ANALYSIS OF ALTERNATIVE SELECTION BOARD CEILING DESIGN OFFICE BANK IN SURABAYA

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ABSTRACT

Design for construction and renovation project office on the 4th floor IT Division PT. Regional Development Bank in Surabaya, the construction requires a level of professional and high quality, timely, economical and efficient use of materials. On the implementation of the project, the office remained operational all activity on the Bank shall be free of noise pollution, air and the safety and risks that occur in the work environment. Workspace and the Division of Information Technology (IT) as the head office should provide rapid and integrated services in handling all clients as existing customers in all branches and sub-branches in East Java.

Design in PT BPD is a form of extreme physical and complexes that the alloy forms the basic rectangles and curved shapes. To determine the use of alternative materials are materials board with the pattern of the same module standard material used and appropriate in the market. The use of ceiling materials in the IT Division is a matter of Indonesian National Standard (SNI) as a measure of metric module has dimensions; 60x60 cm, 60X120 cm or 120x240 cm. Designs should consider a combination of the completion of the module into space in the form or forms of outdoor space. Through the method of Analytical Hierarchy Process (AHP) to assist decision complete multi existing criteria, and the selection of materials must be lightweight and efficient structures. So the results of these
studies can be found right board material (board) for the ceiling to be used and can avoid a lot of wasted material usage.

Ceiling material design results for the IT Division of the office building project comparing alternative modules 3 type of material. Hanger With frame structure uses the framework of Holo and Cross-Tee. So the result would be more economical efficient and effective, and all materials are chosen according to the geometry of space as well as the choice of modules Medium Acoustic-Board and is the lightest.

**Keywords:** Design Material, Ceiling Material, module material