

ABSTRAK

Judul : Analisis Faktor Keterlambatan Pelaksanaan Proyek Pembangunan Infrastruktur Pascapanen Modern Rice Milling Plant (MRMP) BULOG Ditinjau dari Pengelolaan Detail Engineering Design (DED), Nama :Lintang Purnomo, NIM : 41116110108, Dosen Pembimbing : Prihadmadi Anggoro Seno, S.T., M.T, 2021.

Salah satu proyek EPC (Engineering, Procurement, and Contruction) yang sedang berjalan saat ini adalah proyek milik Perum BULOG yaitu Pembangunan Infrastruktur Pascapanen Modern Rice Milling Plant (MRMP) yang berlokasi di di desa Pangulah, Karawang timur, Jawa barat. Pelaksanaan proyek ini mengalami keterlambatan yaitu pada kondisi behind schedule sehingga penelitian ini dilakukan untuk menganalisis salah satu faktor penyebabnya yaitu pengelolaan DED (Detail Engineering Design).

Penelitian dilakukan dengan mendata jumlah gambar DED yang mengalami keterlambatan berdasarkan schedule DED. Selanjutnya pengambilan data dilakukan dengan kuisioner tahap I dari para pakar dilanjutkan dengan kuisioner tahap II terhadap 33 orang yang menjadi sampel penelitian. Data yang diperoleh didasarkan atas variabel unsur dalam pen yusunan DED yaitu tahap konseptual desain (X_1), tahap basic desain (X_2), tahap detail engineering (X_3), tahap pengajuan dan persetujuan (X_4) dan waktu pelaksanaan proyek (Y). Data yang diperoleh diolah menggunakan SPSS dengan uji validitas, uji reliabilitas, analisis regresi, analisis koefisien korelasi, analisis koefisien determinasi, uji t dan uji F.

Hasil penelitian menunjukkan bahwa pengelolaan DED berpengaruh signifikan terhadap keterlambatan proyek. Secara parsial variabel tahap konseptual desain (X_1), tahap basic desain (X_2), tahap detail engineering (X_3), tahap pengajuan dan persetujuan (X_4) berpengaruh signifikan terhadap keterlambatan waktu pelaksanaan proyek pembangunan MRMP Bulog di Karawang (Y).

Kata Kunci : EPC, Detail Engineering Design, Keterlambatan Proyek

ABSTRACT

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One of the EPC (Engineering, Procurement, and Construction) projects currently underway is a project belonging to Perum BULOG, namely the Postharvest Infrastructure Development of the Modern Rice Milling Plant (MRMP) which is located in Pangulah village, East Karawang, West Java. The implementation of this project experienced delays, namely behind schedule conditions so this research was conducted to analyze one of the factors causing it, namely the management of DED (Detail Engineering Design).

The study was conducted by recording the number of delayed DED images based on the DED schedule. Furthermore, data collection was carried out using a phase I questionnaire from the experts, followed by a phase II questionnaire for 33 people who became the research sample. The data obtained is based on the element variables in the preparation of the DED, namely the conceptual design stage (X1), the basic design stage (X2), the detailed engineering stage (X3), the submission and approval stage (X4) and the project implementation time (Y). The data obtained were processed using SPSS with validity test, reliability test, regression analysis, correlation coefficient analysis, coefficient of determination analysis, t test and F test.

The results showed that the management of DED had a significant effect on project delays. Partially, the variables of the conceptual design stage (X1), the basic design stage (X2), the detail engineering stage (X3), the submission and approval stage (X4) have a significant effect on the delay in the implementation time of the Bulog MRMP development project in Karawang (Y).

Keywords: EPC, Detailed Engineering Design, Project Delay