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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH**

Judul Jurnal Ilmiah (Artikel) : Technical and economical analysis of the use of glued laminated from combination Of apus bamboo and meranti wood as an alternative material component in timber Shipbuilding

Jumlah Penulis : 3 orang (Parlindungan Manik, **Hartono Yudo**, Berlian Arswendo A)

Status Pengusul : penulis ke-2

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- b. Nomor ISSN : ISSN Print : 0976 - 6308, ISSN Online : 0976 - 6316
- c. Vol, No., Bln Thn : Volume 9, Issue 7 (2018)
- d. Penerbit : IAEME Publication
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- g. Terindex : Scopus, Q3

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	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi jurnal (10%)	2,00	1,00	1,50
b. Ruang lingkup dan kedalaman pembahasan (30%)	6,00	6,00	6,00
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	7,00	5,00	6,00
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	6,00	4,00	5,00
Total = (100%)	21,00	16,00	18,50
Nilai Pengusul = (20% x 18,50) = 3,70			

Semarang,

Reviewer 2



Prof. Dr. Moh. Djaeni, S.T., M.Eng.
NIP. 197102071995121001
Unit Kerja : Teknik Mesin FT UNDIP

Reviewer 1



Prof. Dr. Ketut Buda Artana, S.T., M.Sc.
NIP. 197109151994121001
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c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,00			7,00
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	9,00			6,00
Total = (100%)	30,00			21,00
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Catatan Penilaian artikel oleh Reviewer :

1. Kesesuaian dan kelengkapan unsur isi jurnal:

Paper menyajikan materi dengan kelengkapan yang cukup. Journal sesuai dengan konten paper.

2. Ruang lingkup dan kedalaman pembahasan:

Cukup baik, Membahas tentang pemakaian serat bamboo sebagai pengganti lambung kapal. Ruang lingkup pembahasan meliputi tekno ekonomi kombinasi kayu meranti dan bamboo apus. Hasil menunjukkan secara ekonomi lebih murah dan kuat. Penulisan kurang terstruktur pembahasannya

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Paper ditulis berdasarkan eksperimen yang telah mengikuti kaidah SNI. Karena itu paper ini memiliki kemutakhiran data dan metodologi yang cukup baik.

4. Kelengkapan unsur dan kualitas terbitan:

Tata tulis paper masih belum cukup standard. Kualitas gambar masih tidak cukup bagus. Akan tetapi sistematika tulisan (manuscript) sudah cukup baik. Namun demikian masih perlu diupayakan perbaikan dalam aspek technical writing in English.

Surabaya, 27 September 2021
Reviewer 1



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NIP. 197109151994121001
Unit Kerja : T. Sistem Perkapalan FTK ITS

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1. Kesesuaian dan kelengkapan unsur isi jurnal:

Kesesuaian dan kelengkapan isi jurnal kurang sesuai dengan kaidah penulisan jurnal internasional. Masih ada bagian yang belum dialih bahasakan ke Bahasa Inggris.

2. Ruang lingkup dan kedalaman pembahasan:

Artikel ini berisi tentang pemakaian serta bamboo sebagai pengganti lambung kapal. Ruang lingkup pembahasan meliputi tekno ekonomi kombinasi kayu meranti dan bamboo apus. Hasil menunjukkan kekuatan masih bisa dan secara ekonomi lebih murah. Artikel ditulis kurang komprehensif, dan kurang terstruktur pembahasannya.

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Metodologi yang disajikan tidak baik, masih ada tulisan dalam Bahasa Indonesia. Nilai novelty artikel ini sangat kurang. Referensi yang digunakan hanya 12.

4. Kelengkapan unsur dan kualitas terbitan:

Kelengkapan unsur dan kualitas terbitan kurang baik. Nilai kemiripan artikel ini 8%.

Semarang,
Reviewer 2



Prof. Dr. Moh. Djaeni, S.T., M.Eng.
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Technical and economical analysis of the use of glued laminated from combination of apus bamboo and meranti wood as an alternative material component in timber shipbuilding

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Abstract

Development of glued laminated beam technology to become an alternative material of timber shipbuilding in shipping industry. In this study, laminated beam will be manufacture with combination of apus bamboo and meranti wood. The purpose of this research is to determine the value of tensile strength parallel to grin, compressive strength perpendicular to grin, influence of variation, strenght class of timber based on the regulation of BKI and the cost of manufacture with variations in the percentage of material (70% timber 30% bamboo, 60% timber 40% bamboo, 50% timber 50% bamboo,

Cited by 3 documents

Analysis of salinity from seawater on physical and mechanical properties of laminated bamboo fiber composites with an epoxy resin matrix for ship skin materials

Manik, P. , Suprihanto, A. , Sulardjaka
(2021) *International Review of Mechanical Engineering*

Technical analysis of increasing the quality of apus bamboo fiber (Gigantochloa apus) with alkali and silane treatments as alternative composites material for ship skin manufacturing

Manik, P. , Suprihanto, A. , Sulardjaka
(2020) *AIP Conference Proceedings*

Effect analysis of the direction of fiber arrangement on interfaces of laminated bamboo fiber as a construction material for wood vessel hulls

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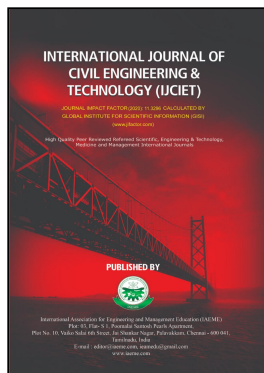
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TECHNICAL AND ECONOMICAL ANALYSIS OF THE USE OF GLUED LAMINATED FROM COMBINATION OF APUS BAMBOO AND MERANTI WOOD AS AN ALTERNATIVE MATERIAL COMPONENT IN TIMBER SHIPBUILDING

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ABSTRACT

Development of glued laminated beam technology to become an alternative material of timber shipbuilding in shipping industry. In this study, laminated beam will be manufacture with combination of apus bamboo and meranti wood. The purpose of this research is to determine the value of tensile strength parallel to grin, compressive strength perpendicular to grin, influence of variation, strenght class of timber based on the regulation of BKI and the cost of manufacture with variations in the percentage of material (70% timber 30% bamboo, 60% timber 40% bamboo, 50% timber 50% bamboo, 40% timber 60% bamboo, 30% timber 70% bamboo). This study uses standard test methods SNI 03-3399-1994 for tensile test and SNI 03-3960-1995 for compression test. The results of the research laminated beam of timber and bamboo with MC 10 - 14% and dencity of 0.73 - 0,88 gr/cm³, has an average value of tensile strength of 92,43 - 127,43 MPa and average value of compressive strength of 41,64 – 41,99 MPa. Variations with material percentage greatly affect the value of tensile strength, but it's not on the compressive strength.. According to the timber ship regulation of BKI, glued laminated of apus bamboo and meranti wood can be categorized in Strength Class II and can be used as an alternative material of timber shipbuilding. Based on the analysis cost of manufacturing, the most optimal variation is K30B70, that increased 22,49% from the price of meranti wood and 34,93 % from the price of apus bamboo.

Key words: glued laminated beam, apus bamboo, meranti wood, tensile strength parallel to grin, compressive strength perpendicular to grin, strenght class of timber.



ADAPTIVE WORKING TECHNOLOGY OF TECHNOGENIC METAL DEPOSITS AT THE PLACE OF THEIR BEDDING

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ABSTRACT

The article substantiates the provision on the application of the newest geotechnologies – the leaching of metals from various wastes of the mining and metallurgical complex and stacks of ore materials, in which special hydraulic systems are built in order to supply leaching solutions and drain productive solutions through the filter column systems. Upon condition that the diffusion dissolution time t_d in the ore stack and the leaching time t_e are equal, the heap leach process is determined to be optimal with the built-in hydrodynamic system in the stack for controlled filtration of the leaching and productive solutions.

In the article, formulas are derived for achieving the stated goal of equal time for diffusion metal dissolution, leaching time and filtration transfer of metal in a stack under the action of dynamic compression heads on the injection filters and depressive pressures on the production filters. In the stochastic formulation of this equality, a mathematical description of the adaptation criterion is given, which for a given equality condition $t_d = t_e$ reaches a maximum close to unity.

It has been established that with the increase in the head on the injection filters, which is the determining factor for heap leaching of metals, the leaching time decreases inversely with the head. At the same time, the metal concentration in the productive solution decreases, which leads to an increase in the cost of metal processing. A conclusion was made about the existence of the value of the head on the injection filters as a function of time, which ensures the maximum profit in the heap leach mine.



A COMPREHENSIVE REVIEW OF DECISION SUPPORT SYSTEMS IN CONSTRUCTION TENDER MANAGEMENT

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ABSTRACT

Decision support tools for managing construction tender are essential as assistance to both clients and contractors, who are the two main stakeholders of construction projects in making an effective and reliable decisions in order to ensure the objectives are met throughout the tendering processes. In this paper, a comprehensive review of existing research articles related to the application of decision support systems in the tendering phases has been done, with the objective of providing a state-of-the-art overview. Data were obtained from articles published from 2002 to 2018 in journals, book chapters and proceedings. The articles were categorized according to three main tendering phases i) tender specification preparation, ii) tender bidding and iii) tender evaluation, in which the decision support tools applicable to support decision makers.

Key words: Decision Support Systems, Construction, Tender Management, Procurement.

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1. INTRODUCTION

The construction industry has continued to play critical roles in economics growth for both developed and developing countries. Tender management is a core business in the construction industry. The successful execution of a construction project largely depends on fair, transparent, competitive and cost-effective tender management which can be achieved through curbing corruption and corrupt behavior [1][2][3][4][5].