PERMODELAN HIDRODINAMIKA *BREAKWATER* PANGKALAN PENDARATAN IKAN DI PELABUHAN PERIKANAN BATUKARAS PANGANDARAN JAWA BARAT

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ABSTRAK

Kabupaten Pangandaran memiliki potensi sumber daya perikanan yang besar. Sebagian besar lokasinya merupakan pantai salah satunya pantai Batukaras. Pantai Batukaras memiliki rata-rata gelombang tinggi maka diperlukan sebuah pemecah gelombang. Penelitian ini bertujuan untuk mengevaluasi kebutuhan alur pelayaran di Batukaras dan mepresentasikan *layout* permodelan hidrodinamika Breakwater PPI Batukaras terhadap kondisi eksisting PPI Batukaras. Hasil penelitian adalah lokasi *Breakwater* memiliki elevasi HHWL 1.057 diatas permukaan laut, LLWL 1.085 dibawah permukaan laut, tinggi gelombang tertinggi 5.215 m, dan arus tertinggi 0.138 m/s yang datang dari arah tenggara. *Layout* Permodelan Hidrodinamika *Breakwater* PPI Batukaras berpengaruh terhadap kondisi eksisting dengan mampu menahan 60% arus gelombang yang datang dan meredam 27% tinggi gelombang di sekitar lokasi *Breakwater*.

Kata kunci : pelabuhan, pangkalan pendaratan ikan, *breakwater*, hidrodinamika

HYDRODYNAMIC MODELING OF BREAKWATER FISH LANDING POTS IN BATUKARAS FISHERY PORT PANGANDARAN WEST JAVA

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ABSTRACT

Pangandaran Regency has great potential for fisheries resources. Most of its locations are beaches, one of which is Batukaras Beach. Batukaras Beach has an average high wave, so a breakwater is needed. This study aims to evaluate the needs of the shipping lane in Batukaras and present the layout of the hydrodynamic modeling of the Batukaras PPI Breakwater against the existing conditions of the Batukaras PPI. The results of the study are that the Breakwater location has an elevation of HHWL 1.057, LLWL -1.085, the highest wave height is 5.215 m, and the highest current is 0.138 m / s coming from the southeast. The layout of the PPI Batukaras Breakwater Hydrodynamic Modeling has an impact on existing conditions by being able to withstand 60% of incoming wave currents and dampening 27% of wave heights around the Breakwater location.

***Keywords** : port, fish landing base, breakwater, hydrodynamics*