

**D.Table 12.3-1 Composition of HF Radio Monitoring and Direction Finding System**

No.	Item	Description	Remarks
1	HF Master Monitoring Equipment	Monitoring radiated radio waves (Measuring quality of radio waves and demod.)	
2	Direction Finder (including Antenna for DF)	Measuring direction of radiated waves	
3	Spectrum Auto. Recorder	Spectrum auto recording for radiated waves	
4	HF Monitor Receiver	Operation monitoring of radio stations and investigation of interference	At least 2 sets
5	Personal Computer	Auto monitoring (receiver and tape recorder combined)	
6	Stereo Tape Recorder	Operation monitoring of radio stations with Auto monitoring (receiver and tape recorder)	
7	Field Strength Measuring Equipment	Field strength measuring of signals	
8	Personal Computer	Auto measurement of field strength (combined with field strength measuring set)	
9	Ant. Multicoupler		
10	Terminal Equipment (including NCU)	Access to database	
11	Frequency Counter		
12	Power Meter		
13	Transceiver	Communication with mobile monitor vehicle	
14	Antenna for Monitoring		
1)	Inclined type Antenna	For HF band reception	
2)	Loaded Antenna	For field strength measuring	
3)	Inversed Cone Antenna	For HF band reception	
4)	Parabolic or Yagi Antenna	Access to database	
5)	Discone or Brown Antenna	Communication with mobile monitoring vehicle	
15	Mobile Monitoring Vehicle Facilities	Mobile monitoring, investigation interfere and illegal radio stations	
1)	Mobile Monitoring Vehicle		
2)	Monitoring Equipment		
3)	HF Receiver		
4)	Mobile Mounted DF Measuring Equipment		
5)	Field Strength Measuring Equipment		
6)	Others		
16	Measuring Equipment for Maintenance	Maintenance for monitoring station	

**D.Table 12.3-2 Composition of VHF/UHF Radio Monitoring and Direction Finding System**

No.	Item	Description	Remarks
1	VHF/UHF Master Monitoring Equipment	Monitoring radiated radio waves (Measuring quality of radio waves and demod.)	At least 2 sets
2	Direction Finder (including Antenna for DF)	Measuring direction of radiated waves	
3	Spectrum Auto. Recorder	Spectrum auto recording for radiated waves	
4	VHF/UHF Monitor Receiver	Operation monitoring of radio stations and investigation of interference	
5	Personal Computer	Auto monitoring (receiver and tape recorder combined)	
6	Stereo tape Recorder	Operation monitoring of radio stations with Auto monitoring (receiver and tape recorder)	
7	Ant. Switcher		
8	Ant. Roter Unit		
9	Ant. Multicoupler		
10	Terminal Equipment (including NCU)	Access to database	
11	Substation	VHF/UHF Direction finder	
12	Transmission Equipment for Substation	Radio equipment, Remote control terminal etc.	
13	Transceiver	Communication with movile monitor vehicle	
14	Ant. for Monitoring		
1)	Discone Antenna	For VHF/UHF band reception	
2)	Log-periodic Antenna	For VHF/UHF band reception	
3)	Parabolic or Yagi antenna	For transmission to substation	
4)	Parabolic or Yagi antenna	Access to database	
5)	Discone Antenna or Brown Antenna	Communication with movile monitoring vehicle	
15	Movile Monitoring Vehicle Facilities	Mobile monitoring, investigation interfere and illegal radio stations	
1)	Movile Monitoring Vehicle		
2)	Monitoring Equipment		
3)	VHF/UHF Receiver		
4)	Movile Mounted DF Measuring Equipment		
5)	Field Strength Measuring Equipment		
6)	Others		
16	Measuring Equipment for Maintenance	Maintenance for monitoring station	