

Journal of Agricultural Engineering Biosystem Engineering (J-ABE) is a scientific publication that contains the results of research, development, studies or ideas in the field of agricultural engineering. The scope of writing scientific papers in this journal includes: power and agricultural machinery, agricultural cultivation, renewable energy, bioprocessing of agricultural products, environmental civil engineering, agricultural irrigation, robotics, automatic control in agriculture, design of agricultural machinery and tools, agricultural ergonomics, and nanotechnology. J-ABE is published 4 (four) times a year in March, June, September and December. J-ABE is open to the public, researchers, students, practitioners and observers in the world of agricultural engineering.

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## **Editorial Introduction**

By giving thanks to Allah the Almighty, the Journal of Agricultural Biosystem Engineering (J-ABE) Volume 1 No 4, December 2022 can be published. This edition contains 18 (eighteen) articles which are scientific papers from various fields of study in the world of Agricultural Engineering which includeing cultivating, waste processing, mapping, renewable energy, design, and bioprocess technology.

On this occasion, we would like to express our deepest gratitude to the authors for their contributions to J-ABE and to the reviewers of this journal for their participation in improving the quality of scientific papers published in this edition.

In conclusion, we hope that this J-ABE will benefit society and make a meaningful contribution to the development of science and technology, especially in the field of agricultural engineering.

**Editor of J-ABE**

**Jurnal Agriculture and Biosystem Engineering (J-ABE)**Vol. 1 No. 4, December 2022

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**Manuscripts:** The editors accept manuscripts/scientific writings in Indonesian or English, with the following restrictions:

- a. The manuscript is typed on A4 size paper (210mm x 297mm) with 2 spaces and Times New Roman 12pt font size. The distance of the left, right, top and bottom edges is 3 cm each. The length of the manuscript does not exceed 20 pages including abstract, bibliography, tables and figures. All tables and figures are placed separately at the end of the manuscript (not inserted in the manuscript) with the numbering as stated in the manuscript. Manuscripts are arranged in the following order: Title; The author's name is accompanied by a footnote about the agency where he works; Introduction; Materials and Methods; Results and Discussion; Conclusions and recommendations; Bibliography; and attachments if needed.
- b. **Abstract** in Indonesian and English, no more than 200 words. Contains information contained in writing and easy to understand. The summary (abstract) must briefly contain the background, objectives, methods, and conclusions and which are the high light results of the research.
- c. **Introduction:** contains the background of the problems that prompted the implementation of engineering and research, citations of related and relevant previous findings, as well as the objectives of engineering or research.
- d. **Materials and Methods:** clearly explain the materials and methodologies used in the engineering or research along with the location and time of implementation, as well as the statistical analysis used. Reference is given to specific methods.
- e. **Results and Discussion:** Contains engineering or research results obtained and their relation to how these results can solve problems and their implications. The similarities and differences with the results of engineering or previous research and development prospects. Results can be presented by displaying pictures, graphs, or tables.
- f. **Conclusions and Suggestions:** contains important things from the research results and their contribution to overcoming problems as well as suggestions needed for the direction of engineering and further research.
- g. **Bibliography:** arranged alphabetically by author, in the following order and format: The author's name is preceded by family name/last name followed by the first letter of the lowercase or first name. For the second author and so on written the opposite. Example:
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