Posts and Telecommunications Department,MoTC

Sr.	Description of Equipment (Technical Details)	Qty.
1	**Fixed Monitoring Station (FMS), Type I** Direction Finding (DF) Processor/Receiver(s) VHF/UHF - DF Processor model 5095, included DF receiver(Downconverter) - TDOA and Hybrid geolocation that combines Angle of Arrival (AOA) and/or TDOA measurements. - IF real time bandwidth up to 40MHz GPS based precision frequency reference. - Integrated inside DF processor	3 Sets
2	DF antennas for VHF and UHF, including RF lines and Switches, Vertical & Horizontal Polarization - DF and Monitoring from 20MHz up to 8000MHz. Dual polarization Receive antennas, including RF lines and Switches, VHF/UHF/SHF, Vertical Polarization, Passive, OMNI. - Integrated inside the antenna	3 Sets
3	Receive antennas for HF, including RF lines and Switches, Vertical Polarization, Passive, OMNI. Active Monopole Antenna, 9 kHz - 30 MHz	3 Sets
4	Passive Directional log-periodic receive antennas in the VHF/UHF bands, including RF and control lines and switches - Frequency range from 30MHz to 3000MHz	3 Sets
5	Remote controlled antenna rotator for vertical and horizontal rotations.	3 Sets
6	Monitoring Receiver / Analyzer HF/VHF/UHF/SHF. Downconverter - Will be integrated inside DF processor included: VHF/UHF Downconverter Sample channel VHF/UHF Downconverter REF channel	3 Sets
7	Communications Network. - Included router and modem for IP based network Cisco: 4-port 10-/100-Mbps managed switch	3 Sets
8	Steel material to install Monitoring tower. 50m tower on grounded base with fencing	3 Sets

9	Racks, cabling and accessories.
	  - 19" rack for equipment installation
	  - 7/8" RFS feeder cable for DF/Monitoring antenna
	  - Control cable for DF/Monitoring antenna
	  - RF jumper cable, accessories for completing the system installation
		3 Sets

10	Grounding and lightning-arrester subsystem.
	  - Lightning rod for DF/Monitoring antenna
	  - Grounding kit for 7/8" Feeder cable and Control cable
	  - Lightning arrester for all inside equipment
		3 Sets

11	GPS Unit - Integrated inside DF processor - handheld GPS Garmin etrex20i Spec: 65K color TFT 2x AA baterry weight: 141g (with battery)	3 Sets

12	Client Spectrum Monitoring software/workstation
	Workstation: Aberdeen Workstation
	  - 2U, 19" rack mount workstation
	  - INTEL CORE I7-4790K 4GHz 8MB 88W LGA1150 CPU RETAI
	- Client Spectrum Monitorin Software included Vector Signal Analysis
		3 Sets

13	1U19" LCD Rackmount(Include Keyboard and Touchpad);	3 Sets