

## Penyediaan infrastruktur pengelolaan persampahan di lingkungan permukiman kumuh kota bandung / Veronica Kusumawardhani, Hadi Sutjahjo, Indarti Komala Dewi, Naomi Fransiska Panjaitan

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### Abstrak

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Growth today of slums is a challenge of urbanization. The slums characterized by limited basic housing infrastructure, including the lack of adequate waste management infrastructure. Bandung also faces the challenge, so that three areas are selected as representatives of slum areas as research objects. There are the areas with three typologies of slums: Tamansari (heavy), Babakan Ciamis (medium), and Cihaurgeulis (light). Analysis of the existing condition of waste management is done by calculating the Soil Quality Index or Indeks Kualitas Tanah (IKT). The possibility of waste management infrastructure improvement is done by using Analytic Hierarchy Process (AHP), which helps decision making by priorities comparison from experts in the field of environmental management. IKT calculation results show that the worst soil quality is Tamansari with IKT value of 18.5, the IKT of Babakan Ciamis value 47.5, and Cihaurgeulis best at IKT value of 73.5. The analysis with AHP shows that the best waste management infrastructure for all three areas is by providing composting unit to manage organic waste and waste bank to manage the inorganic. A respective number of units required is 20 units for Tamansari, 8 units for Babakan Ciamis, and 11 units for Cihaurgeulis.