

## RINGKASAN

Kabupaten Sleman khususnya di wilayah Kecamatan Sleman dan Mlati merupakan wilayah dengan pertumbuhan dan perkembangan yang pesat, sehingga pemanfaatan dan pengambilan air tanah menjadi alternatif baru untuk memenuhi kebutuhan air baku. Proyeksi kebutuhan air baku diharapkan seimbang dengan ketersediaan air tanah untuk mendukung kegiatan pembangunan dan pengembangan wilayah.

Penelitian dilakukan dengan menghitung potensi air, yang berupa hujan tawanan, debit sungai, dan debit air di akuifer. Sedangkan untuk penggunaan menggunakan perhitungan Kebutuhan Domestik, Komersial, Pertanian, Perikanan, Peternakan, Industri serta Pemeliharaan sungai.

Berdasarkan data potensi air di Kecamatan Mlati dan Sleman dalam penelitian ini, Potensi air di Kecamatan Mlati dan Sleman termasuk dalam kategori sedang yakni berkisar antara 0 – 133 juta m<sup>3</sup> pertahun untuk tiap Kecamatannya yakni dengan masing-masing potensinya 43.129.279m<sup>3</sup> dan 49.802.108,63m<sup>3</sup>.

Berdasarkan hasil penelitian Penggunaan air pertahunnya hanya menggunakan 65,54% dari potensi air di Kecamatan Mlati. Adapun di Kecamatan Sleman menggunakan 57,2% dari potensi air. Berdasarkan data sisa air tahunan maka untuk potensi air yang belum terpakai di Kecamatan Mlati tergolong potensi air yang sedang, yaitu 14.864.012,78m<sup>3</sup> air dalam hal ini berada diantara 0 m<sup>3</sup> sampai 133 juta m<sup>3</sup>. Sedangkan untuk sisa air di Kecamatan Sleman tergolong potensi air yang rendah yakni 21.317.006,99m<sup>3</sup> berada di antara 0 juta sampai dengan 133 juta m<sup>3</sup>.

### *Abstract*

Sleman district , especially in the District of Sleman and Mlati is a region with rapid growth and development , so that the utilization of ground water and provides a new alternative to meet the needs of the raw water . Expected raw water demand projections by the availability of soil water to support development activities and regional development .

The study was conducted by calculating the potential of water , in the form of rain catchment , river discharge , and the discharge of water in the aquifer. As for the use of the calculation using the Domestic Needs , Commercial , Agriculture , Fisheries , Livestock , Industrial and Maintenance river .

Based on the data potential of water in the district of Sleman Mlati and in this study , the water potential in the district of Sleman Mlati and included in the medium category which ranges between 0-133 million m<sup>3</sup> per year for each of the sub-district with each potential 43.129.279m<sup>3</sup> and 49,802,108 , 63m<sup>3</sup> .

Based on the results of water usage per year is only 65.54 % of the potential use of water in the District Mlati . As in the district of Sleman using 57.2 % of the water potential . Based on data for the remainder of the annual water potential of unused water in the District Mlati water being classified as potential , ie 14,864,012.78 m<sup>3</sup> of water in this case is between 0 m<sup>3</sup> to 133 million m<sup>3</sup> . As for the rest of the water in the district of Sleman relatively low water potential which is 21,317,006.99 m<sup>3</sup> be between 0 up to 133 million m<sup>3</sup> .