

Report of CAFT on

**'ONE HEALTH WITH SPECIAL REFERENCE TO FISHERIES AND AQUACULTURE'**

18-27 February 2019

Organized by

Course Director: Dr. K. Pani Prasad

Coordinators: Dr. Kundan Kumar & Ms. Jeena K

**Aquatic environment and Health Management Division**

**ICAR-Central Institute of Fisheries Education, Mumbai-400061**

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A training programme was organised by ICAR-CIFE on **'One Health with Special Reference to Fisheries and Aquaculture'** under the ICAR sponsored short course, during 18-27 February 2019. A total of 19 participants from various ICAR institutes, SAUs and KVKs attended the programme. The participants were provided a complete theoretical exposure to the concept of one health, the status of antimicrobial resistance (AMR) surveillance in India, antibiotic residues in fish, WHONET, AMR and food safety, markers for AMR, one health approach and fish borne parasitic diseases and alternatives to antibiotics: phytotherapy, vaccines, and edible antibodies. The programme provided a complete practical exposure to the sampling of fish and shellfish for studying AMR, microbial isolation from fish and shellfish samples, antibiotic sensitivity testing, biochemical characterization, molecular characterization of microbes using 16s rRNA PCR, automated characterisation of microbes using VITEK, detection of resistance genes for evaluating AMR and data entry and analysis of AMR data using WHONET. Guest lectures by Dr. M.M. Prasad, Head, Microbiology Fermentation and Biotechnology Division, ICAR-CIFT Cochin, on 'Milestones in development of AMR' and by Dr. T. J. Abraham, Head, Department of Aquatic Animal Health, Faculty of Fishery Sciences, West Bengal University of Animal and Fishery Sciences on 'Economic losses and impacts of diseases in aquaculture' were organised. The internal resource persons included Dr. K. V. Rajendran, Head, AEHM Division, Dr. R.P. Raman, Dr. Megha Bedekar, Principal Scientists, AEHM division and Dr. Saurav Kumar, Scientist, AEHM division. Research Fellows of AEHM division assisted the faculty in the successful conduct of practical sessions. The training programme was co-ordinated by Dr. Kundan Kumar and Mrs Jeena K., Scientists of AEHM Division. Dr. K. Pani Prasad, Principal Scientist Aquatic Environment and Health Management Division was the Course Director of the training. Pre-and post-evaluation of the training was conducted and a significant improvement in theoretical and practical skills of the trainees were observed. The participants provided a positive feedback on the overall content and delivery of the programme. Director/ Vice Chancellor, ICAR-CIFE & Programme Director, Dr. Gopal Krishna distributed the certificates to the participants in the valedictory function.



**Group photograph of the Trainees along with Director, ICAR-CIFE, Members of the Faculty and other Resource persons**