

## STUDY ON THE BA'GO TYPE PAYANG FISHING BOAT IN MAJENE, SOUTH SULAWESI

Mahfud Palo<sup>1)</sup>

<sup>1)</sup> Faculty of Marine Science and Fisheries Unhas, Makassar

### ABSTRACT

The use of *ba go* type *payang* boat in Majene, South Sulawesi, has decreased continuously for yet unknown reasons. This decrease could be due to lack of good technical aspects or competition with a different type of *payang* boat. A case study was conducted to examine some technical aspects of *ba go* type *payang* boats operated in three different places in Majene, South Sulawesi. Technical parameters analyzed included principal dimensions, stability, fineness coefficients, and material as well as engine selections. Results indicated that ratios among the principal dimensions of *ba go* boats were  $L/B = 4.04-4.48$ ,  $L/D = 10.50-12.73$ , and  $B/D = 2.60-2.97$ . Coefficient of fineness were  $C_b = 0.41-0.51$ ,  $C_p = 0.58-0.63$ ,  $C_m = 0.64-0.88$ , and  $C_w = 0.61-0.73$ . The position of KG, KB and GM from the keel were 0.23-0.45, 0.26-0.39 and 0.60-0.80, respectively. The loading capacity ranged from 5.30 to 6.02 gross tonnage (GT), whereas the size of engines used was 23-27 horse power (HP).

*Key words: fishing boat, ba go type, payang, technical aspects*

### INTRODUCTION

Small scale (traditional) fishery is the primary component ( $\pm 98\%$ ) of the Indonesian fishing industry. Lubis (1982) and Pasaribu *et al.* (1984) reported that this fishing business was the target of marine fishery development and modernization.

The construction of motorized wooden boat has shown a significant development in the past several years. However, some aspects of the boat still need to be improved, especially the traditional one. The traditional boat building emphasizes more on the artistic and commercial rather than on the technical aspects. In fact, technical aspects determine maneuverability and seaworthiness of the boat. A fishing boat is expected to have a good maneuverability during searching fish school as well as in operating fishing gears (Ayodhya, 1972).

Fishing with *payang* must be supported by good stability of boat used since setting and hauling of *payang* net take place on one side of the boat. As a consequence, cumulative weights originated from the net, catch and crews will be centered on this side (Palo, 1984).

The number of *ba go* type *payang* boat in Majene, South Sulawesi, has decreased continuously in the past several years. This type of wooden boat is built traditionally, and therefore, lacking depth consideration regarding design and construction as normally done in large shipyards. The reason for this decrease is not clear yet, but it could be due to competition with

<sup>1)</sup> Contact person: Ir. Mahfud Palo  
Jurusan Perikanan, Fakultas Ilmu Kelautan dan Perikanan, Universitas Hasanuddin  
Jl. Perintis Kemerdekaan Km 10 Tamalanrea, Makassar 90245  
Telp/Fax. (0411) 585 189

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