

INTISARI

PENGUKURAN TARAF INTENSITAS KEBISINGAN PAMERAN DI JOGJA EXPO CENTER MENGGUNAKAN *SOFTWARE VISUAL* ANALYSER

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Telah dilakukan pengukuran taraf intensitas kebisingan di tiga pameran yang berbeda yaitu, YOGYAKOMTEK, KOSTUMFEST, dan GRAFIKA. Pengukuran taraf intensitas kebisingan menggunakan *Software Visual Analyser* yang telah dikalibrasi menggunakan *Sound Level Meter*. Pengambilan data dilakukan selama dua hari dengan dua lokasi berbeda yaitu di dalam *hall* dan luar *hall*, kemudian dibagi dalam tiga sesi waktu pagi, sore, dan malam hari. Data yang diperoleh, diolah dan dibandingkan dengan ketentuan Menteri Kesehatan tentang ambang batas yang diperbolehkan di Zona C yaitu perkantoran, pertokoan, perdagangan, pasar dan sejenisnya sebesar 60 dB(A). Untuk lokasi di luar *hall*, batas kebisingan yang telah melebihi ambang terjadi pada saat malam hari. Pameran YOGYAKOMTEK ($L_{Aeq} \pm \Delta L_{Aeq}$) = 71 ± 1 dB(A), pameran KOSTUMFEST ($L_{Aeq} \pm \Delta L_{Aeq}$) = 63 ± 1 dB(A) dan GRAFIKA ($L_{Aeq} \pm \Delta L_{Aeq}$) = 63 ± 1 dB(A). Sedangkan untuk lokasi di dalam *hall*, ketiga pameran telah melebihi ambang batas saat sore hingga malam hari. Taraf kebisingan sinambung YOGYAKOMTEK sore hari ($L_{Aeq} \pm \Delta L_{Aeq}$) = 68,6 ± 0,9 dB(A) dan malam hari ($L_{Aeq} \pm \Delta L_{Aeq}$) = 78,5 ± 0,7 dB(A), KOSTUMFEST sore hari ($L_{Aeq} \pm \Delta L_{Aeq}$) = 62 ± 2 dB(A) dan malam hari ($L_{Aeq} \pm \Delta L_{Aeq}$) = 67,4 ± 0,2 dB(A), GRAFIKA sore hari ($L_{Aeq} \pm \Delta L_{Aeq}$) = 62 ± 2 dB(A) dan malam hari ($L_{Aeq} \pm \Delta L_{Aeq}$) = 67,4 ± 0,2 dB(A).

Kata kunci: Taraf intensitas kebisingan, *Software Visual Analyser*, *Sound Level Meter*

ABSTRACT

MEASUREMENT OF EXHIBITIONS NOISE LEVEL IN JOGJA EXPO CENTER USING VISUAL ANALYSER SOFTWARE

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This research has been done by measuring the noise intensity in three different exhibitions, i.e. YOGYAKOMTEK, KOSTUMFEST, and GRAFIKA. To measure the noise, the researcher uses Visual Analyser Software which has calibrated with Sound Level Meter. The data gathering was done for two days in two different locations, that is inside and outside the exhibition hall. Moreover, the data gathering was also separated into three time sections, those are in the morning, in the afternoon, and in the night. Afterwards, the data is processed and being compared with the Indonesia Health Minister's decree regarding the noise threshold allowed in Zone C, for examples offices, shops, markets, and the likes, in the amount of 60 dB(A). When outside the exhibition hall, the noise that surpassed the noise threshold happened in the night. The noise level for these three exhibitions are; YOGYAKOMTEK exhibition ($L_{Aeq} \pm \Delta L_{Aeq}$) = 71 ± 1 dB(A), KOSTUMFEST exhibition ($L_{Aeq} \pm \Delta L_{Aeq}$) = 63 ± 1 dB(A) and GRAFIKA exhibition ($L_{Aeq} \pm \Delta L_{Aeq}$) = 63 ± 1 dB(A). Whereas inside the exhibition hall, all three exhibitions have surpassed the noise threshold since the afternoon until the night. The continuous noise level of YOGYAKOMTEK in the afternoon ($L_{Aeq} \pm \Delta L_{Aeq}$) = 68.6 ± 0.9 dB(A) and in the night ($L_{Aeq} \pm \Delta L_{Aeq}$) = 78.5 ± 0.7 dB(A), KOSTUMFEST in the afternoon ($L_{Aeq} \pm \Delta L_{Aeq}$) = 62 ± 2 dB(A) and in the night ($L_{Aeq} \pm \Delta L_{Aeq}$) = 67.4 ± 0.2 dB(A), GRAFIKA in the afternoon ($L_{Aeq} \pm \Delta L_{Aeq}$) = 62 ± 2 dB(A) and in the night ($L_{Aeq} \pm \Delta L_{Aeq}$) = 67.4 ± 0.2 dB(A).

Keyword(s): Noise Intensity, Visual Analyser Software, Sound Level Meter