

**MECHANICAL PROPERTIES OF ORIENTED STRAND BOARD (OSB)  
FROM KELEMPAYAN SPECIES WITH DIFFERENCE RESIN CONTENT  
AT 650 Kg/m<sup>3</sup>**

By

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## TABLE OF CONTENTS

| Content                    | Page |
|----------------------------|------|
| DEDICATION.....            | i    |
| ACKNOWLEDGEMENTS.....      | ii   |
| APPROVAL SHEETS.....       | iii  |
| ABSTRACT.....              | vi   |
| ABSTRAK.....               | vii  |
| LIST OF FIGURES.....       | viii |
| LIST OF TABLES.....        | ix   |
| LIST OF PLATES.....        | x    |
| LIST OF ABBREVIATIONS..... | xi   |

### CHAPTER

|            |   |           |
|------------|---|-----------|
| <b>I</b>   | <b>INTRODUCTION.....</b>                                | <b>1</b>  |
|            | 1.1 Justification.....                                  | 2         |
|            | 1.2 Objective.....                                      | 2         |
| <b>II</b>  | <b>LITERATURE REVIEW.....</b>                           | <b>3</b>  |
|            | 2.1 History Of Oriented Strand Board.....               | 3         |
|            | 2.2 Used of OSB.....                                    | 6         |
|            | 2.2.1 Sheathing.....                                    | 6         |
|            | 2.2.2 Engineered Components .....                       | 6         |
|            | 2.2.3 Shearwalls and Diaphragms.....                    | 7         |
|            | 2.2.4 Gussets for Frames and Trusses.....               | 7         |
|            | 2.2.5 Formwork .....                                    | 7         |
|            | 2.3 Industrial Manufacturing.....                       | 8         |
|            | 2.4 Species Characteristic .....                        | 10        |
|            | 2.5 Load Versus Deformation of an Oriented Strand Board | 11        |
| <b>III</b> | <b>MATERIALS AND METHODS.....</b>                       | <b>12</b> |
|            | 3.1 Treatment.....                                      | 12        |
|            | 3.2 Methodology.....                                    | 13        |
|            | 3.3 Preparation of raw materials .....                  | 14        |
|            | 3.3.1 Felling Tree.....                                 | 14        |
|            | 3.3.2 Cut To Billet .....                               | 14        |
|            | 3.3.3 Flaking.....                                      | 15        |
|            | 3.3.4 Pre-Drying.....                                   | 15        |
|            | 3.3.5 Screen.....                                       | 16        |
|            | 3.3.6 Drying.....                                       | 16        |

|  |           |
|--|-----------|
| 3.3.7 Forming Section.....                   | 17        |
| 3.3.8 Blending.....                          | 17        |
| 3.3.9 Pre-Press.....                         | 18        |
| 3.3.10 Hot Press.....                        | 18        |
| 3.3.11 Conditioning and Trimming .....       | 19        |
| 3.4 Board Testing.....                       | 20        |
| 3.4.1 Bending Test.....                      | 20        |
| 3.4.2 Internal Bond Test.....                | 21        |
| <br>   |           |
| <b>IV RESULTS AND DISCUSSION.....</b>        | <b>22</b> |
| 4.1 Result.....                              | 22        |
| 4.2 Bending Test Result.....                 | 23        |
| 4.2.1 Modulus Of Elasticity (MOE).....       | 23        |
| 4.2.2 Modulus Of Rupture (MOR).....          | 24        |
| 4.3 Internal Bond Test.....                  | 25        |
| <br>   |           |
| <b>V CONCLUSION AND RECOMMENDATIONS.....</b> | <b>27</b> |
| 5.1 Conclusion.....                          | 27        |
| 5.2 Recommendations.....                     | 28        |
| <br>   |           |
| <b>BIBLIOGRAPHY .....</b>                    | <b>29</b> |
| <b>APPENDIX .....</b>                        | <b>30</b> |
| <b>DECLARATION .....</b>                     | <b>37</b> |
| <b>VITA .....</b>                            | <b>38</b> |

## **ABSTRACT**

# **MECHANICAL PROPERTIES OF ORIENTED STRAND BOARD FROM KELEMPAYAN Spp. WITH THE DIFFERENCE RESIN CONTENT AT DENSITY 650 KG/M<sup>3</sup>**

By

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Oriented strand board (OSB) is a multi-layered board made from strand of wood of predetermines shape and thickness together with a binder. The strands in the outer-layers are aligned parallel to the board length or width, the strands in the center layer or layers can be randomly oriented or aligned, generally at right angles to the strand of the external layers. Kelempayan (*Anthocephalus chinensis*) has potentials for commercialize in OSB productions. Recovery of wood strands production has the high percentage (83.22%). It is able recommended for commercial production of OSB. OSB from Kelempayan species is has the high value of MOE and MOR in bending test and internal bond test. The new panel product is able to improve their mechanical properties and be as a substitute to other panel product such as Medium Density Fibreboard.