

## Guide to VSAT Certification in Indonesia

### Certification in Indonesia

Certificate of approval is required for every telecommunication and ITE equipment entering Indonesian territory. The certificate of approval is issued by Directorate General of Resources and Equipment Standardization for Post and Informatics (SDPPI). Certifications are granted at the system (host) level. The certificate is valid for each type or model number of equipment while product or model series certificate or type approval is not acceptable.

### In-Country Testing

In-Country testing is required prior to certificate issuance by SDPPI. RF / Telecom Test is mandatory while EMC and safety is voluntary. The test will require 2 (two) samples of equipment and it will be conducted by local laboratories which appointed by SDPPI.

### Applicable Standards in Indonesia

Approval test will be based on national standards: KEPDIRJEN No. 346/DIRJEN/2003. The national standards are mainly adopted from ETS 300 159 and ETS 300 332. The key parameters are as follows:

- Radio Terminal Characteristic

C Band	Uplink	5.925 – 6.425 GHz
	Downlink	3.700 – 4.200 GHz
Channel Spacing	≤ 150 kHz	
Modulation	BPSK, QPSK or other derivatives	
Cross Polarization	≥ 25 dB	

Ku Band	Uplink	13.754 – 14.486 GHz (FSS) 14.400 – 14.500 GHz (FS)
	Downlink	10.954 – 11.686 GHz (FSS) 10.950 – 11.705 GHz (FS)

Antenna Diameter (M)	Linear Polarization Limits of Cross Polarization Discrimination (dB)	Circular Polarization Limits of Axial Force Ratio
D ≤ 4.5	25	1.3
D ≥ 4.5	27	1.00

- Spurious Emission

VSAT on the state of transmission disable, off axis spurious EIRP

Frequency Range (GHz)	EIRP Limit (dBpW)
1.425 – 1.661	48
2.170 – 2.670	48
3.400 – 4.200	48
4.500 – 4.800	48
5.925 – 7.075	48
8.120 – 8.270	48
10.950 – 12.700	54
13.754 – 14.500	54

Both carrier on and off, off axis spurious EIRP

Frequency Range (GHz)	EIRP Limit (dBpW)
1.425 – 1.661	49
2.170 – 2.670	49
3.400 – 4.200	55
4.500 – 4.800	55
5.925 – 7.075	55
8.120 – 8.270	55
10.950 – 12.700	61
13.754 – 14.500	61

- Transmitter Polarization Discrimination

Refer to ETS 300 159

## Documentations Requirements

1. Completed Application Forms: Application Form (FR.PM.5), Inspection Form (FR.PM.4), Power of Attorney to *TEKNOKRAT* Indonesia
2. Technical Constructive File: General information, Installation guide, User manual, BOM, Hardware description, Block diagram, Assembly Top/Bottom, Conducted test report (RF / Telecom and EMC & Safety test)
3. Copy of Certificates of Compliance (from other country)

TEKNOKRAT's services have been specifically designed to support manufacturers, test laboratories and consultants seeking type approval in Indonesia for telecommunications equipment and other ITE. The world's leading telecommunications equipment vendors already recognize the value in our service and entrust their approvals in Indonesia to us. We would be delighted to have the opportunity to support your telecom approvals.

for further information please contact: [customer@typeapproval.or.id](mailto:customer@typeapproval.or.id)