

# **Automatic Hand Washing Equipped With Voice to Prevent Outbreaks of Covid 19 In The Kindergarten Pembina Kecamatan Bantul**

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## **ABSTRACT**

The objectives of this activity include: (1) producing automatic hand washing equipped with voice; (2) obtaining good performance from automatic hand washing equipped with voice; and (3) obtaining user ratings of automatic hand washing products equipped with voice to prevent the outbreak of Covid 19 that were installed in The Kindergarten Pembina Kecamatan Bantul.

To achieve the first goal, it was carried out through a development method with the following steps: needs analysis, designing, and manufacturing of automatic hand washing equipped with voice. To achieve the second goal, it was carried out by the method of testing the performance of automatic hand washing equipped with voice, while the achievement of the third goal was carried out through the method of filling out a questionnaire carried out by users to assess automatic hand washing equipped with voice installed in the Kindergarten Pembina Kecamatan Bantul.

The results of the activity showed: (1) automatic hand washing equipped with voice to prevent the outbreak of Covid 19 was produced in The Kindergarten Pembina Kecamatan Bantul, with a sink holder measuring (160x57x60) cm<sup>3</sup>, and mirroring board measuring (160x85) cm<sup>2</sup>; (2) automatic hand washing equipped with voice have good performance, which is indicated by 100% of the job description as well as planned and the distance range and response time of each sensor are classified as good; and (3) the assessment carried out by the Head of The Foundation, Head of Kindergarten, Teachers, Employees, and Parents of students of The Kindergarten Kecamatan Bantul on automatic hand washing equipped with voice, obtained the percentage of the overall score against the maximum score of 91.88% which is classified as very good.

Kata Kunci: *automatic hand washing, voice, Covid 19*