

# FACET OF ECONOMY YESTERDAY, TODAY & TOMORROW



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# 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 freezchange. The sector provides livelihoods to about 16 million fishers and fish 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 The sector has immense potential to more than double the fishers and fish ers' income, as envisioned by the government. The Indian fisheries sector is sunique and diverse set of resources raging from the pristine waters of the Himals to the sprawling Indian Ocean. The fisheries biodiversity of the country encomparative wide spectrum of physical and biological components that support the livelihoof millions of people. Commencing as a purely traditional activity, fisheries have transformed into a commercial enterprise. Fisheries resources are set in difference for sustainable development of aquatic resources is now felt much more ever before. To meet the compelling demands and to ensure a growth trajectory fulfils the requirements of today and leaves an equally better fishery for tomorrows is necessary to develop a sound National Fisheries Policy (NFP) framework, which

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Eshers and fish factors sector is set aters of the Himal Country encompany fisheries have a reset in different for fish protein fielt much more factory for tomorrow framework, who

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 cooper-goals of the 'Blue Economy'. While centre-state and inter-state cooper-goals traditional and small-scale fisheries are at the core of the Policy. The matter actional aspirations and the developmental goals set before the nation

### Economy

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. The amajor stake in promoting Blue Economy, since the livelihood of large of costal inhabitants in the country depends on the wealth of the oceans. The people are directly dependent on marine fishing and allied activities for the livelihood. Those depending on coastal aquaculture, coastal tourism, shipping, maning, offshore energy production and other related services add to it. Another the son why Blue Economy is poised as a game changer for India is because of contribution towards the country's food security in the form of increased 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 and the about 11 million metric tons annually (DAHDF) there is a gap of 7 million tons that needs to be bridged.

that are likely from the deep sea resources, rather substantial enhancements hat are likely from the deep sea resources, rather substantial enhancements have land based fisheries and aquaculture systems, the focus is on agriculture.

I wing demand for seafood in the country, necessitates harnessing the unexpotential of capture fisheries in a sustainable manner as well as to explore senues such as mariculture to enhance the marine fish production. To achieve 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 trancial constraints have been the major bottlenecks in the delayed take off

ment and recurring cost since deep-sea fishing is expensive compared to trawling operations. Promotion of Mari culture is emerging as a major optim the growing seafood demand. With the development of captive breeding at production technologies for high value marine fish species, mariculture 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 if areas, development of leasing policies, development of quality certified seed a production facilities and value chain development have been suggested for many harnessing the potential of mariculture. Genetic and biotechnological interest offer huge potential for tapping the rich resources of ocean and meeting the 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 market value chain integration of marine fish is equally important for ensuring its sa able production. Though modern and innovative marketing models are in recent years, marketing practices followed presently are predominantly 💥 traditional in many areas with inefficiencies pervading across the value characteristics.

In view of these, a comprehensive strategy is essential to upgrade marketing a structure, reform fish auctioning systems, develop niche labels for increasing ability and ensuring quality, enhance traceability of consignments, strengthen intelligence and promote exports. . The potential of harvest and post-harvest text ogies for efficient harvesting, value addition and for ensuring fool proof quality 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 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 Economy as an efficient model of resource management and governance is the sustainable development of its constituent sectors. In India, control and regulation of fishing and fisheries within territorial waters is the exclusive province of the S whereas beyond the territorial waters, it is the exclusive domain of the Union govern

to the coastal croption to mes eding and mass aculture through ime states and to pick-up at the tation of suitable == i seed and feet ated for optimal intervention ang the sustain-India. Promising stock structure harmaceuticals inable produc biotechnolog of markets ng its sustain are emerging minantly old and

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

sect from the above priorities, other areas that need attention are financial support. active development and ensuring social safety for the people engaged in marine fishenes and allied sectors. Presently, credit for fishermen is mainly catered to by inforand financial agents such as auctioneers, middlemen and private moneylenders. linked deals with such financial intermediaries often result in bondage and morelye huge costs in the form of inflated interest rates and auction commission. Measures should be taken to improve financial inclusion of fishermen through proviact 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 z well as to address the emerging challenges by conveying the relevant information = major stakeholders, in addition to translating policy goals into action domain. To emerging opportunities and tackle hindering challenges in the sector, fishemen, fish workers, value chain intermediaries and fishery department personnel to be trained adequately. Investments need to be pumped in to plug the gaps in regard and to develop human resources for the future growth of the sector. Final-📴 measures for strengthening social safety nets in the form of insurance coverage, pension schemes, and social welfare programs are needed to insulate fishermen and == and marginal entrepreneurs from natural calamities and other adverse events. All larger coordination is required at the national level for strengthening the weak links in marine fisheries sector. It is envisage that a separate Ministry created at the Entre with specific departments to cater to the requirements in marine and inland equire, aquaculture and fisheries research and education will lead to a major growth in this sector.

### National Fisheries Policy

India's fisheries sector provides enormous potential in extending its reach to hithun/underexploited resources in both marine and inland waters; sizeable hikes in production and productivity from aquaculture; productive integration farming sectors such as agriculture, horticulture, poultry, and livestock of non-food fisheries such as ornamental; and in enhancing the availabilitious fish protein rich in omega-3 fatty acids to the nation's growing populate environmental front, pond, tanks and floodplains can play a very important in harvesting and holding rainwater and in the process serving as a valuating agent for the re-charging of groundwater. With the growing population country 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 attivity levels. It is also expected that this policy framework will guide stives at the State and Union Territory-levels in the coming period. Accept that the fisheries resources are set in diverse ecosystems that determine and the integrity of the resources and the plant and animal wealth conthe NFP will adopt a mountain to sea-scape approach. This will ensure the NFP will adopt a mountain to sea-scape approach. This will ensure the neceives minimum adverse impacts from external sources and in the prominimum adverse impacts on the environment. Within the framework of my, the NFP will also ensure a productive integration with the other sectors, such as agriculture, livestock, water resources, hydro-electric processors and environment, eco-tourism, rural development, and shipping goals of the 'Blue Economy'.

The NFP will lay adequate emphasis on reducing the vulnerability of fishinities from the ever-increasing impacts of climate change mediated ing, extreme natural events such as cyclones and tsunamis, floods and any other unprecedented situation such as the COVID-19 pandemic, ensurance 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. Economic Zone (EEZ) movement of migratory fish species, trans-boment of live aquatic animals, curbing of Illegal, Unreported and Unregand finally India's commitments to international instruments of both non-binding nature.

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larly, the regional dimensions will also be adequately reflected in the NFP to ecooperative arrangements in the trans-boundary management of shared fisherosystems and the resources contained in them and in the interest of their term sustainability. Finally, drawing inspiration from the fact that the Governhas created a separate Ministry for the fisheries sector, the policy will mirror the has created aspirations and the developmental goals set by the country's leadership, to 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 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 population protecting the rights of the fishing and farming communities and building their making Indian fish and fish products globally competitive, and supporting commitment towards fulfilment of the global agenda on sustainable and wise in 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-

# Tational Fisheries Policy on Blue Economy

with high productivity. The Blue Economy provides a great opportunity to access latural resources and ensure food security and gainful employment, only if the latures are sustainably harvested and well-managed. India has developed a work-maintain of Blue Economy as - "Blue economy refers to exploring and optimization of Blue Economy 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 each to economic development and environmental sustainability. It covers both maine, that is offshore resources, as well as the coastal, that is onshore resources."

isheries and aquaculture sector is emerging as a dynamic segment of the Indian and is positioned towards a significant growth trajectory in the coming Fisheries and aquaculture are also important constituents of Blue Economy es. These initiative aims to promote investment and innovation in support of security, poverty reduction, and the sustainable management of aquatic resourcinitiative takes an overall approach towards improving sustainable growth

and management of aquatic resources, with special attention provided to the search value chain. However, keeping in view of the competing demands for ocean the need for Marine Spatial Planning (MSP), which is an important tool for the mentation of the Blue Economy, assumes significance. With the growing demands mineral and oil exploration/extraction from the seas, the increasing volumes of time commercial traffic and reservation of spaces for strategic defence purpose available space for fisheries is diminishing. Keeping these contemporary demants in view, the policy will emphasise on a sound MSP to ensure that all economics get their due space and in the process, conflicts are reduced. Where represented the 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 and other experts working with the fisheries sector feel that the policy is export ed, production driven and based on capital investments. They feel that it is not protecting the interest of the fishing communities nor the environment, but  $oldsymbol{x}$ strip small scale fishers off their rights of access to commons, and also dames environment in the long run. In addition, they say that the policy does not women. There are women in many parts of the country who engage in capture and eries in both marine, backwaters, estuaries and inland, there is no menticz 🛣 and wherever mentioned they are mere claims with no progressive inter the fish workers. The draft states that the marine sector is dominated by the same nomically backward artisanal and small scale fishers, that there is stagnantic growth of marine capture fisheries, and that it is imperative to figure out 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 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 you try to enhance production in artificial ways through intensive culture 🖼 the need for upfront capital to be able to conduct and undertake these actions increase and invariably use more intensive technologies. The government sale ly basing fishery development on the fact that it needs to invest through neurs, and that investment will be matched by government support. What are for fish workers is that it excludes them, because women, lower caste 🖘

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- Indian government ands to integrate Earvest - in a single the sector, double cles, marine expens cicy is export one feel that it is neither nment, but would and also damage f does not talk about cgage in capture 🗺 s to mention of them. ressive intent for ated by the socio == :s stagnation in the figure out alternation ers: to skill them ivation of economic tem with this, is is heries, and the se ve culture fisher these activities covernment is est through entre port. What it m er caste fishers

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 outlooks in the way the state sees and the people perceive development.

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

draft proposes to implement dedicated programmes for developing fishersector in islands. One of them is game fishing or recreational fishing, which is
massingly 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
mare 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
mare example of ecotourism, if done right, responsibly, and equitably.

and there is nothing on their rights. Development without rights will lead to an 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 fisher-sector has for a long time been all about gaining returns from marine exports. The large used in most policy documents focuses on resource exploitation rather than agement. Fisheries sustainability can be considered in six dimensions - ecolog-seconomic, social, technological, ethical, and institutional. And Indian fisheries seem to be focused largely on economic and technological dimensions with term sustainability targets in mind. There need to be greater consideration of seconomic for Indian fisheries to become truly sustainable.

### Terences

extwprlegs1.fao.org/NationalFisheriesPolicy

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