



**NATIONAL METROLOGY LABORATORY
OF THE PHILIPPINES**

Providing International Traceability to Measurements in the Country

CALIBRATION CERTIFICATE

No. 05-2022-FORC-0132

Date of Calibration : **December 19, 2024**
Calibration Item : **Tensile Testing Machine**
Capacity : **100 lbf**
Measurement Range : **0 lbf to 90 lbf**
Resolution : **0.01 lbf**
Make / Model : **Yuelian / STS-100kg**
Serial No. : **J974953; 14143 (Indicator)**
Customer : **MANILA CORDAGE COMPANY**
No. 116 Progress Ave., Carmelray Industrial Park I
Canlubang, Calamba City, Laguna

MEASUREMENT RESULTS:

Applied Force	Indicated Force	Relative Expanded Uncertainty	Relative Measurement Error	Relative Repeatability Error
lbf	lbf	%	%	%
0.0	0.0	0.00	0.00	0.00
20.0	20.2	0.89	-1.12	1.37
40.0	40.4	0.16	-1.11	0.22
60.0	60.7	0.12	-1.18	0.16
80.0	81.0	0.39	-1.21	0.63
90.0	91.1	0.31	-1.19	0.49

UNCERTAINTY OF MEASUREMENT:

The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor $k = 2$. It has been determined in accordance with the "JCGM 100:2008 Evaluation of measurement data- Guide to the Expression of Uncertainty in measurement". The value of the measurand lies within the assigned range of values with a probability of approximately 95%.