ABSTRACT

Bandung Government is a government agency that has a work program and the obligation to take care of all the needs of the community in the area of Bandung regency. One of its programs is to provide services to the public in the field of communication and informatics. Institutions that have these basic duties in Bandung Regency Government is the Office of Communications, Informatics, and Statistics (DISKOMINFO). DISKOMINFO has the main task of implementing specific regional policy-making in the field of technology, by managing Public Information, Public Communication, Information and Communication Technology, e-Government Services, Statistics and Encoding.

Based on the needs of community services, the Bandung District Government data center has a Long Term Plan (LTP) managed by the Office of Communications (DISKOMINFO), Informatics and Statistics for a five year development period starting from 2016-2020, the plan focuses on adding the number of devices aimed at improving services Information Technology to the people of Bandung Regency. Therefore, a rack development plan and good storage media are needed to meet the needs of the community in accordance with the long-term plan. In the design of racking system and storage structure for data center refers to TIA-942 Standard and also use PPDIOO Life-Cycle Approach method which focuses on three initial stages, namely prepare, plan, and design. This method is chosen because in accordance with the Government of Bandung regency in the development of data center gradually until the implementation, operate, and optimize in the long term.

The design of racking system and storage structure according to TIA-942 Standard for Communications, Informatics, and Statistic Office of Bandung Regency Government becomes the end result of this research. The results of this design in the form of the concept of shelf and storage structure as needed.

Keywords: *Data center,* PPDIOO *Life- Cycle Approach, Standard* TIA-942, *Racking system, Storage Structure*.