

## Fishing Technology

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Dug-out outrigger canoes, traditional fishing craft found from Madagascar in the west to Indonesia and the Pacific Islands in the east, are made from tree trunks of adequate diameter. But logs for construction of large canoes are becoming difficult to find and construction is consequently becoming more and more expensive. Dug-out construction also wastes a lot of timber. For each dug-out canoe, two or three planked canoes can be built. The Bay of Bengal Programme (BOBP) undertook a project in Nias Island, Sumatera, Indonesia, and Shri Lanka to design and construct planked outrigger canoes that would provide an answer to the problems now being faced in building the traditional outrigger canoes.

The outrigger canoe developed by BOBP was fully tested and found acceptable by fisherfolk in several villages of North Sumatera. This manual, describing the design and construction of this BOBP-designed canoe, is presented in a simple 'how-to-do' format that can easily be used by any boat-builder or carpenter with a little experience. The manual shows, step by step, how to build the main hull of the 8.6 m-long INS-5 canoe using sawn planks. The same methods of construction may be used for canoes from 7.5 m to 10.8 m length.

Though this manual has been prepared specially for small-scale carpenters with basic tools, engaged in the construction of small timber craft in remote villages, it could also be useful for trainers teaching in fisheries schools and extension workers in small-scale fisheries.