

Determinants of Earnings of Motorized Canoes in Goa: An Analysis

Sanchiliana Faria and Manoj S. Kamat

Primary data was collected using simple random sampling method through interview schedules from 140 traditional fishermen owning 26-38 ft motorized fishing canoes with engine capacities varying from 8 to 9.9 horsepower in the six coastal talukas in North and South Goa. Determinants of the economic earnings from motorized canoes with the log-log model of multiple regression examined the impact of selected input of factors of production on the gross earnings from fish catch show that three independent variables, namely, horsepower, fishing hours and fuel costs had a statistically significant positive relationship on the dependent variable of gross earnings. Motorized fishing units have created employment opportunities to the people in the marine villages.

I Introduction

Motorized canoes used in the traditional sector in Goa locally known as “*Patthe*” are made of wood or fibre reinforced plastic. The Department of Fisheries in Goa, permits fishermen to build or purchase motorized canoes from 26 to 38 feet fitted with eight and 9.9 outboard horsepower motor engines to carry out fishing activities. Fishermen use traditional fishing gears, i.e., gill nets and mini-purse-seine nets.

II Review of Literature

Selvaraj, *et. al.* (2000) used the linear regression model and found that fishing was a major source of income for the fishermen owning motorized and non-motorized canoes. Raju's (2013) comparative analysis between 75 motorized and

Sanchiliana Faria, Research Scholar, Department of Commerce, Goa University, and Associate Professor, Department of Commerce, MES College of Arts and Commerce, Zuarinagar 403726, Goa, Email: sanchifaria@yahoo.com

Manoj S. Kamat, Principal, DPM's Shree Mallikarjun College, Canacona, Goa and Research Guide, Research Centre in Commerce, VVM's Shree Damodar College of Commerce and Economics, Margao 403601, Goa, Email: mskamat@gmail.com

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