

## **ABSTRAC**

*Survey is a method of checking equipment that is carried out regularly to ensure that the device is in good condition and functioning properly. BTS Base Transceiver Station is a telecommunications infrastructure that facilitates wireless communication between communication devices and network operators. To transmit or receive signals, BTS towers use an antenna as a medium. Microwave Antenna, when we encounter a BTS tower there must be one part that looks like a tambourine drum, that's what a microwave antenna means. Its function is to receive and transmit radio waves from BTS to BSC or from BTS to BTS. Sectoral antenna is a type of directional microwave antenna with sector-shaped radiation pattern, this antenna is usually used to access point to point to multi point. This antenna can reach 6-8 km. RRU Radio Remote Remote RF unit for outdoor installation, the function of the RRU is to direct the IQ modulation technique, which is directly implemented on the transmission channel, modulating the baseband signal to the RF signal. After being filtered and amplified, the RF signal is transmitted to the antenna via a duplexer. There are 3 types of RRU, namely RRU 3853 (UMTS), RRU 3953 (DCS & LTE), RRU 3971 (DCS + LTE + UMTS).*

*Keywords: Survey, BTS (Base Transceiver Station), microwave antenna, sectoral antenna, RRU (Radio Remote Unit)*