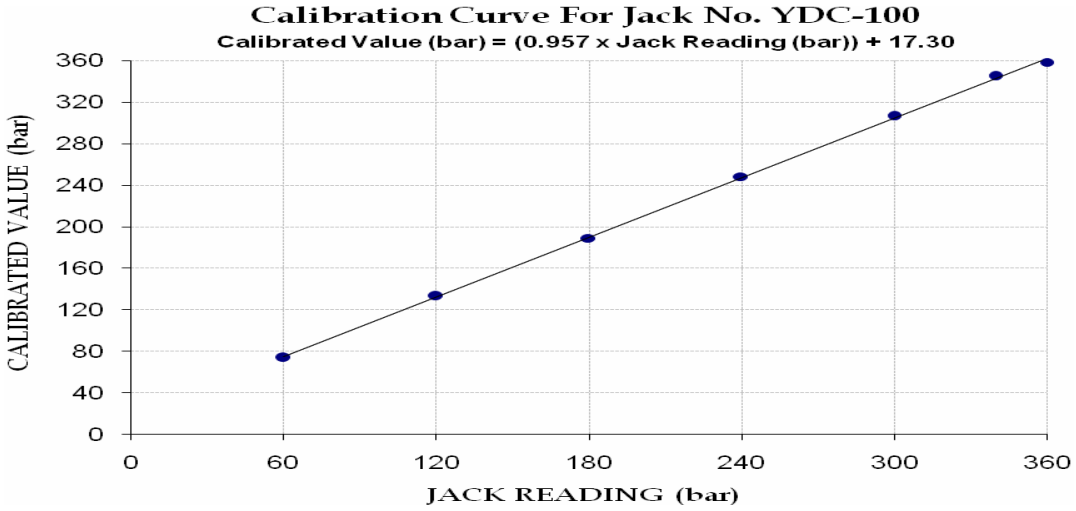
Subject: **- CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE (MARK: TFL/07/35115)** (Page -1/1)

Reference to your Letter No. RE/ProMag/Site/G-11/005, Dated: 14/06/2021 on the subject cited above. One Hydraulic Jack (Jack No YDC-100, Gauge No. YDC-100) as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 1000 (bar)
Calibrated Range : Zero - 360 (bar)

Hydraulic Jack Reading (bar)	**60**	**120**	**180**	**240**	**300**	**340**	**360**
Calibrated Load (k g)	**20400**	**36800**	**52200**	**68600**	**84700**	**95400**	**99100**
Calibrated Pressure (bar)	**74**	**133**	**189**	**248**	**306**	**345**	**358**

The Ram Area of Jack = 271.25 cm^2



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To,
Abdul Qadir Ali
Lahore

Reference # CED/TFL **36661** (Dr. Ali Ahmed) Dated: 29-06-2021
Reference of the request letter # Nil Dated: 29-06-2021

Tension Test Report (Page -1/1)

Date of Test 30-06-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.368	3	0.371	0.11	0.108	3000	4800	60200	61150	96200	97900	1.20	15.0	
2	0.379	3	0.377	0.11	0.111	2900	5100	58200	57360	102200	100900	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,
Principal
The Trust School
Aamir Town Harbanspura Lahore

Reference # CED/TFL **36663** (Dr. Ali Ahmed) Dated: 29-06-2021
Reference of the request letter # SBL/2021/UET-TEDDS/1223 Dated: 29-06-2021

Tension Test Report (Page -1/1)

Date of Test 30-06-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.375	3	0.375	0.11	0.110	2800	3700	56200	56030	74200	74100	1.30	16.3	Model Steel
2	0.378	3	0.376	0.11	0.111	2900	3900	58200	57470	78200	77300	1.50	18.8	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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Pakistan. Ph: 92-42-99029202

To,
M/S Flag Square Builder
Etihad Town Raiwind Road, Lahore

Reference # CED/TFL **36664** (Dr. Ali Ahmed) Dated: 29-06-2021
Reference of the request letter # FSB/03/ST Dated: 29-06-2021

Tension Test Report (Page -1/1)

Date of Test 30-06-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal (#)	Actual (inch)	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.379	3	0.377	0.11	0.111	3000	5000	60200	59340	100200	98900	1.10	13.8	
2	0.373	3	0.374	0.11	0.110	3200	4900	64200	64370	98200	98600	1.20	15.0	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
#3 Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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To,
Khalid Siddiq
Lahore
(Construction our Own Home 122A Ext. Cavalry Lahore)

Reference # CED/TFL **36665** (Dr. Waseem Abbass) Dated: 30-06-2021
Reference of the request letter # Nil Dated: 30-06-2021

Tension Test Report (Page -1/1)

Date of Test 30-06-2021
Gauge length 8 inches
Description Deformed Steel Bar Tensile and Bend Test as per ASTM-A615

Sr. No.	Weight	Diameter/ Size (inch)		Area (in^2)		Yield load	Breaking Load	Yield Stress (psi)		Ultimate Stress (psi)		Elongation	% Elongation	Remarks
	(lbs/ft)	Nominal	Actual	Nominal	Actual	(kg)	(kg)	Nominal	Actual	Nominal	Actual	(inch)		
1	0.378	3/8	0.376	0.11	0.111	3340	4340	67000	66170	87000	86000	1.40	17.5	
2	0.371	3/8	0.373	0.11	0.109	3310	4280	66400	66890	85800	86500	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only two samples for tensile and one sample for bend test														
Bend Test														
3/8" Dia Bar Bend Test Through 180º is Satisfactory														

I/C Testing Laboratoires
UET Lahore, Pakistan.

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