INTISARI

HIKMATUL HASANAH, 2021, Analisis *Green Construction* pada Proyek Gedung *Teaching Industry Learning Center* (TILC) Universitas Gadjah Mada Menggunakan Model *Assessment Green Construction* (dibimbing oleh Ir. Fathi Basewed, M.T)

Pembangunan gedung dengan konsep *green building* di Indonesia saat ini berkembang secara pesat dan menjadi target yang ingin dicapai. Dalam rangka mewujudkan konsep *green building* harus disertai dengan konsep *green construction* agar tidak memberikan dampak negatif terhadap lingkungan. *Assessment* dalam penerapan *green construction* diperlukan guna mengawal pembangunan gedung dengan konsep *green building.*

Penilaian *green construction* pada Proyek Gedung TILC menggunakan Model *Assessment Green Construction* yang dibuat dan dikembangkan oleh Ervianto. Nilai *Green Construction* (NGC) yang dihasilkan digunakan sebagai dasar evaluasi penerapan *green construction* di Proyek Gedung TILC. Metode pengambilan data menggunakan kuesioner kepada kontraktor dan konsultan pengawas, hasil kuesioner diolah menggunakan metode *Analytic Hierarchy Process* dengan bantuan *software Super Decisions*. Terdapat 7 aspek, 16 faktor, dan 142 indikator *green construction* yang dinilai.

$NGC_{eksisting}$ yang didapatkan oleh Proyek Gedung TILC sebesar 14,99. Capaian $NGC_{eksisting}$ 68,38% terhadap NGC_{ideal} (21,92) dan 96,90% terhadap $NGC_{terbaik}$ (15,47). Capaian terendah pada Aspek Manajemen Lingkungan Bangunan pada faktor Pelatihan bagi Subkontraktor dengan capaian 50%. Selanjutnya Aspek Kualitas Udara dan Kenyamanan pada faktor Kualitas Udara Tahap Konstruksi dengan capaian 56% juga pada faktor Pemilihan dan Operasional Peralatan Konstruksi dengan capaian 63%.

Kata kunci: green construction, Model *Assessment Green Construction, Analytic Hierarchy Process*

ABSTRACT

HIKMATUL HASANAH, 2021, *Green Construction Analysis on Project Teaching Industry Learning Center (TILC) Gadjah Mada University Using Model Assessment Green Construction (Supervised by Ir. Fathi Basewed, M.T)*

Building construction with the green building concept in Indonesia is currently growing rapidly and becoming a target to be achieved. To realize the green building concept, it must be accompanied with green construction, so it does not have a negative impact on the environment. Assessment and evaluation in green construction is needed to control the construction with the green building concept.

Assessment for green construction in TILC Building Project uses Model *Assessment Green Construction by Ervianto. Result of green construction used to evaluate green construction in TILC Building Project. The data collection method used a questionnaire to contractors and consultants, the results of the questionnaire were processed using the Analytic Hierarchy Process method with Super Decisions software. There are 7 aspects, 16 factors, and 142 green construction indicators assessed.*

$NGC_{eksisting}$ in TILC Building Project is 14,99. The achievements of $NGC_{eksisting}$ 68,38% to NGC_{ideal} (21,92) and 96,90% to $NGC_{terbaik}$ (15,47). The lowest achievement in the Building Environmental Management Aspect on the Training for Subcontractors with value 50%. Furthermore, the Air Quality and Comfort Aspects on Air Quality in the Construction Phase with value 56% also on the Selection and Operational of Construction Equipment with value 63%.

Keywords: green construction, Model *Assessment Green Construction, Analytic Hierarchy Process*