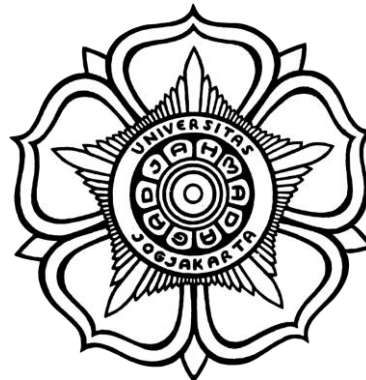


**THE EFFECT OF LAYER COMPOSITION AND AMOUNT OF  
ADHESIVE ON PHYSICAL AND MECHANICAL PROPERTIES OF  
BALAU (*Shorea spp.*) AND BAYUR (*Pterospermum spp.*) GLULAM BEAM**

**prepared to fulfill part of the requirements for obtaining a bachelor's degree  
in the Forestry Study Programme**

**UNDERGRADUATE THESIS**



**by:**

**RHATASYA KANA AZZAHRA**

**18/427454/KT/08766**

**Advisor:**

**Ir. Muhammad Navis Rofii, S. Hut., M. Sc., Ph. D.**

**FACULTY OF FORESTRY  
UNIVERSITAS GADJAH MADA**

**YOGYAKARTA**

**2024**

## APPROVAL SHEET

### THE EFFECT OF LAYER COMPOSITION AND AMOUNT OF ADHESIVE ON PHYSICAL AND MECHANICAL PROPERTIES OF BALAU (*Shorea spp.*) AND BAYUR (*Pterospermum spp.*) GLULAM BEAMS

RHATASYA KANA AZZAHRA  
NIM. 18/427454/KT/08766


Has been defended in front of the Committee and accepted as one of the requirements to obtain a Bachelor of Forestry degree.

Date: 31 July 2024


Panel of Examiner

Chief Examiner

Committee




Prof. Dr. Agr. Sc. Ir. Ragil Widyorini,  
S.T., M.T.



Oka Karyanto, S.P., M. Sc.

Advisor

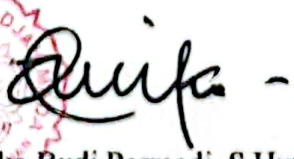


Ir. Muhammad Navis Rofii, S. Hut., M. Sc., Ph. D.

Date of Approval:..... 19 AUG 2024 .....

Approved by

Faculty of forestry Universitas Gadjah Mada  
Vice Dean for Academic and Student Affairs



Jr. Dwiko Budi Permadi, S.Hut., M.Sc., Ph.D.