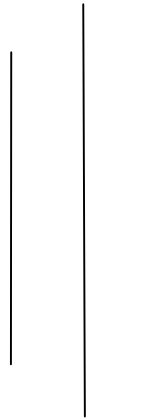


**“STUDY OF DISTRIBUTION PATTERN OF FISHES
AND THE SOCIO- ECONOMIC CONDITION OF
FISHER COMMUNITY”**

A Dissertation



Submitted to the Institute of Science and Technology Central Department
of Zoology, Tribhuvan University for the Partial Fulfillment of the
Requirements for the Master degree in Zoology
(Fish and Fisheries)

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2010

RECOMMENDATION

It is our pleasure to mention here that Mr. Krishna Giri has completed his dissertation work entitled **“STUDY OF DISTRIBUTION PATTERN OF FISHES AND THE SOCIO-ECONOMIC CONDITION OF FISHER COMMUNITY”** under my supervision and guidance. It is his original work and brings out useful results and findings in the concern field.

I strongly recommend this dissertation for approval for the partial fulfillment of the requirements for the Master’s degree of Science in Zoology with special paper Fish and Fisheries.

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APPROVAL LETTER

This is to certify that Mr. Krishna Giri has completed this dissertation work entitled “Study of Distribution pattern of fishes and the socio-economic condition of fisher community” as a partial fulfillment of M.Sc degree in Zoology (Fish & Fisheries) under my supervision. To my knowledge this work has not been submitted for any degree. I recommend this dissertation for approval.

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We, all the members of evaluation committee, went through the dissertation entitled “Study of Distribution pattern of fishes and the socio-economic condition of fisher community” and found to be satisfactory to recommend Mr. Krishna Giri qualified for awarding M.Sc Degree in Zoology with Fish and Fisheries as a special paper.

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DECLARATION

I hereby declare that the work presented in this thesis has been done myself and has not been submitted elsewhere for the award of any degree. All sources of information have been specially acknowledged by references of the authors of institution.

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Abstract

The present study entitled “Study of Distribution pattern of fishes and the socio- economic condition of fisher community” deals with the distribution pattern of fishes in Phewa lake, diversity and frequency occurrence of fishes along with the socio-economic condition of fisher community residing the Phewa Lake and fishing implements.

During the present investigation altogether 21 species of fishes belonging to 5 orders viz. Cypriniformes, Siluriformes, Perciformes, Beloniformes and Synbranchiformes. They belong to 6 families, 11 genus and 16 species. Most of the common and dominant species from Phewa Lake are found to be Cyprinids which contributes about 84% of the total catch. The distribution pattern of fishes like *Channa gachua*, *Puntius sarana* and *Garra annandalei* were found to be clumped where as rest of the fishes were uniformly distributed. The highest frequency occurrence of fish was found to be of *Puntius sophore* i.e. 11.69% and the lowest was of *Schizothorax richardsonii* i.e. 0.97%.

The socio-economic condition of fisher community residing the vicinity of Lake Phewa revealed their low economic status. More than 37% of the fisher community is totally illiterate. Among the literate also 43% are under S.L.C.

The fisher man having low economic condition and the occasional fisherman were found to use non-conventional fishing practices such as poisoning, electro-fishing and dynamiting. Conventional fishing practices were found to be in practice by full time fisherman. The natural fish habitat is being destroyed in the Phewa Lake due to large number of environmental factors such as deforestation, landslides, soil erosion and floods, silt deposition and human activities such as discharge of municipal sewages directly into the Lake, washing clothes by using soap and detergent in the Lake and the excessive use of chemical fertilizers in the agricultural field by the farmers.

Key words: Distribution pattern, Socio-economic, Clumped, Jalari community, Conventional.

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