



# Plagiarism Checker X Originality Report

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Selection Anti Submarine Sensor of Helicopter Using ELECTRE III Method Ahmadi<sup>1</sup> , Siswo H. Sumantri<sup>2</sup> , Okol S. Suharyo<sup>3</sup> and A. Kukuh Susilo<sup>4</sup> <sup>1</sup> Indonesian Naval Technology College, STTAL. Bumimoro-Morokrembangan, Surabaya 60187, Indonesia. 1ORCID: 0000-0002-2859-3165, 2ORCID:0000-0002-4456-5279, 3ORCID:0000-0003-4766-6662 4ORCID:0000-0002-7012-7520 Abstract Indonesian Navy (TNI AL) is one of them component for Maritime Security and Defence in activities of warfare alert, basic training and operation at sea. It needs air power to support and covered sea power.

Indonesian Naval Aviation as airpower will receive 11 helicopters to carry function about anti surface ship and submarine. The Helicopters needs sensor equipment to detect the submarine likes Magnetic Anomaly Detector (MAD), Sonobuoy, dan Dipping Sonar. The purpose this paper is giving alternatives for sensor equipments anti submarine in Helicopters at Indonesian Naval Aviation.

For gives alternative sensor equipment, this paper used ELECTRE Methode in decision making. The result of choiced sensor equipment with type of dipping sonar, according the best rank is HELRAS DS 100, FLASH-S, AN/AQS-22 ALFS, VGS-3 dan AQS-18A. Alternative 1 dipping sonar sensor L3 Comm Helras DS 100 has 1 for value toward alternative 4, with 0,99 toward alternative A3, with 0,95 toward alternative A5 and 0,86 toward alternative A2. It result by compared with Concordance Global, alternative A1 has highest rank toward all alternatives.

Alternative A3 (AN/AQS-22 ALFS) has 1 for Condordance Global value toward alternative A2 and A1, alternative A3 has 0,93 for Concordance Global value toward alternative A1, toward alternative A2 is 0,89 and alternative A5 is 0,94. So that, alternative A3 is second

choiced.

Keyword: Anti Submarine, Helicopter, Dipping Sonar, ELECTRE Method.

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