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/02/2762 Dated: 09-02-2023

Date of Test: 13-02-2023

To,

Sr. Manager Projects
Izhar Construction (Pvt) Ltd
Construction of Riphah Medical City Gulberg Greens Islamabad.
.

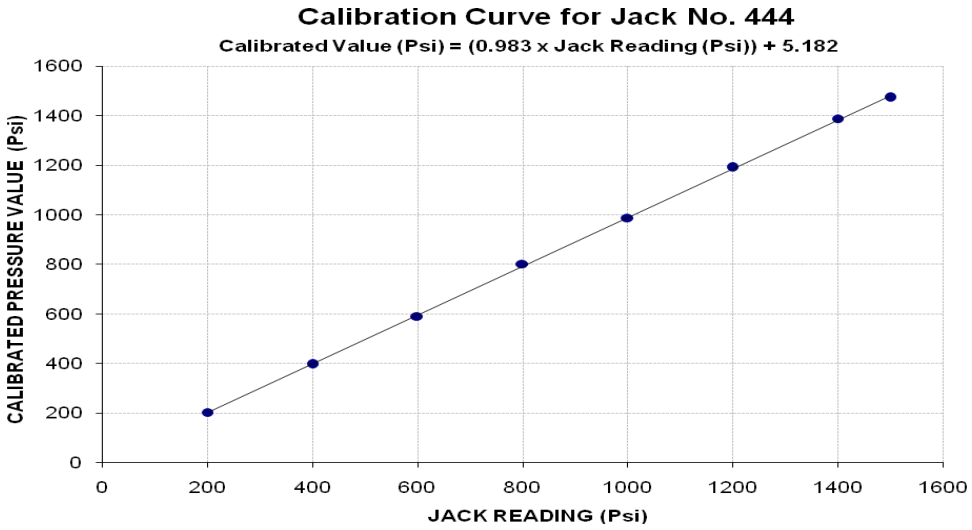
Subject: **- CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE (MARK: TFL/02/2762)** (Page # 1/3)

Reference to your Letter No. IZHAR/RIPHAH/028/2023, Dated: 09/02/2023 on the subject cited above. One Hydraulic Jack No. 444 with Pressure Gauge No. NR 135 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 5500 (Psi)
Calibrated Range : Zero - 1500 (Psi)

Jack Reading (Psi)	**200**	**400**	**600**	**800**	**1000**	**1200**	**1400**	**1500**
Calibrated Load (kg)	**26000**	**51000**	**76000**	**103000**	**127000**	**153200**	**178500**	**189400**
Calibrated Pressure (Psi)	**202**	**396**	**591**	**801**	**987**	**1191**	**1387**	**1472**

The Ram Area for Calibration = 283.64 in²



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/02/2762 Dated: 09-02-2023

Date of Test: 13-02-2023

To,

Sr. Manager Projects
Izhar Construction (Pvt) Ltd
Construction of Riphah Medical City Gulberg Greens Islamabad.
.

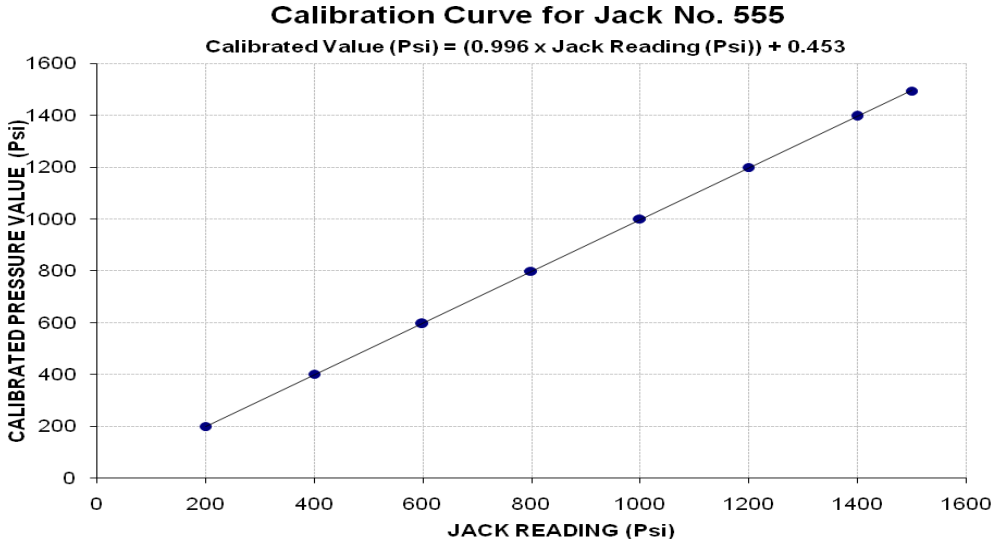
Subject: **- CALIBRATION OF HYDRAULIC JACK WITH PRESSURE GAUGE (MARK: TFL/02/2762)** (Page # 2/3)

Reference to your Letter No. IZHAR/RIPHAH/028/2023, Dated: 09/02/2023 on the subject cited above. One Hydraulic Jack No. 555 with Pressure Gauge No. NR 140 as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 5500 (Psi)
Calibrated Range : Zero - 1500 (Psi)

Jack Reading (Psi)	200	400	600	800	1000	1200	1400	1500
Calibrated Load (kg)	25700	51500	76600	102600	128600	154200	179500	192200
Calibrated Pressure (Psi)	200	400	595	797	1000	1199	1395	1494

The Ram Area for Calibration = 283.64 in^2



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
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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

Ref: CED/TFL/02/2762 Dated: 09-02-2023

Date of Test: 13-02-2023

To,

Sr. Manager Projects
Izhar Construction (Pvt) Ltd
Construction of Riphah Medical City Gulberg Greens Islamabad.

Subject: **- CALIBRATION OF DIAL GAUGES (MARK: TFL/02/2762)** (Page # 3/3)

Reference to your Letter No. IZHAR/RIPHAH/028/2023, Dated: 09/02/2023 on the subject cited above. Four Dial Gauges as received by us have been calibrated on standard calibration device. The results are tabulated as under.

Total Range : Zero - 50 (mm)
Calibrated Range : Zero - 50 (mm)

Standard Reading	Dial Gauge Readings			
	Dial Gauge No. I (3900419)	Dial Gauge No. II (3910316)	Dial Gauge No. III (3910261)	Dial Gauge No. IV (3900485)
400	391	394	392	391
800	792	791	791	791
1200	1193	1191	1191	1192
1600	1594	1590	1592	1592
2000	1995	1990	1993	1993
2400	2394	2390	2394	2395
2800	2795	2791	2794	2794
3200	3195	3191	3193	3195
3600	3596	3592	3593	3595
4000	3998	3992	3994	3994
4400	4398	4391	4393	4394
4800	4797	4791	4794	4794
5000	4997	4991	4994	4993

I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
1- You can See your reports On Internet in the following web site
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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,

Engr. Asif Naveed
Asian Consulting Engineers Pvt. :td
Provision of Infrastructural Academic Operational Facalities to The Punjab University of Technology Rasul, Mandi Bahauddin.3.
(Construction of Residences Grade (15, 17), Grade (11, 14), Boundary Wall, Gate and Gate Pillars, Observation Posts Group. OHR- 50,000 Gallon, 4 nos. and installation including Boring and Chamber)(Group # 06)

Reference # CED/TFL **2765** (Dr. Rizwan Azam) Dated: 10-02-2023
Reference of the request letter# AsCE/PUT-RSL/2023-RE-14 Dated: 09-02-2023

Tension Test Report (Page -1/7)

Date of Test 13-02-2023
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	0.372	3	0.373	0.11	0.109	3400	4900	68200	68500	98200	98800	1.00	12.5	Mughal Supreme
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

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,

Engr. Asif Naveed
Asian Consulting Engineers Pvt. :td
Provision of Infrastructural Academic Operational Facalities to The Punjab University of Technology Rasul, Mandi Bahauddin.3.
(Construction of Academic Block # 01),(Group # 01)

Reference # CED/TFL **2765** (Dr. Rizwan Azam) Dated: 10-02-2023
Reference of the request letter# AsCE/PUT-RSL/2023-RE-15 Dated: 09-02-2023

Tension Test Report (Page -2/7)

Date of Test 13-02-2023
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	0.376	3	0.375	0.11	0.110	3400	5200	68200	67850	104200	103800	1.30	16.3	Ittehad Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

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.
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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,

Engr. Asif Naveed
Asian Consulting Engineers Pvt. :td
Provision of Infrastructural Academic Operational Facalities to The Punjab University of Technology Rasul, Mandi Bahauddin.3.
(Construction of 04 Nos. Student Hostel),(Group # 04)

Reference # CED/TFL **2765** (Dr. Rizwan Azam) Dated: 10-02-2023
Reference of the request letter# AsCE/PUT-RSL/2023-RE-17 Dated: 09-02-2023

Tension Test Report (Page -3/7)

Date of Test 13-02-2023
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	0.370	3	0.372	0.11	0.109	3400	5000	68200	68980	100200	101500	1.20	15.0	Ittehad Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

Note:
1- You can See your reports On Internet in the following web site
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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,

Engr. Asif Naveed
Asian Consulting Engineers Pvt. :td
Provision of Infrastructural Academic Operational Facalities to The Punjab University of Technology Rasul, Mandi Bahauddin.3.
(Construction of Residences Grade 20 & above, Grade 18 to 19 and Bachelor Faculty Hostel),(Group # 05)

Reference # CED/TFL **2765** (Dr. Rizwan Azam) Dated: 10-02-2023
Reference of the request letter# AsCE/PUT-RSL/2023-RE-18 Dated: 09-02-2023

Tension Test Report (Page -4/7)

Date of Test 13-02-2023
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	0.112	2600	3800	52100	51380	76200	75100	0.90	11.3	PK Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

Note:
1- You can See your reports On Internet in the following web site
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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,

Engr. Asif Naveed
Asian Consulting Engineers Pvt. :td
Provision of Infrastructural Academic Operational Facalities to The Punjab University of Technology Rasul, Mandi Bahauddin.3.
(Construction of OHR, Group # 06)

Reference # CED/TFL **2765** (Dr. Rizwan Azam) Dated: 10-02-2023
Reference of the request letter# AsCE/PUT-RSL/2023-RE-13 Dated: 09-02-2023

Tension Test Report (Page -5/7)

Date of Test 13-02-2023
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	0.371	3	0.372	0.11	0.109	3500	5100	70200	70820	102200	103200	1.40	17.5	Mughal Supreme
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

Note:
1- You can See your reports On Internet in the following web site
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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,

Engr. Asif Naveed
Asian Consulting Engineers Pvt. :td
Provision of Infrastructural Academic Operational Facalities to The Punjab University of Technology Rasul, Mandi Bahauddin.3.
(Construction of Academic Block # 02), (Group # 02)

Reference # CED/TFL **2765** (Dr. Rizwan Azam) Dated: 10-02-2023
Reference of the request letter# AsCE/PUT-RSL/2023-RE-16 Dated: 09-02-2023

Tension Test Report (Page -6/7)

Date of Test 13-02-2023
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	0.382	3	0.378	0.11	0.112	3400	5200	68200	66670	104200	102000	1.10	13.8	Ittehad Steel
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Note: only one sample 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.

Note:
1- You can See your reports On Internet in the following web site
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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,

Engr. Asif Naveed
Asian Consulting Engineers Pvt. :td
Provision of Infrastructural Academic Operational Facalities to The Punjab University of Technology Rasul, Mandi Bahauddin.3.
(Construction of Admin Block, Central Library and Student Service Centre, Group # 03)

Reference # CED/TFL **2765** (Dr. Rizwan Azam) Dated: 10-02-2023
Reference of the request letter# AsCE/PUT-RSL/2023-RE-12 Dated: 09-02-2023

Tension Test Report (Page -7/7)

Date of Test 13-02-2023
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	0.372	3	0.373	0.11	0.109	3500	4500	70200	70630	90200	90900	0.90	11.3	Mughal
2	0.371	3	0.372	0.11	0.109	3700	4700	74200	74860	94200	95100	1.00	12.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:
1- You can See your reports On Internet in the following web site
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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,

M/S Al-A'Zamiyya Block Phase I
Lahore

Reference # CED/TFL **2766** (Dr. Rizwan Azam) Dated: 10-02-2023
Reference of the request letter# Alz./ST/002 Dated: 10-02-2023

Tension Test Report (Page -1/1)

Date of Test 13-02-2023
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	3900	5000	78200	79560	100200	102000	1.30	16.3	
2	0.368	3	0.371	0.11	0.108	4000	5000	80200	81530	100200	102000	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.

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/02/2768 Dated: 10-02-2023

Date of Test: 13-02-2023

To,

M/S Hajveri Power T.R.W
Lahore

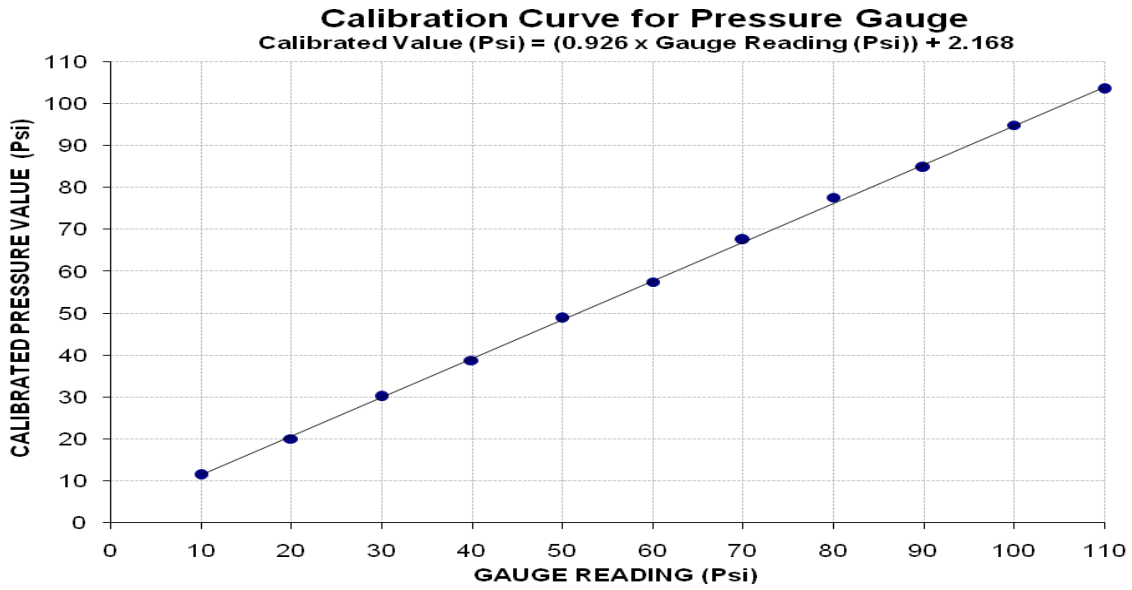
Subject: **- CALIBRATION OF PRESSURE GAUGE (MARK: TFL/02/2768)** (Page # 1/1)

Reference to your Letter No. nil, Dated: 10/02/2023 on the subject cited above. One Pressure Gauge as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 150 (Psi)
Calibrated Range : Zero - 110 (Psi)

Pressure Gauge Reading (Psi)	10	20	30	40	50	60	70	80	90	100	110
Calibrated Load (kg)	160	280	420	540	680	800	940	1080	1180	1320	1440
Calibrated Pressure (Psi)	11	20	30	39	49	57	68	78	85	95	103

The Ram Area for Calibration = 198 cm^2



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/02/2769 Dated: 10-02-2023

Dated: 11-02-2023

To

Q.C Officer
M.E.L (Steel Division)
Chiniot

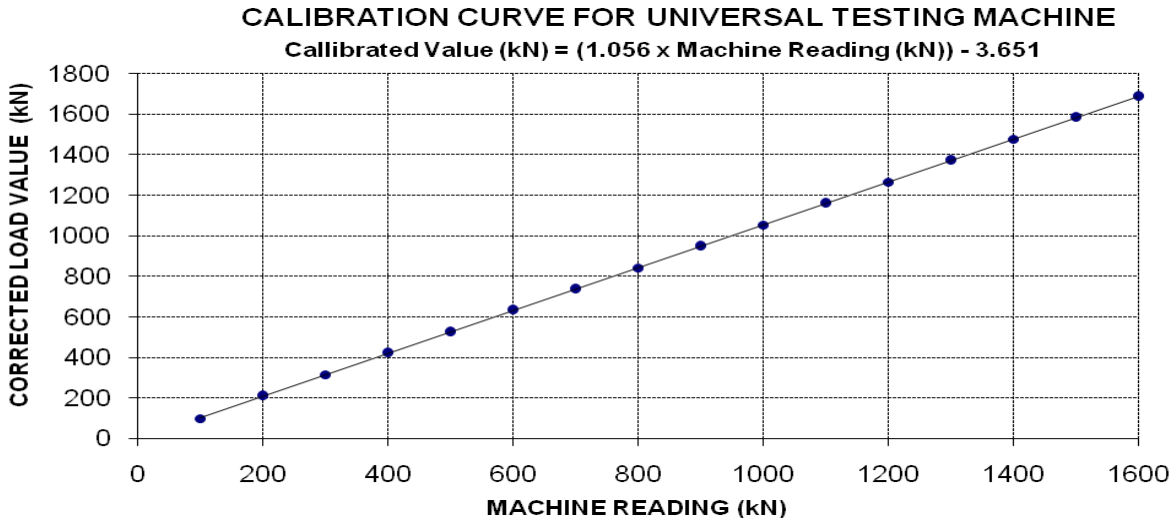
Subject:- **CALIBRATION OF UNIVERSAL TESTING MACHINE OF 2000kN (MARK: CED/TFL/02/2769)**

Reference to your letter No. Nil, dated: 02/02/2023 on the subject cited above. One Universal Testing Machine (Model: WAW-2000E) has been calibrated by using standard calibration device. The results are tabulated as under:

Total Range : Zero – 2000 (kN)

Calibrated Rang : Zero – 1600 (kN)

Machine Reading (kN)	**100**	**200**	**300**	**400**	**500**	**600**	**700**	**800**	**900**	**1000**	**1100**	**1200**	**1300**	**1400**	**1500**	**1600**
Corrected Load Value (kN)	**97**	**209**	**315**	**420**	**524**	**632**	**736**	**842**	**947**	**1054**	**1159**	**1264**	**1370**	**1476**	**1582**	**1685**



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/02/2770 Dated: 13-02-2023

Date of Test: 13-02-2023

To,

M/S Bemsol Private Limited
Lahore

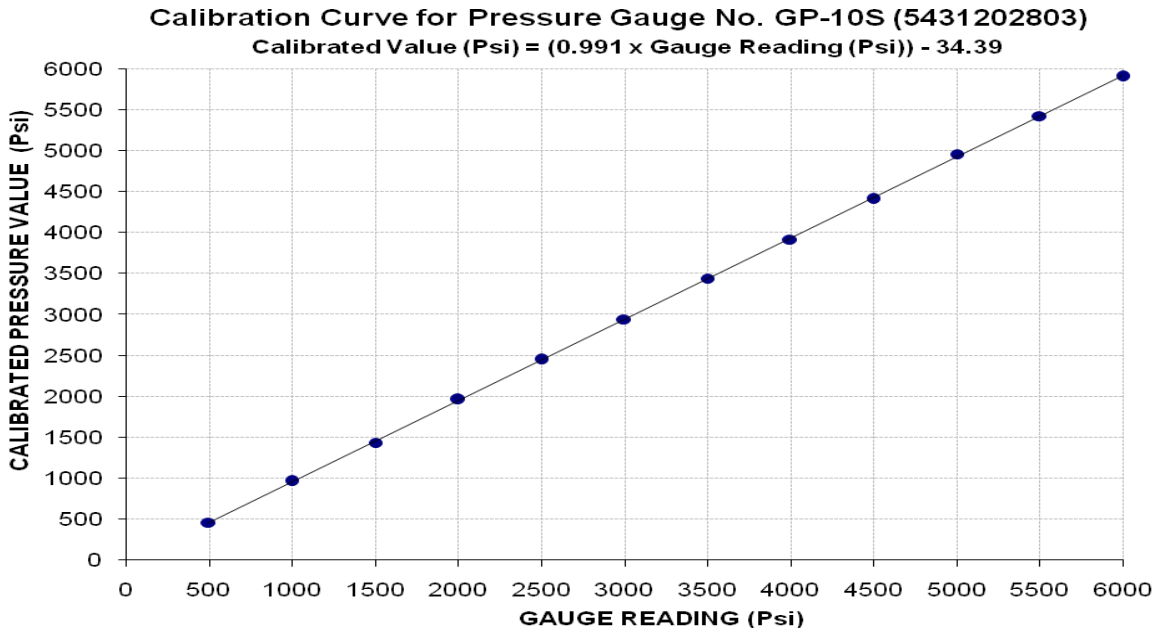
Subject: **- CALIBRATION OF PRESSURE GAUGE (MARK: TFL/02/2743)** (Page # 1/1)

Reference to your Letter No. BPL/UET/202302131, Dated: 11/02/2023 on the subject cited above. One Pressure Gauge No. GP-10S (5431202803), Make ENERPAC as received by us has been calibrated. The results are tabulated as under:

Total Range : Zero - 10000 (Psi)
Calibrated Range : Zero - 6000 (Psi)

Pressure Gauge Reading (Psi)	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
Calibrated Load (kg)	6400	13400	20000	27300	34100	41000	47900	54500	61400	69000	75500	82200
Calibrated Pressure (Psi)	460	963	1437	1961	2450	2945	3441	3915	4411	4957	5423	5905

The Ram Area for Calibration = 198 cm^2



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,

Project Manager
Renaissance International Pvt Ltd.
Construction of RCC Roof Slab for Grid Station control Room at LMC Project, Sheikhupura Road, Lahore

Reference # CED/TFL **2773** (Dr. Rizwan Azam) Dated: 13-02-2023
Reference of the request letter# QC/23/048 Dated: 12-02-2023

Tension Test Report (Page -1/1)

Date of Test 13-02-2023
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	0.378	3	0.376	0.11	0.111	3500	4700	70200	69510	94200	93400	1.30	16.3	FF Steel
2	0.383	3	0.379	0.11	0.113	3600	5100	72200	70500	102200	99900	1.40	17.5	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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.

Note:
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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,

Resident Engineer,
Orbit Developers Private Limited
The Spring Atrium, Gulberg Lahore

Reference # CED/TFL **2774** (Dr. Rizwan Azam) Dated: 13-02-2023
Reference of the request letter# NIL Dated: 13-02-2023

Tension Test Report (Page -1/1)

Date of Test 13-02-2023
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	0.362	3	0.368	0.11	0.106	3200	4800	64200	66250	96200	99400	1.10	13.8	
2	0.361	3	0.367	0.11	0.106	3300	4900	66200	68620	98200	101900	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														

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I/C Testing Laboratoires
UET Lahore, Pakistan.

Note:
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