

# 25 YEARS OF RESEARCH A BIBLIOGRAPHY





हर कदम, हर डगर  
किसानों का हमसफर  
भारतीय कृषि अनुसंधान परिषद

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## PREFACE

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The Directorate of Coldwater Fisheries Research has successfully completed 25 years of its establishment and now is a premier research organization to cater the needs of coldwater fisheries sector of the country. Over the years the institute has metamorphosed from a small Coldwater Research Unit to NRCCWF to DCFR. During the years the Directorate has completed several research projects and has also developed technologies for the upland aquaculture and resource assessment. In the recent times the Directorate has also started working on specialized areas of geoinformatics, molecular genetics and fish pathology. A quite good numbers of publications were made in the national and international peer review journals and proceedings. To commemorate the occasion the Directorate has tried to compile the publications made by the scientists remained associated with the Directorate. The Bibliography would be of immense help to all the researchers and academicians working in the coldwater sector.

I congratulate Shri Baldev Singh Librarian and Shri Vijay Kumar Singh for their sincere efforts and endeavour in bringing out the present publication.

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## INTRODUCTION

The Directorate of Coldwater Fisheries Research (DCFR) came into existence as National Research Center on Coldwater Fisheries as an independent Research Center on 24 September, 1987 during the VII Five Year Plan. This is the only national facility in the country to take up the research investigation on capture and culture aspects with a focus on exotic and indigenous coldwater fish species. Since its inception, the DCFR in spite of constraints in terms of manpower and infrastructure has made significant contribution for proper appraisal of coldwater fishery resources and developed suitable technologies to propagate important coldwater fish species in hills. Keeping in view the ever expanding activities of NRCCWF and the greater potential of coldwater fisheries in different Himalayan states, in a significant decision during the XI plan, it has been made Directorate of Coldwater Fisheries Research (DCFR), to develop location, situation and system specific technologies by utilizing and augmenting resources in all the Himalayan states from Jammu & Kashmir to Arunachal Pradesh. The Directorate has completed 25 years of establishment and now has entered into its "Silver Jubilee Year". During this period the Directorate has done sincere efforts to harness the available resource in a sustainable manner and equipped itself to face new challenges in coldwater fisheries research and development. The progress made in terms of infrastructure and research facilities are commendable. The DCFR is on its glorious path of virtually actualizing its vision by imparting boon of quality research in sustainable coldwater fisheries production, management and conservation. During this 25 year, DCFR has published some peer reviewed articles/bulletins/abstracts etc. In this bibliography, it was tried to compile all those

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