ABSTRACT

CONTRACTOR SELECTION DECISION SUPPORT SYSTEM PROJECT ON AUCTION DINAS CIPTA KARYA KABUPATEN INDRAMAYU USING METHOD AHP (*Analytic Hierarchy Process*)

BY

GIANA
10106137

Dinas Cipta Karya in local government areas of Indramayu district has the authority to perform duties under Regulation (Perda) No. 1 of 2001 and the Regional Regulation No. 7 of 2001. One of the tasks undertaken Dinas Cipta Karya is building the infrastructure and public facilities and infrastructure of governance in local government areas of Indramayu district. Contractor selection process conducted DGCK Office takes a long time. Besides presenting information on the procurement of goods / services are still done conventionally, so that the missing information about the procurement of goods and services led to the participation of the contractors (participants partners) in the auction held by the Office of public works has become less and less proportionally, so it is necessary a decision support system.

. In the development process of decision support system for selecting the contractor on the auction Dinas Cipta Karya using data analysis techniques with methods of software development in a waterfall. For the system data stream method use structure method that is using DFD (Data Flow Diagram) in depicting functional model and ERD (Entity Relationship Diagram) to depict the standard data.Untuk model assessment criteria using AHP (Analytic Hierarchy Process) and MAUT (Multi Attribute Utility Theory) with pre-qualification and past-qualification.

The results of this study inform the auction data, data ainwijiing, and bidders who pass the prequalification stage and post-stage. The test system consists of alpha testing where this test using black box testing method that focuses on functional requirements and software beta test is test of field by giving questionnaires to the users in the Technical Section of Survey and Planning Office Building Notices of Work with a question referring to the final destination. After alpha and beta testing, can be deduced that the functionality of the system is to produce the output as expected and the user can use it with ease.

.

Keywords: Contractors, Auctions, Decision Support Systems, DFD, ERD, waterfall method, AHP, MAUT.