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FACET OF ECONOMY YESTERDAY, TODAY & TOMORROW



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CHAPTER

BLUE ECONOMY: AN EVALUATION IN T LIGHT OF NEW FISHERIES POLICY

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Abstract

Fisheries play an important role in the economy of India. It helps in augment food supply, generating employment, rising nutritional level and earning im exchange. The sector provides livelihoods to about 16 million fishers and fish fam at the primary level and almost twice the number along the value chain. The fisher sector contributes a major portion to the national income.

Keywords: Fisheries, Blue Economy, National Fisheries Policy

Introduction

Fisheries are an important source of food, nutrition, employment and income in inter-The sector has immense potential to more than double the fishers and fish interers' income, as envisioned by the government. The Indian fisheries sector is set in unique and diverse set of resources raging from the pristine waters of the Himales to the sprawling Indian Ocean. The fisheries biodiversity of the country encompaa wide spectrum of physical and biological components that support the livelihout of millions of people. Commencing as a purely traditional activity, fisheries have no transformed into a commercial enterprise. Fisheries resources are set in differecosystems. With growing population and the increasing demand for fish protein need for sustainable development of aquatic resources is now felt much more fulfils the requirements of today and leaves an equally better fishery for tomorrow is necessary to develop a sound National Fisheries Policy (NFP) framework, which

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and income in h fishers and fish fisher eries sector is set aters of the Himal country encompaport the liveliha by fisheries have are set in different for fish protein fielt much more fishery for tomorrow fishery for tomorrow framework, wh In the cardinal principles of equity and equality and adopts a people centric patory approach; mainstreams gender, and maintains inter-generational The National Fisheries Policy 2020 would offer a strategized way forward to harness, manage and regulate capture and culture fisheries in a responsible mable manner. The Policy will ensure a productive integration with other sectors, such as agriculture, coastal area development and eco-tourism, the goals of the 'Blue Economy'. While centre-state and inter- state coopero-economic up-liftmen and economic prosperity of fishers and fish farmally traditional and small-scale fisheries are at the core of the Policy. The prors national aspirations and the developmental goals set before the nation

Economy

Economy, a promise to bring about changes that aim at the sustainable use resources, lay stress on the promotion of smart and inclusive growth but interconnected segments such as marine fishing and allied sectors, and energy exploration and shipping as well as coastal region tourism. These a major stake in promoting Blue Economy, since the livelihood of large of costal inhabitants in the country depends on the wealth of the oceans. If people are directly dependent on marine fishing and allied activities for realihood. Those depending on coastal aquaculture, coastal tourism, shipping, offshore energy production and other related services add to it. Another reason why Blue Economy is poised as a game changer for India is because of fish production. It is estimated that, by 2030 India will require about 18 million tons (NFDB) of fish to meet the demands. When considering the fact that today moduce about 11 million metric tons annually (DAHDF) there is a gap of 7 million tons that needs to be bridged.

the limitations of the marine capture fisheries sector and the modest enhancethat are likely from the deep sea resources, rather substantial enhancements the land based fisheries and aquaculture systems, the focus is on agriculture. The wing demand for seafood in the country, necessitates harnessing the unexpotential of capture fisheries in a sustainable manner as well as to explore the an overhaul of the marine fisheries sector and its governance is critically one of the approaches to intensify capture fish production is exploitation sea resources, which is yet to be tapped fully. However, technological lag mancial constraints have been the major bottlenecks in the delayed take off the tapped sea fishing industry in India. Deep-sea fishing needs higher capital invest-

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ment and recurring cost since deep-sea fishing is expensive compared to trawling operations. Promotion of Mari culture is emerging as a major option the growing seafood demand. With the development of captive breeding an production technologies for high value marine fish species, mariculture t cage farming is being established all along the coastal waters of maritime sa Union Territories (UTs). However, production from mariculture is yet to pickcommercial scale in India. Several policy measures such as identification **i** areas, development of leasing policies, development of quality certified seed a production facilities and value chain development have been suggested for our harnessing the potential of mariculture. Genetic and biotechnological interv offer huge potential for tapping the rich resources of ocean and meeting the s able development goals towards realization of a Blue Economy in India. Pro biotechnological applications in the field of marine fisheries include stock 🖛 identification using genetic tools, bio prospecting for development of pharmace and cosmetics, bioremediation and bio-monitoring for ensuring sustainable **m** tion environments, in vitro fish meat production and climate smart biotect to minimize the adverse impacts of climate change. Development of maries value chain integration of marine fish is equally important for ensuring its su able production. Though modern and innovative marketing models are eme in recent years, marketing practices followed presently are predominantly and traditional in many areas with inefficiencies pervading across the value chain

In view of these, a comprehensive strategy is essential to upgrade marketing r structure, reform fish auctioning systems, develop niche labels for increasing a ability and ensuring quality, enhance traceability of consignments, strengthen = intelligence and promote exports. . The potential of harvest and post-harvest term ogies for efficient harvesting, value addition and for ensuring fool proof quality a ance mechanisms need to be harnessed to improve the overall efficiency of the chains. There are several demonstrated technologies such as energy efficient and gear designs, use of alternate sources of energy for powering fishing operation use of satellite-based prediction techniques to reduce fuel consumption, new i preservation and processing technologies, better packaging systems, technologies for zero-energy waste management. Therefore, that can be adopted and up-sa for the benefit of fishermen, fishery entrepreneurs and other value chain interm aries. Fisheries governance is a matter of extreme importance in the context of **H** Economy as an efficient model of resource management and governance is the kernel sustainable development of its constituent sectors. In India, control and regulation of fishing and fisheries within territorial waters is the exclusive province of the Sa whereas beyond the territorial waters, it is the exclusive domain of the Union government

to the coastal coption to men reding and mar multure through ime states and to pick-up at the cation of suitable e i seed and feel aned for optimally cal intervention ang the sustain-India. Promising E stock structure charmaceutical inable product biotechnolog of markets and its sustainels are emerging minantly old and ralue chain.

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There is an exhaustive set of legal instruments, which has introduced from the to time to govern fishing and allied activities along the coast. The marine fisherregulatory Acts of the State Governments, which are the pillars of fishery regulations in the coastal states, need to be reformed and updated to address the emerging these. There is a need to follow the ecosystem approach to fishery management to ensure sustainable development. Similarly, extensive use of technology such as GIS and remote sensing applications, vessel monitoring systems, automatic identification systems and other and management options are necessary to strengthen monitiong, control and surveillance. India also needs to harness multilateral negotiations and international cooperation to develop and expand its maritime operations.

scart from the above priorities, other areas that need attention are financial support. accil development and ensuring social safety for the people engaged in marine fisherres and allied sectors. Presently, credit for fishermen is mainly catered to by informal financial agents such as auctioneers, middlemen and private moneylenders. inter- linked deals with such financial intermediaries often result in bondage and molve huge costs in the form of inflated interest rates and auction commission. Measures should be taken to improve financial inclusion of fishermen through provisca of flexible and affordable credit which suit their unique requirements. Similarly, a strong fisheries extension system is needed to consolidate the gains in the sector = well as to address the emerging challenges by conveying the relevant information major stakeholders, in addition to translating policy goals into action domain. To mine emerging opportunities and tackle hindering challenges in the sector, fishernen, fish workers, value chain intermediaries and fishery department personnel tage to be trained adequately. Investments need to be pumped in to plug the gaps in tegard and to develop human resources for the future growth of the sector. Finalis measures for strengthening social safety nets in the form of insurance coverage, sion schemes, and social welfare programs are needed to insulate fishermen and and marginal entrepreneurs from natural calamities and other adverse events. a larger coordination is required at the national level for strengthening the weak triks in marine fisheries sector. It is envisage that a separate Ministry created at the Centre with specific departments to cater to the requirements in marine and inland cepture, aquaculture and fisheries research and education will lead to a major growth inis sector.

Mational Fisheries Policy

india's fisheries sector provides enormous potential in extending its reach to hithers un/underexploited resources in both marine and inland waters; sizeable hikes in production and productivity from aquaculture; productive integration of farming sectors such as agriculture, horticulture, poultry, and livestock and of non-food fisheries such as ornamental; and in enhancing the availability tious fish protein rich in omega-3 fatty acids to the nation's growing populathe environmental front, pond, tanks and floodplains can play a very imporin harvesting and holding rainwater and in the process serving as a valuabrating agent for the re-charging of groundwater. With the growing populacountry and the increasing requirements for fish protein, the need for development of the resources is now felt much more than ever before. To demands and ensuring a growth trajectory that fulfils the requirements of leaves an equally better fishery for tomorrow, it is necessary for the country op a sound National Fisheries Policy framework.

The Policy will provide the blueprint to optimally harness the capture and fishery resources that would help in sustaining the desired production and tivity levels. It is also expected that this policy framework will guide similatives at the State and Union Territory-levels in the coming period. Accepted that the fisheries resources are set in diverse ecosystems that determine and the integrity of the resources and the plant and animal wealth comthe NFP will adopt a mountain to sea-scape approach. This will ensure the receives minimum adverse impacts from external sources and in the prominimum adverse impacts on the environment. Within the framework of omy', the NFP will also ensure a productive integration with the other sectors, such as agriculture, livestock, water resources, hydro-electric proforestry and environment, eco-tourism, rural development, and shipping and goals of the 'Blue Economy'.

The NFP will lay adequate emphasis on reducing the vulnerability of fishing nities from the ever-increasing impacts of climate change mediated climate, extreme natural events such as cyclones and tsunamis, floods and climate any other unprecedented situation such as the COVID-19 pandemic, ensure communities' resilience is built to offset such threats.

The NFP will also take into account the fact that fisheries are gradually globalized environment that involves trade, sharing of water basins, in Economic Zone (EEZ) movement of migratory fish species, trans-bound ment of live aquatic animals, curbing of Illegal, Unreported and Unregand finally India's commitments to international instruments of both mon-binding nature.

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egradually moving r basins, inter-Exch trans-boundary m and Unregulated fish ents of both binding arly, the regional dimensions will also be adequately reflected in the NFP to see cooperative arrangements in the trans-boundary management of shared fishecosystems and the resources contained in them and in the interest of their sustainability. Finally, drawing inspiration from the fact that the Governhas created a separate Ministry for the fisheries sector, the policy will mirror the coal aspirations and the developmental goals set by the country's leadership, to be that fisheries become an equal partner with the other developmental sectors making India a USD 5.0 trillion economy by the year 2025.

The objective of the National Fisheries Policy is to secure the overall development of the fisheries and aquaculture in the country. While the fishers and fish farmers the at the core of the Policy, the intent will be to ensure sound management and mable development of the resources and associated habitats, maintaining the stem integrity, meeting the food and nutritional security of the growing populatorecting the rights of the fishing and farming communities and building their the fisheries resources. The National Fisheries Policy (NFP) encompasses the land and the EEZ of the country and is set in a time-frame of ten years (2021-

Mational Fisheries Policy on Blue Economy

toastal and marine environment of India is one of the world's richest ecosyswith high productivity. The Blue Economy provides a great opportunity to access natural resources and ensure food security and gainful employment, only if the rees are sustainably harvested and well-managed. India has developed a workmedinition of Blue Economy as - "Blue economy refers to exploring and optimizme potential of the oceans and seas which are under India's legal jurisdiction for economic development while preserving the health of the oceans. The Blue my links production and consumption to capacity and envisages an integrated ech to economic development and environmental sustainability. It covers both manne, that is offshore resources, as well as the coastal, that is onshore resources."

The initiative takes an overall approach towards improving sustainable growth

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and management of aquatic resources, with special attention provided to the semivalue chain. However, keeping in view of the competing demands for ocean such the need for Marine Spatial Planning (MSP), which is an important tool for the mentation of the Blue Economy, assumes significance. With the growing demandmineral and oil exploration/extraction from the seas, the increasing volumes of time commercial traffic and reservation of spaces for strategic defence purposed available space for fisheries is diminishing. Keeping these contemporary demandments in view, the policy will emphasise on a sound MSP to ensure that all econoactivities get their due space and in the process, conflicts are reduced. Where require necessary research support would also be solicited from the Research Institution

Criticism on National Fisheries Policy

Aiming to accelerate the development of the fisheries sector, the Indian govern has released the draft National Fisheries Policy 2020 that intends to integrate components- marine and inland, capture and culture, and post-harvest - in a 🖬 document and create an environment to increase investments in the sector exports, and incomes of fishers and fish farmers. Fishermen bodies, marine exp and other experts working with the fisheries sector feel that the policy is export an ed, production driven and based on capital investments. They feel that it 😇 📠 protecting the interest of the fishing communities nor the environment, but 🖛 strip small scale fishers off their rights of access to commons, and also darm environment in the long run. In addition, they say that the policy does not take women. There are women in many parts of the country who engage in capture in eries in both marine, backwaters, estuaries and inland, there is no menticz 🗊 🗩 and wherever mentioned they are mere claims with no progressive inter in the fish workers. The draft states that the marine sector is dominated by the sources nomically backward artisanal and small scale fishers, that there is stagnaged and growth of marine capture fisheries, and that it is imperative to figure out a semi livelihood options. It suggests two initiatives for small scale fishers: to skill the deep fishing and to skill them in mariculture- the practice of cultivation of each ically viable marine plants and animals in seawater. The problem with 🖮 📰 the further you move away from the shore in terms of capture fisheries, and the you try to enhance production in artificial ways through intensive culture is the need for upfront capital to be able to conduct and undertake these action increase and invariably use more intensive technologies. The government si ly basing fishery development on the fact that it needs to invest through enter neurs, and that investment will be matched by government support. What no for fish workers is that it excludes them, because women, lower caste is the

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these involved in allied activities operate within a socio-economic system where involved are not embedded in the cycle of investment, extraction and profit. So, in addition to the schemes being financially unviable, there is also a clash of cultures and outlooks in the way the state sees and the people perceive development.

The inland fisheries include all rivers, canals, floodplain lakes, high altitude lakes, wetlands, tanks, reservoirs, brackish water, all saline and alkaline affected reas of the country. The state is going to take these areas under their jurisdiction and then it is going to lease them out to private entrepreneurs or beneficiaries, who are then going to enhance fish production. The traditional fishers and fish farmers are going to lose their natural rights over these water bodies- they will be turned into micract labourers.

The draft proposes to implement dedicated programmes for developing fishersector in islands. One of them is game fishing or recreational fishing, which is easingly being recognised as a sustainable means to connect with aquatic systems and as alternative livelihood options for small scale fishing communiin the Andaman Islands, the game fishing industry brings in a lot foreign reveprovides employment opportunities to local communities, and has a low impact marine ecosystems if the principles of catch and release with minimal stress to are followed. While an economic valuation of the game fishing sector in India mains to be undertaken, it will likely be beneficial to the local economy and is a example of ecotourism, if done right, responsibly, and equitably.

There is total neglect of the traditional knowledge of the fish workers, in the proposed and there is nothing on their rights. Development without rights will lead to on of fish workers from their livelihood. When you go in and look at the scope document, the development is not actually directed towards people for whom society's sympathies at large have been evoked. India's envisioning of the fishersector has for a long time been all about gaining returns from marine exports. The mage used in most policy documents focuses on resource exploitation rather than agement. Fisheries sustainability can be considered in six dimensions - ecologeconomic, social, technological, ethical, and institutional. And Indian fisheries term sustainability targets in mind. There need to be greater consideration of term sustainability and across the dimensions of social, ecological, ethical and term sustainability and across the dimensions of social, ecological, ethical and term sustainability and across the dimensions of social, ecological, ethical and there is no sustainability and across the dimensions of social, ecological, ethical and the social for Indian fisheries to become truly sustainable.

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