

INTISARI

Tanaman merupakan salah satu elemen lunak yang memegang peranan penting sebagai penyusun suatu lanskap taman. Tanaman tidak hanya dapat menghasilkan produksi, tetapi juga dapat menjadi layanan ekosistem untuk meningkatkan kualitas estetika suatu lanskap. Penelitian ini bertujuan untuk mengetahui keanekaragaman tanaman sebagai penyusun fungsi estetika lanskap di taman Hotel Hyatt Regency Yogyakarta (HHRY), mengetahui kualitas visual melalui penilaian estetika lanskap taman HHRY, dan mengetahui kondisi iklim mikro di taman HHRY. Pengumpulan data dilaksanakan pada bulan Januari-Maret 2022 di taman HHRY. Pengambilan data dilakukan dengan metode survei menggunakan metode *purposive sampling* dengan membagi taman menjadi lima zona, yaitu Zona A (Area Penerima), Zona B (Area Layanan Tamu), Zona C (Area Fasilitas 1), Zona D (Area Fasilitas 2), dan Zona E (Area Golf). Setiap zona kemudian dianalisis berdasarkan jenis, indeks keanekaragaman jenis, fungsi tanaman, pendugaan keindahan menggunakan metode *Scenic Beauty Estimation* (SBE). Selanjutnya iklim mikro dianalisis untuk mengetahui kondisi lingkungan taman HHRY. Hasil penelitian menunjukkan bahwa lima zona pengamatan di HHRY memiliki indeks keanekaragaman jenis tanaman yang tinggi. Interval nilai SBE yang diperoleh adalah 0,0 – 169,75. Nilai SBE tersebut dikelompokkan dalam tiga kategori kualitas estetika menggunakan metode kuartil, yaitu kualitas estetika rendah (nilai SBE $\leq 101,91$), kualitas estetika sedang (rentang nilai $101,91 < \text{nilai SBE} < 147,25$), dan kualitas estetika tinggi (nilai SBE $\geq 147,25$). Nilai SBE tinggi diperoleh pada titik pengamatan 13 (169,76) pada Zona C, titik pengamatan 12 (165,23) pada Zona B, dan titik pengamatan 5 (160,40) pada Zona A. Nilai SBE sedang diperoleh pada titik pengamatan 22 (129,61) pada Zona E dan titik pengamatan 15 (122,93) pada Zona D. Nilai SBE rendah diperoleh pada titik pengamatan 2 (73,23) pada Zona A, titik pengamatan 8 (63,48) pada Zona B, dan titik pengamatan 4 (0) pada Zona A. Kondisi iklim mikro di taman HHRY menunjukkan rentang nilai rerata suhu udara pagi hari 29,26°C - 34,26°C, siang hari 34,14°C - 41,50°C, dan sore hari 28,76°C - 32,78°C. Rentang nilai rerata kelembapan udara pagi hari 61,44% - 77,24%, siang hari 46,19% - 77,24%, dan sore hari 62,96% - 71,89%. Rentang nilai rerata kecepatan angin pagi hari 0 – 0,53 m/s, siang hari 0,40 – 1,77 m/s, dan sore hari 0,18 – 1,53 m/s. Rentang nilai rerata intensitas cahaya pagi hari 18.200 – 60.625 lux, siang hari 49.240 – 99.218 lux, dan sore hari 1.655 – 13.172 lux. Kondisi iklim mikro ini sesuai untuk tanaman dan memberi kenyamanan bagi manusia yang berada di sekitarnya.

Kata kunci: iklim mikro, keanekaragaman jenis, lanskap taman, *Scenic Beauty Estimation* (SBE), tanaman

ABSTRACT

Plants are one of the soft materials that play an essential role as a constituent of a garden landscape. Plants can not only produce products but can also be an ecosystem services to improve the aesthetic quality of a landscape. This study aims to determine the diversity of plants as a constituent of the aesthetic function of the landscape in the Hyatt Regency Yogyakarta (HHRY) hotel garden, to determine the visual quality through the aesthetic assessment of the HHRY garden landscape, and to determine the microclimate conditions in the HHRY garden. Data collection was carried out in January-March 2022 at HHRY garden. Data were collected by survey method using the purposive sampling method by dividing the park into five zones, namely Zone A (Welcome Area), Zone B (Guest Service Area), Zone C (Facility Area 1), Zone D (Facility Area 2), and Zone E (Golf Area). Each zone was then analyzed based on species, species diversity index, plant function, and beauty estimation using the Scenic Beauty Estimation (SBE) method. Furthermore, the microclimate was analyzed to determine the environmental conditions of the HHRY garden. The results showed that the five observation zones in HHRY had a high index of plant species diversity. The SBE value interval obtained is 0.0 – 169.75. The SBE scores were grouped into three categories of aesthetic quality using the quartile method, namely low aesthetic quality (range 101.91), moderate aesthetic quality (range $101.91 < \text{SBE} < 147.25$), and high aesthetic quality (range value 147.25). High SBE values were obtained at observation points 13 (169.76) in Zone C, observation points 12 (165.23) in Zone B, and observation points 5 (160.40) in Zone A. Medium SBE values were obtained at observation points 22 (129.61) in Zone E and observation point 15 (122.93) in Zone D. Low SBE values were obtained at observation point 2 (73.23) in Zone A, observation point 8 (63.48) in Zone B, and observation point 4 (0) in Zone A. Microclimate conditions in the HHRY garden show the average value of the air temperature in the morning 29.26°C - 34.26°C, during the day 34.14°C - 41.50°C, and in the afternoon 28.76°C - 32.78°C. The average value of humidity in the morning is 61.44% - 77.24%, 46.19% - 77.24% in the afternoon, and 62.96% - 71.89% in the afternoon. The range of average wind speed is 0 – 0.53 m/s in the morning, 0.40 – 1.77 m/s in the afternoon, and 0.18 – 1.53 m/s in the afternoon. The average value of light intensity in the morning is 18,200 – 60,625 lux, during the day 49,240 – 99,218 lux, and in the afternoon 1,655 – 13,172 lux. These microclimatic conditions are suitable for plants and provide comfort for humans around them.

Keywords: garden landscape, microclimate, plants, Scenic Beauty Estimation (SBE), species diversity