ABSTRAK

Berdasarkan data kependudukan kabupaten sleman, Kecamatan Depok memiliki jumlah penduduk paling banyak dibandingkan dengan kecamatan lainnya yaitu mencapai 130.659 jiwa (Slemankab.go.id). Salah satu penyebab menumpuknya jumlah penduduk di Kecamatan Depok adalah banyaknya pendatang baru yang berdomisili di daerah ini.

Pada kawasan Kecamatan Depok, terdapat beberapa pilihan hunian bagi para pendatang baru seperti asrama mahasiswa yang diperuntukan khusus bagi mahasiswa, kost, wisma, kontrakan hingga rumah pribadi. Tak jarang hunian tersebut jauh dari kata layak huni. Demi mencegah degredasi kualitas lingkungan di kawasan Maguwoharjo, menjadikan perancangan *High-Rise Apartment* menggunakan pendekatan konsep *Green Building.*

Green building (bangunan hijau) didefinisikan sebagai bangunan yang meminimalkan dampak lingkungan melalui konservasi sumber daya dan memberikan kontribusi kesehatan bagi penghuninya. Beberapa aspek utama bangunan dengan konsep *green building* antara lain *Material, Energi, Air,* dan *Kesehatan. Berdasarkan aspek tersebut, perancangan Apartemen* di kawasan Maguwoharjo meliputi pemanfaatan material dan penghematan penggunaan air. Berdasarkan penjelasan yang dipaparkan di atas dapat ditarik kesimpulan bahwa bangunan memiliki kontribusi cukup besar terhadap degradasi kualitas lingkungan namun memiliki potensi besar pula untuk memperbaiki kualitas lingkungan.

Maka dari itu dalam perancangan *High-Rise Apartment* dengan menggunakan konsep *Green Building berdasarkan penekanan* terhadap aspek efisiensi dan konservasi energi dan konservasi air dapat menjadi solusi kebutuhan tempat tinggal baru yang layak dan tidak berkontribusi menambah kerusakan lingkungan kawasan Depok dengan menawarkan rancangan *High-Rise Apartment* yang mempertimbangkan orientasi bangunan, shading, selubung, bukaan, penghijauan dan penggunaan kembali air hujan.

Kata kunci : Maguwoharjo, Apartemen, *Green Building*, Air, Energi.

ABSTRAK

Based on population data of sleman regency, Depok District has the highest number of population compared to other sub-districts that reach 130.659 people (Slemankab.go.id). One of the causes of population buildup in Depok district is the number of newcomers living in this area.

In Depok District, there are several residential options for newcomers such as student dormitory dedicated to students, boarding house, rented house, rented house and private house. Not infrequently the occupancy is far from the word habitable. In order to prevent the degradation of environmental quality in the Maguwoharjo area, the design of High-Rise Apartment uses the Green Building concept.

Green building is defined as a building that minimizes environmental impact through the conservation of resources and contributes health to its inhabitants. Some of the main aspects of building with green building concept include Material, Energy, Water, and Health. Based on these aspects, the design of apartments in the Maguwoharjo area includes the use of materials and water use savings. Based on the explanation described above can be concluded that the building has a significant contribution to the degradation of environmental quality but has great potential also to improve the quality of the environment.

Therefore, in designing High-Rise Apartment using Green Building concept based on the emphasis on efficiency and energy conservation and water conservation aspects, it can be a solution to the need for a decent new residence and does not contribute to the environmental damage of the Depok area by offering the High-Rise Apartment design considering the orientation of buildings, shading, sheathing, openings, reforestation and reuse of rainwater.

Keywords: Maguwoharjo, Apartment, Green Building, Water, Energy.