


#817 Summary

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EMPANG PARIT AS A SILVOFISHERY MODEL TO SUPPORT MANGROVE CONSERVATION AND ECONOMIC FISHERMAN

Mangrove, estuary and lagoon ecosystem as the aquatic organism habitat have suitability to develop silvofishery system. *Empang parit* as a model of integrated silvofishery is developed to support integrated between the conservation activity of mangrove and aquatic ecosystem with increasing of fisherman income. This research aimed to analyze strength and success of *empang parit* based on variable of water quality, mangrove ecology and socio-economic society. To analysis this system is used vegetation analysis, satellite image analysis, geographical information system, and socio-economic valuation. The data showed that *empang parit* had water temperature between 29 – 32.6°C, water brightness between 30 – 60 cm, water salinity between 15 – 32 ppt, pH between 7 – 8.1 and dissolved oxygen between 3.9 – 8.3 mg/L. The *empang parit* also had dominated vegetation like as *Bruguiera gymnorhiza*, *Heritiera littoralis* and *Excoecaria agallocha*, *Rhizophora mucronata* and *Rhizophora apiculata*. And *empang parit* gave positive economic value using value of NPV between 2.754.703–3.871.542 IDR, IRR between 21–48 and R/C between 2.26–2.32

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Our decision is: Resubmit

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