



**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%.