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The Imperative Role of Fisheries Extension in the Growth of the Fisheries Sector in India

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SUMMARY

The role of the fisheries extension in India's fisheries sector is prodigious. One of the most essential realms is enhancing fishers' awareness. By arming fishers with novel technology, trends, methods, and ensuring the perpetuity of their traditional knowledge, fisheries extension promotes an understanding of various practices of fishing, thereby leading to efficient operations, resulting in maximised yield and reduced ecological damage. Second, the fisheries extension has a pivotal role in research and development, which is significant in cultivating operational efficiency. Improved fishing gear technology, including net designs and materials, fish hooks, and boat building materials among others, enhance the efficiency of fishing operations (FAO, 2008). Also, it encourages the adoption of environment-friendly practices thereby promoting sustainable fishing. If handled effectively, fisheries extension could serve as a catalyst for the exponential growth of India's fisheries sector. Through enhancing the awareness, operational efficiency, and sustainability of the sector, it undeniably serves as a magnificent driver for the sector's growth.

INTRODUCTION

In the global panorama of sustainable development, the fisheries sector, especially in the context of India, has emerged as a crucial domain in driving the economy forwards. Fisheries extension plays a vital role in driving the growth and development of the fisheries sector in India. The fisheries extension system serves as a bridge between scientific knowledge, technological innovations, and the fishing community, enabling the effective dissemination of information, best practices, and sustainable approaches. Fisheries extension includes the process of providing fishers with the technical knowledge, initiatives and capital necessary for improving their fishing methods and practices (Pomeroy and Rivera-Guieb, 2006). The role of fisheries extension cannot be underestimated as it significantly influences awareness, operational efficiency, sustainable development, hence, the subsequent growth of the sector. This article aims to cogently expound on the imperative role of fisheries extension in catalysing the growth of the fisheries sector in India, and argue persuasively for its significant strategic role.

Role of Extension in Fisheries Development Addressing Emerging Challenges:

A vibrant extension system is essential to address the emerging challenges in the fisheries sector and to facilitate its development. Extension services provide valuable information, guidance, and support to fishers and aquafarmers, helping them navigate challenges such as climate change, sustainable fishing practices, and market dynamics.

Facilitating Knowledge and Skill Acquisition:

Fisheries extension services facilitate the acquisition of knowledge and skills among fishers and aquafarmers. The Department of Fisheries (DoF), as the main extension service provider in the state, plays a significant role in facilitating farmers to obtain the necessary knowledge and skills for fisheries development. Fisheries extension services deliver up-to-date information about modern fishing techniques, aquaculture practices, resource management, and market trends to fishers, aquaculturists, and related stakeholders. This knowledge empowers them to make informed decisions, adopt improved methods, and stay competitive. Training programs and workshops organized by extension services enhance the **skills** and capacity of fishers and aquaculturists. These initiatives cover various aspects, including sustainable fishing practices, pond management, water quality monitoring, and value-added processing.

Enhancing Aquaculture Development:

Public-funded fisheries extension services have been identified as crucial for the development of aquaculture in India. However, there have been criticisms of the slow pace of aquaculture development, highlighting the need for effective extension approaches. The evolution of a National Fisheries and Aquaculture Extension Service (NFAES) has been suggested to strengthen fisheries departments and streamline extension services.

Contributing to Overall Agricultural Development:

The fisheries sector contributes significantly to the overall growth and development of agriculture and the Indian economy. Fisheries extension services support the growth of this sector by enhancing productivity, improving market linkages, and promoting entrepreneurship among fishers and aquafarmers.

Technology Transfer:

The extension system facilitates the transfer of advanced technologies developed by research institutions to the grassroots level. This includes sharing innovations in fishing gear, breeding technologies, disease management, and post-harvest handling. Technology adoption enhances efficiency, productivity, and resource utilization.

Innovative Practices:

Fisheries extension promotes the adoption of innovative practices that improve sustainability and profitability. This can involve introducing new species, integrating aquaculture with agriculture (aquaponics), adopting eco-friendly fishing methods, and exploring alternative livelihood options.

Advisory Services:

Extension workers offer personalized advice and guidance to fishers and aquaculturists, considering local conditions and challenges. This helps them address issues like disease outbreaks, changing weather patterns, and market fluctuations effectively.

Market Linkages:

Extension services connect fishers and aquaculturists with market opportunities, helping them understand consumer preferences, quality standards, and pricing mechanisms. This contributes to better price realization and improved market access.

Sustainable Resource Management:

Fisheries extension emphasizes responsible and sustainable fishing practices. By educating fishers about overfishing, habitat conservation, and catch limits, extension services contribute to the long-term health of aquatic ecosystems.

Promoting Sustainable Fishing Practices:

Extension services play a lead role in equipping fishers with the knowledge and tools for sustainable fishing activities. They provide guidance on responsible fishing practices, resource management, and conservation measures, ensuring the long-term sustainability of the fisheries sector.

Women and Youth Empowerment:

Extension programs target women and youth, offering them training and resources to engage in fisheries and aquaculture activities. This diversification of participation supports livelihoods and empowers marginalized groups.

Policy Advocacy:

Extension services provide valuable feedback to policymakers by sharing insights from the field. This contributes to evidence-based policy formulation that supports the growth and sustainability of the fisheries sector.

Stakeholder Engagement:

Extension services foster collaboration among various stakeholders, including government agencies, research institutions, industry associations, NGOs, and the fishing community. This collective effort enhances the sector's overall development.

CONCLUSION

In India, where fisheries are a significant contributor to food security, livelihoods, and the economy, the role of fisheries extension becomes even more critical. By bridging the gap between knowledge and practice, extension services promote responsible resource utilization, improved livelihoods, and the sustainable growth of the fisheries sector. They address emerging challenges, enhance aquaculture development, facilitate knowledge acquisition, promote sustainable practices, and contribute to the overall agricultural development and economic growth of the country. In terms of fish production, India has been successful, standing as the second-largest producer in the world. This significant achievement could not be possible without the indispensable role of fisheries extension, which continually equips fishers with the skills and knowledge vital for enhanced productivity. However, the role of fisheries extension, like other developmental sectors, is not immune to challenges. Key issues include limited access to the latest technologies, ineffective extension services and the need for enhanced communication between fishers and extension agents. To address these issues, it is critical for vanguard policies to be implemented, which revamp existing frameworks and enhance the role of extension services in the Indian fisheries sector. Going by the foregoing, the fisheries extension occupies a unique and integral position in the growth of the fisheries sector in India. It is, therefore, strongly recommended that policymakers, researchers and stakeholders invest more resources in strengthening the fisheries extension services for the sustainable growth of the fisheries sector in India. This would only buttress India's vision of actualising a 'Blue Revolution' and becoming a global leader in the fisheries sector.

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