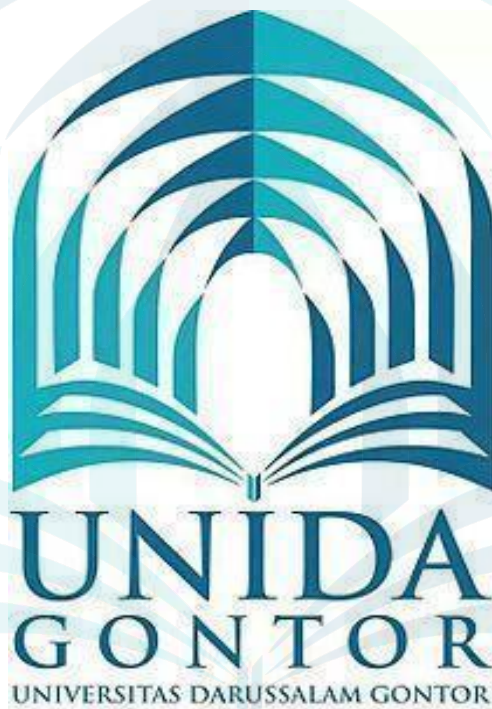


**THESIS**

**TECHNOLOGY CONVERSION OF BAMBOO WASTE  
FOR BIOCHAR PRODUCTION THROUGH PYROLISIS  
PROCESS AND ITS APPLICATION FOR REMOVAL OF  
HEAVY METAL**



**Much. Taufik Ardani**

**NIM. 422021621010**

**AGRO-INDSTRIAL TECHNOLOGY DEPARTMENT**

**SCIENCE AND TECHNOLOGY FACULTY**

**UNIVERSITY OF DARUSSALAM GONTOR**

**PONOROGO**

**2025**

## SUPERVISOR DECISION LETTER

**Honourable to**

**Dean of Science and Technology Faculty**

**University of Darussalam Gontor**

*Bismillahirrahmanirrahim*

*Assalamua'alaikum Warahmatullah Wabarakatuh*

I present this thesis written by

Name : Much. Taufik Ardani

Registered Number : 422021621010

Faculty : Science & Technology

Department : Agro-industrial Technology

Title : Technology Conversion of Bamboo Waste For Biochar  
Production Through Pyrolysis Process And Its Effect For Removal Of Heavy Metal

It has been processed and corrected to meet the practical requirement to obtain the Bachelor's Degree (S1) in the Department of Agro-industrial Technology, Science and Technology Faculty University of Darussalam Gontor. Therefore, we hope this thesis could be examined.

Hopefully, this thesis will be useful for religion, nation, and the development of an educational institution

*Wassalamu'alaikum Warahmatullahi Wabarakatuh*

UNIDA, Sya'ban 18<sup>th</sup>, 1446 H

February 17<sup>th</sup>, 2025 M

Supervisor,



Ilham Mufandi, S.T., M.Eng.

NIY. 210896

## AUTHORIZATION

*" TECHNOLOGY CONVERSION OF BAMBOO WASTE FOR BIOCHAR PRODUCTION  
THROUGH PYROLYSIS PROCESS AND ITS APPLICATION FOR  
REMOVAL OF HEAVY METAL "*

### THESIS

To fulfil some of the requirements  
To obtain a Bachelor's in Agro-Industrial Technology degree


Composed by:

Much. Taufik Ardani  
NIM: 422021621010

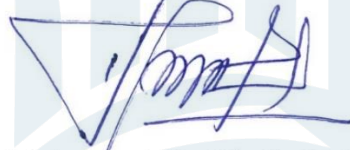
This thesis has been tested and passed on  
2 March 2025

It has been checked and approved by:


Supervisor I

  
Ilham Mufandi, S.T., M.Eng.  
NIY: 210896


Supervisor II

  
Muhammad Nur Kholis. M.Si.  
NIY: 150491

Examiner I

  
Agung Dwicahyo, S.T., M.T.  
NIY: 180642

Knowing,  
Head of Agro-Industrial Technology

  
Muhammad Nur Kholis. M.Si.  
NIY: 150491

## DECLARATION

I, hereby,

Name : Much. Taufik Ardani  
Registered Number : 422021621010  
Faculty : Science and Technology  
Department : Agro-Industrial Technology  
Title : Technology Conversion of Bamboo Waste for Biochar  
Production Through Pyrolysis Process and Its Effect for Removal of Heavy Metal

I sincerely declare that this thesis belongs to my work and not to other researchers for a different degree. Furthermore, this thesis is never published before, except for some parts with their original references.

Otherwise, if it is found that this thesis is plagiarism, I am ready to be ceased academically.

Ponorogo, 21 Sya'ban 1446 H  
20 February 2025 M  
Researcher,



Much. Taufik Ardani  
NIM. 422021621010

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UNIVERSITAS DARUSSALAM GONTOR

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2. Dean faculty of Science and Technology University of Darussalam Gontor, Al-Ustadz Haris Setyaningrum, S. Si., M. Sc.
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5. My beloved parents and entire family who always pray and support me to finish my study.
6. All of my friends and influential people in my life that I cannot mention one by one.

The researcher realizes that this final assignment is still far from perfect, due to the limited experience. Therefore, the researcher expects constructive criticism and suggestions for the perfection of this final assignment. Finally, the researcher hopes that this final assignment will be useful for readers and can become a reference and

point of reference for various parties. May Allah SWT always bestow His grace and guidance on all of us. Thank You. Wassalamu'alaikum Warahmatullahi Wabarakatu.

Ponorogo, 21 Sya'ban 1446 H

20 February 2025 M

Researcher,



Much. Taufik Ardani

NIM. 422021621010



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