

# CERTIFICATE OF CALIBRATION

**PT TELEKOMUNIKASI INDONESIA Tbk**  
**KAN ACCREDITED CALIBRATION LABORATORY (LK-016-IDN)**

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Date of Issue : 27-Feb-2019  
 Submitted by : PT. TELEKOMUNIKASI INDONESIA Tbk.  
 DIVISI DIGITAL SERVICE  
 Attention : Manager Infrastructure Quality Assurance DDS  
 Description : High Voltage Digitalmeter  
 Manufacturer/Model : Kikusui / 149-10A  
 Serial Number : JK003087  
 Environment : 23 °C ± 2 °C 55 % ± 10 % RH  
 Calibration Location : In House  
 Date Calibrated : 26-Feb-2019  
 Recommended Due Date : 25-Feb-2020  
 Date Received : 18-Feb-2019

PT. Telekomunikasi Indonesia, Tbk. - Telkom Certifies that this instrument has been calibrated under the environmental condition stated above using telkom standard (s) which is (are) traceable to the international system of Units (SI) through a Nasional Metrology Institute (NMI) such as UKAS, or PPM-LIPI

## Method of Calibration :

The calibration was carried out based on the established Standard Telkom Calibration Procedure, TCL-WI-2003 and by comparison against the following standard(s) and instrument(s) which is (are) calibrated on schedule to maintain traceability and required accuracy :

Description	S/N	Cal Date	Due Date
1. Withstanding Voltage Tester	GF000684	03-Dec-2018	02-Dec-2019
2. High Voltage Digitalmeter	AJ002569	30-Jan-2019	29-Jan-2020

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Checked By : 

Certificate Number : CCL/19/0113/DY

## 1. DC HIGH VOLTAGE TEST

TEST No.	CALIBRATOR OUTPUT	INDICATED VALUE		CORRECTION	SPECIFICATION	UNCERTAINTY	
		REF STD	UUT				
1	0.500 kV	0.503 kV	0.503 kV	0.000 kV	± 0.015 kV	±	0.01 kV
2	1.000 kV	1.006 kV	0.999 kV	0.007 kV	± 0.005 kV	±	0.01 kV
3	2.000 kV	2.006 kV	2.001 kV	0.005 kV	± 0.011 kV	±	0.02 kV
4	3.000 kV	3.007 kV	3.002 kV	0.005 kV	± 0.016 kV	±	0.03 kV
5	4.000 kV	4.015 kV	4.012 kV	0.003 kV	± 0.021 kV	±	0.04 kV
6	5.000 kV	5.016 kV	5.010 kV	0.006 kV	± 0.027 kV	±	0.05 kV
7	6.000 kV	6.006 kV	6.006 kV	0.000 kV	± 0.032 kV	±	0.06 kV
8	7.000 kV	7.006 kV	7.005 kV	0.001 kV	± 0.037 kV	±	0.07 kV
9	8.000 kV	8.010 kV	8.006 kV	0.004 kV	± 0.042 kV	±	0.09 kV
10	9.000 kV	9.009 kV	9.009 kV	0.000 kV	± 0.048 kV	±	0.10 kV
11	10.000 kV	10.015 kV	10.012 kV	0.003 kV	± 0.053 kV	±	0.11 kV

## 2. AC HIGH VOLTAGE TEST

TEST No.	CALIBRATOR OUTPUT	INDICATED VALUE		CORRECTION	SPECIFICATION	UNCERTAINTY	
		REF STD	UUT				
1	0.500 kV	0.510 kV	0.508 kV	0.002 kV	± 0.015 kV	±	0.004 kV
2	1.000 kV	1.010 kV	1.009 kV	0.001 kV	± 0.011 kV	±	0.008 kV
3	2.000 kV	2.005 kV	2.007 kV	-0.002 kV	± 0.021 kV	±	0.02 kV
4	3.000 kV	3.011 kV	3.014 kV	-0.003 kV	± 0.032 kV	±	0.02 kV
5	4.000 kV	4.011 kV	4.016 kV	-0.005 kV	± 0.042 kV	±	0.03 kV
6	5.000 kV	5.016 kV	5.019 kV	-0.003 kV	± 0.053 kV	±	0.04 kV
7	6.000 kV	6.010 kV	6.016 kV	-0.006 kV	± 0.063 kV	±	0.05 kV
8	7.000 kV	7.018 kV	7.021 kV	-0.003 kV	± 0.074 kV	±	0.05 kV
9	8.000 kV	8.005 kV	8.019 kV	-0.014 kV	± 0.084 kV	±	0.06 kV
10	9.000 kV	9.001 kV	9.021 kV	-0.020 kV	± 0.095 kV	±	0.07 kV
11	10.000 kV	10.009 kV	10.020 kV	-0.011 kV	± 0.105 kV	±	0.08 kV