

## ABSTRACT

Very High Bit Rate Digital Subscriber Line (VDSL) were a technology that use for conventional telephone network to improve the capability of copper telephone network so it can access broadband communication. The services that included are voice, data, and video or used to say ass triple play service. VDSL has different bandwidth between Upstream and Downstream, the deference is 52 Mbps for downstream and 6,4 Mbps for the upstream. The coverage of VDSL itself is relative short, between 300 – 1500 m. With the characteristic this bandwidth, the use of Bandwidth can be more efficient.

In this final project explain about planning a VDSL technology at Sentosa International Hospital. The planning also encloses parameters electricity Jarlokat such as continuity, attenuation, loop resistance, isolation resistance, and SNR for knowing the best point use of VDSL in JARLOKAT, also the coverage of the VDSL itself, mount of user, configuration VDSL for triple play service, and analyze the corresponded between the parameters and quality of throughput from the triple play service. The planning is use for giving a satisfaction service to all people that use it.

The results of the measurements use a SLT 22 device show that 70 % of the parameters electricity JARLOKAT has compatible for the use of VDSL technology. And the planning only does in one telephony line which is V051P037-115 cable.

Key Word: VDSL, Triple Play.