

7 Checklist for Site Preparations

This part lists the items to be checked, such as site location, power supply, grounding cables, antenna system, and transmission equipment, for site preparations.

Checking the Site Location

Table 7-1 Checklist for site location

Item	Requirements	Test Result	Remarks
Site Location	Keep the site away from the following environments: <ul style="list-style-type: none">• High temperature• Dense dust• Poisonous gases• Flammable or explosive objects• Electric substation• Radar station• Radio station• Environment with unstable voltage		
	Keep the site away from the places where there is frequent quake, strong noise, or pollution source. While designing the project, consider hydrographic, geological, seismic, power supply, and transportation factors. Select a site that meets the engineering and environmental requirements for the telecom equipment.		
	Keep the site away from stagnant water. A place with high sea level is preferred.		

Item	Requirements	Test Result	Remarks
	Keep the site away from the places where epiphyte and mildew are easy to reproduce, or where there are many mice.		
	Keep the site at least 500 m (1640.4 ft.) away from the seaside.		
Grounding network	The grounding grid is installed, and the grounding resistance is equal to or less than 10 ohms.		

Checking the Power Supply System

NOTE

Before checking the power supply system, ensure that the cabinet is grounded.

Table 7-2 Checklist for the power supply system

Item	Requirements	Test Result	Remarks
DC power supply	<p>The DC power supply is ready for use.</p> <ul style="list-style-type: none"> • -48 V DC power supply: -40 V DC to -60 V DC • -48 V power supply: -40 V DC to -60 V DC • +24 V DC power supply: +23 V DC to +29 V DC 		
DC power supply	The DC power supply is ready for use.		
DC grounding	The working ground of the DC power distribution cabinet is connected directly to the protection ground of the equipment room.		
Alarms for power supply fault	Alarms are generated when the power is cut off or a fault arises.		

Checking the Grounding Cables

Table 7-3 Checklist for the grounding cables

Item	Requirements	Test Result	Remarks
Main grounding bar and branch grounding bar	Keep the main grounding bar and the branch grounding bar close to each other, and ensure that the grounding cables are thick.		
Grounding resistance	The joint grounding resistance is equal to or less than 10 ohms.		
Grounding cable entrance	The grounding cables should be led to the power distribution cabinet or power distribution box.		

Checking the Antenna System

Table 7-4 Checklist for the antenna system

Item	Requirements	Test Result	Remarks
Tower	The tower is ready for use. The installation of the lightning arrester meets the requirements.		If tower is not used, skip this item.
Outdoor cabling ladder	The outdoor cabling ladder is ready for use.		
	The cabling frame or cabling bridge meets the requirements.		
Antenna stand used when antenna is installed on roof	The position of the antenna stand is proper.		
	The antenna stand is already installed.		
	The stand is suitable for the antenna.		
	The antenna stand meets the requirements of bearing capacity and wind load.		
Outdoor cabling frame	The outdoor cabling ladder is ready for use.		
	The outdoor cabling frame is made of proper material.		
	The outdoor cabling frame is properly grounded.		

Checking the Transmission System

Table 7-5 Checklist for the transmission system

Item	Requirements	Test Result	Remarks
Cabling trough	Cabling Trough		
DDF	The DDF is ready for use. The installation position of the DDF is proper.		
Trunk cables	Overhead mounting should not be used. If overhead mounting cannot be avoided, use double-layer cables or use cables with metallic sheath. The cables must be connected to grounding bars securely.		
Optical fiber ODF	The optical transmission is ready for use. The ODF or fiber distribution box is installed. Optical fibers are interconnected.		
Transmission system	The transmission system is already tested and meets the engineering requirements.		