DESIGN OF CONTROLLABLE PITCH PROPELLE
ON THE OFFSHORE PATROL VESSEL 80 (OPV 80)

Student Name : ALFAN DICKY FIRMAN SYAH
NRP : 4210 105 019
Department : Marine Engineering FTK – ITS
Advisor : Ir Agoes Santoso, M.Sc. M.Phil
: Edy Djatmiko, ST. MT

Abstract
Development of maritime technology in Indonesia began to see the point of progress, not least for the field of maritime transport is shipping. Therefore, many studies conducted in the shipping world. Development under review, carried out in many areas of the ship. Among others, is in propulsion technology, systems, and ship maneuvering.

On this final project, will be made a study of the design of non-conventional propulsor type controllable pitch propeller (CPP) to be applied to vessels in Indonesia. The design is done with a primary focus on the design of screw blade propeller to be applied to the CPP. During the CPP is being used in Indonesia is imported. Which raised the initiative to develop CPP products in the country.

Blade type to be used in the CPP is Wageningen B-Screw Series. On planning, CPP pitch range obtained in the P/D of 0,5 to P/D 0,872 where P / D 0,872 is the most optimum with the best matching point. At P/D 0,872, the ship can run at the full speed with engine BHPscr. Then, will come the characteristic diagram of the CPP with propeller type selected. On CPP flange planning, obtained the modulus of CPP flange equal to 3692640 mm$^3$ and then made of the blade design for that CPP.

Keywords: CPP; propeller; pitch; blade
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