

**ABSTRACT**

*The development of technology is growing rapidly, especially in the field of telecommunications. This results in demands for a more effective and efficient life. the selection of devices installed on the base transceiver station must be provided with the network requirements. The use of single band antennas that are only capable of transmitting and receiving signals at one frequency has begun to be replaced with multiband antennas that are capable of transmitting and receiving signals at several frequencies. So that it becomes more effective and efficient in network optimization at the Base Transceiver Station (BTS). The antenna itself is a telecommunications device that functions as an intermediary where it sends or receives signals, there are 2 types of antennas used, namely sectoral and omnidirectional. PT. Poca Network Solutions is a subsidiary of PT. Poca Group which is engaged in telecommunications with various services such as source site installation or repair (OMC). From the installation stage, the VSWR values got 111 and 113 with successfull information. From the results of the VSWR it was included in the good category, and the site was successful on air or it could be stated that the site at Harapan Depok\_TB was able to provide services to MS, and also could communicate with each other between BTS.*

*Keywords: Multiband, Sectoral, BTS, VSWR*