

**Global Forum for Sustainable Transformation
Bharath Advisors & Partners LLP
& Government of Haryana**



Haryana Aquaculture Tech AI Shaping the Next Era of Governance

**Revolutionizing Aquaculture with DeepTech: Propelling 30% Growth
From Rs. 2600 Cr (2024-25) to Rs. 10,000 Cr GVA by 2030,
out of Rs. 22,000 Cr. with full potential**

Innovate and Transform: Shaping the Future of Aquaculture with Technology

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For inquiries or further information, please contact GFST at (admin@gfst.in).

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Global Forum for Sustainable Transformation
#409, 4th Floor, Shangrila Plaza, Road No.2,
Banjara Hills, Hyderabad 500034, Telangana, INDIA.
www.gfst.in

THE ECONOMIC AMBITION



*Shri Nayab Singh Saini
Hon'ble Chief Minister, Haryana*

If we sustain a 15% annual growth rate, Haryana can become Top State with Highest Per Capita Income \$1 trillion economy by 2038,

We are committed to inclusive growth, innovation, and sustainable development together, we will shape a Viksit Haryana.

Economy from Aquaculture can be reached to 10,000 Cr by 2030.

Towards Highest Per Capita Income State

HARYANA AQUACULTURE - IGNITING INNOVATION AT THE EDGE



**GFST Transforms
Haryana's Aquaculture
From ₹2,600 to ₹10,000
crore by 2030.**

GLOBAL FORUM FOR
SUSTAINABLE
TRANSFORMATION



**We Are Transforming Governance
Through Innovation, Technology,
and Impact, Under the Visionary
Leadership of
Shri Nara Chandrababu Naidu**

A multi-stakeholder think tank driving government transformation through AI, ML, Blockchain, and GovTech—aligned with Viksit Bharat 2047 and SDG goals, powered by visionary leaders, seasoned bureaucrats, and expert technocrats.

Driving Next-Gen Governance via DeepTech Collaboration

GFST AND BHARATH SUPPORTS - 45-DAY CONCLAVE SPRINT



TO CREATE A 5-YEAR ACTION PLAN FOR AQUACULTURE IN HARYANA FOLLOWED BY IMPLEMENTATION OF 5 YEAR STRATEGY

Cross-Sectoral Workshops

Map data sources and pain points for each goal



Live Dashboards

Enable real-time governance for ministers and administrators



5-Year Action Plans

Provide actionable plans with tech support and KPI logframes



Policy & Outcome Institutionalization

Institutionalize policy and outcomes with continuous handholding



Integrated Growth Framework

Define a realistic growth framework backed by measurable success



A 45-day innovation sprint co-developing reforms with the Department's framework

HARYANA - CURRENT AQUA FARMING

KEY METRICS – 2024-25



16,000

Farmers



2.32 L MT

Fish Production



2,624 Cr

0.25% of GSDP



23,318 Ha

Area under Aquaculture



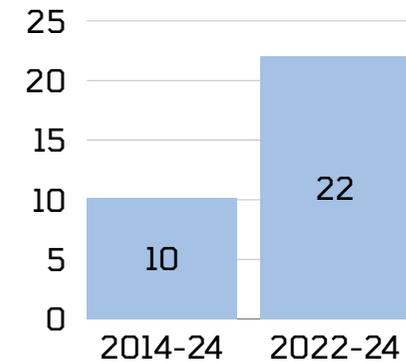
11,920

Aqua Ponds



1,45,054

Saline/Water logged area



Growth Trends

Empowering Aqua Farming: 16,000 Farmers, 2.32 Lakh MT Fish Production, 21.61% Growth

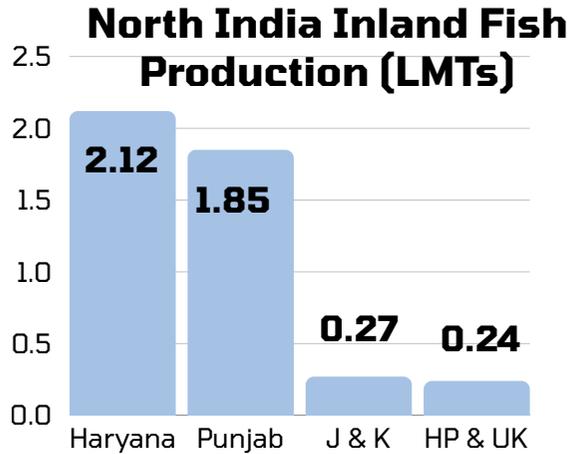
Source : Fisheries Dept, Haryana

Scaling Sustainable Aquaculture: Farmers First, Production-Led Growth and Future-Ready Haryana.

HOOKED ON SUCCESS: HARYANA'S FISH FARMING EXCELLENCE



Haryana ranks second nationally with 11,000 Kg/hectare and supports over 118,000 fishermen



2

in the average annual fish production per unit area in the Country

Source : Fisheries Dept, Haryana

Avg Annual Fish Prodn - Haryana
11000 Kg/Hectare
National Avg : 3000-5000 Kg

No. of Fisherman

1,18,455
(0.42% of population)

1,17,934
(99.56%)
Male

Fisherman Per District

5,384

300% growth in saline water aquaculture (2020-2024) ✓

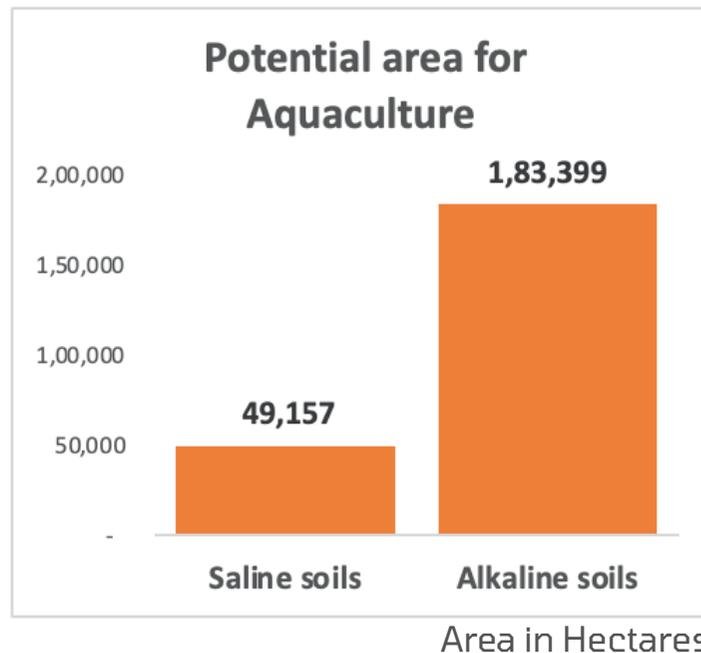
Strategic position in North India for fish and shrimp exports ✓

Proximity to Delhi fuels Haryana's aqua growth, with farmers harvesting live fish for higher market prices ✓

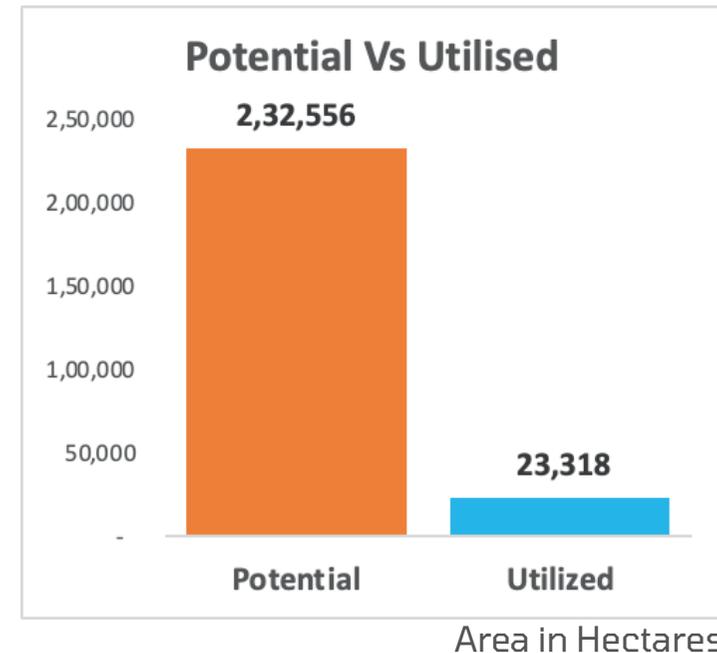
More than 80% of the village ponds in the state have been brought under fish farming

2 Lakh+ Hectares Waiting to Generate Ultimate ₹22,000 Crore GVA Opportunity

- **Untapped Land Potential: ~2.0 lakh Hectares**
- **GVA Per Hectare: Rs. 11.26 Lakhs**
- **Additional GVA Potential: ~Rs. 22,000 Crores**



Still, 90% of land is under utilised.



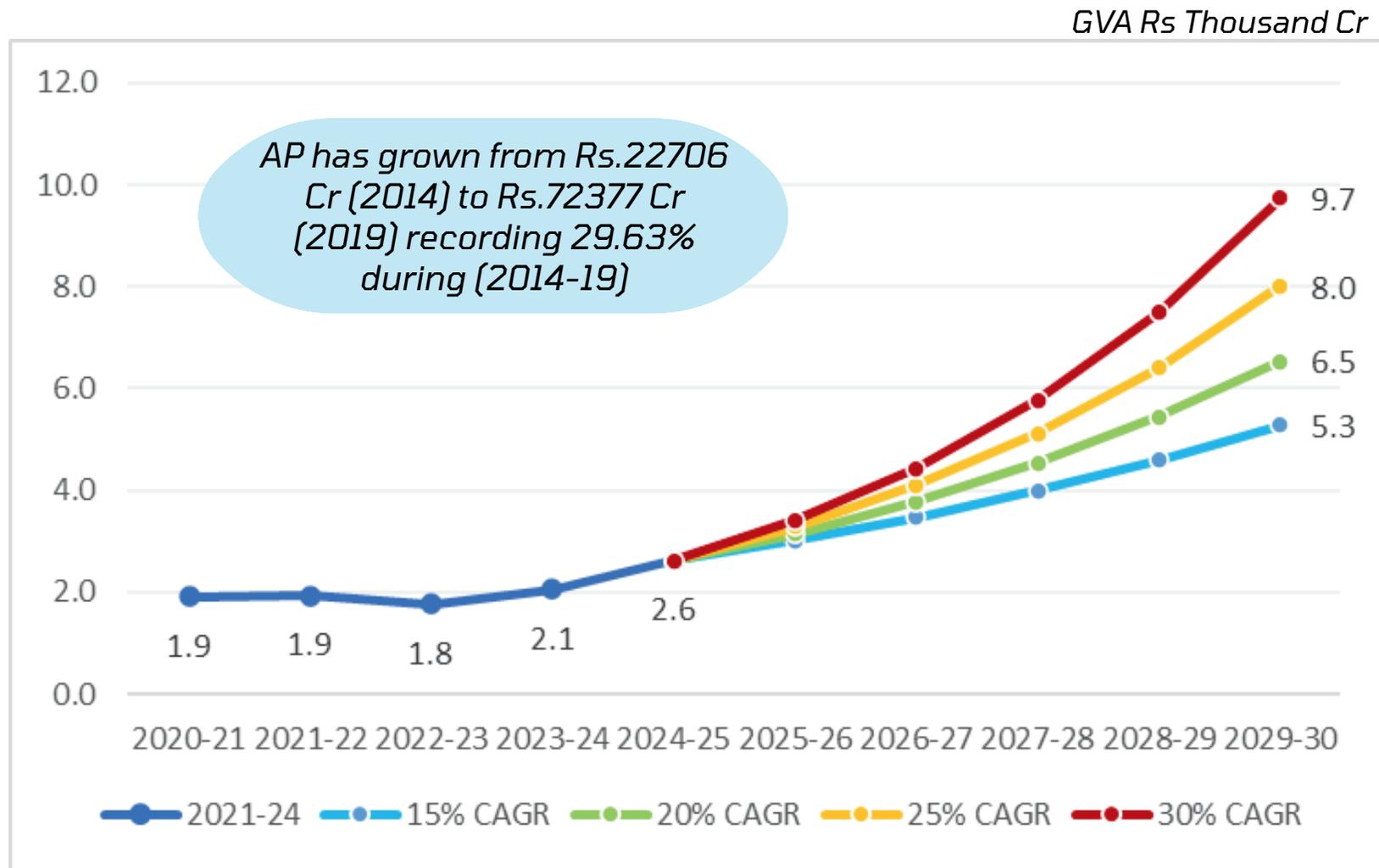
Haryana's alkaline/saline tracts—once liabilities—are now prime aquaculture assets, especially for vannamei shrimp, with growing scope for brackish finfish where salinity fits. With CIFE's ion-fortification protocols, lined infrastructure, and PMMSY support, the upside is strong for clusters in Hisar–Fatehabad–Sirsa–Rohtak belts and similar pockets.

Turning Alkaline & Saline Lands into High-Value Aquaculture Hubs

ACCELERATING AQUA GROWTH PROJECTIONS: PATHWAYS TO ₹10,000 CR BY 2029-30



Exploring 4 Growth Models with Annual Growth Rates from 15% to 30%



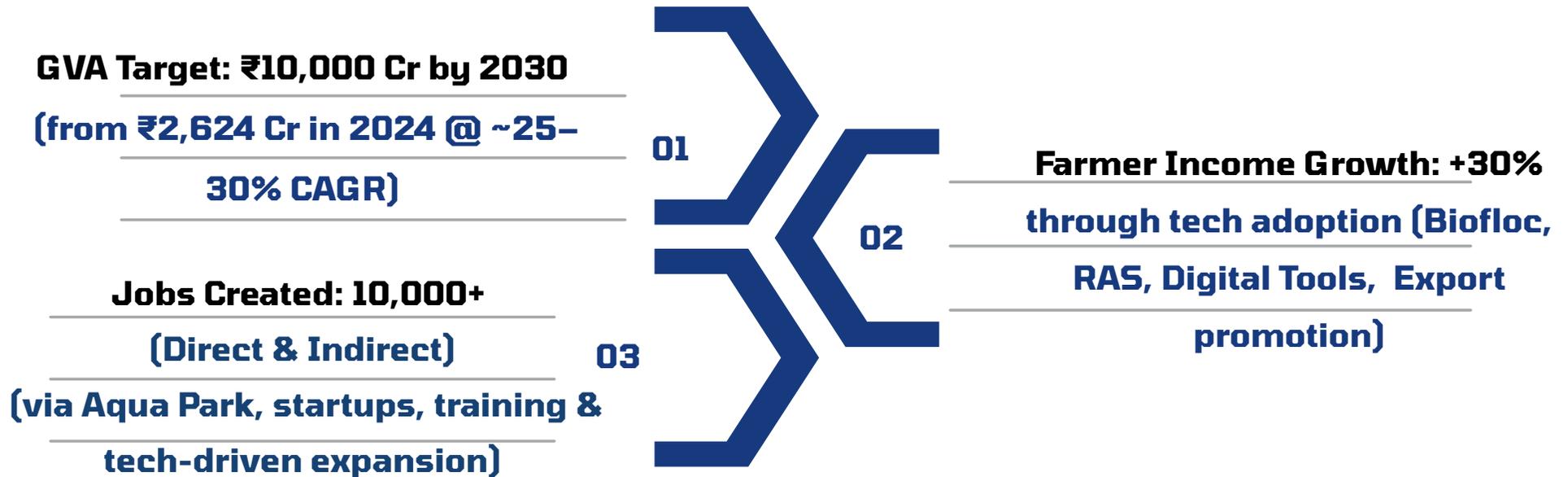
Accelerating Aqua GVA: Unlocking Land. Scaling Value. Shaping the Future

VISION FOR GROWTH: HARYANA'S AQUA LEAP



Transforming 1.0 Lakh Hectares into an Economic Powerhouse

Technology-Driven Transformation | Empowering Farmers | Export Excellence



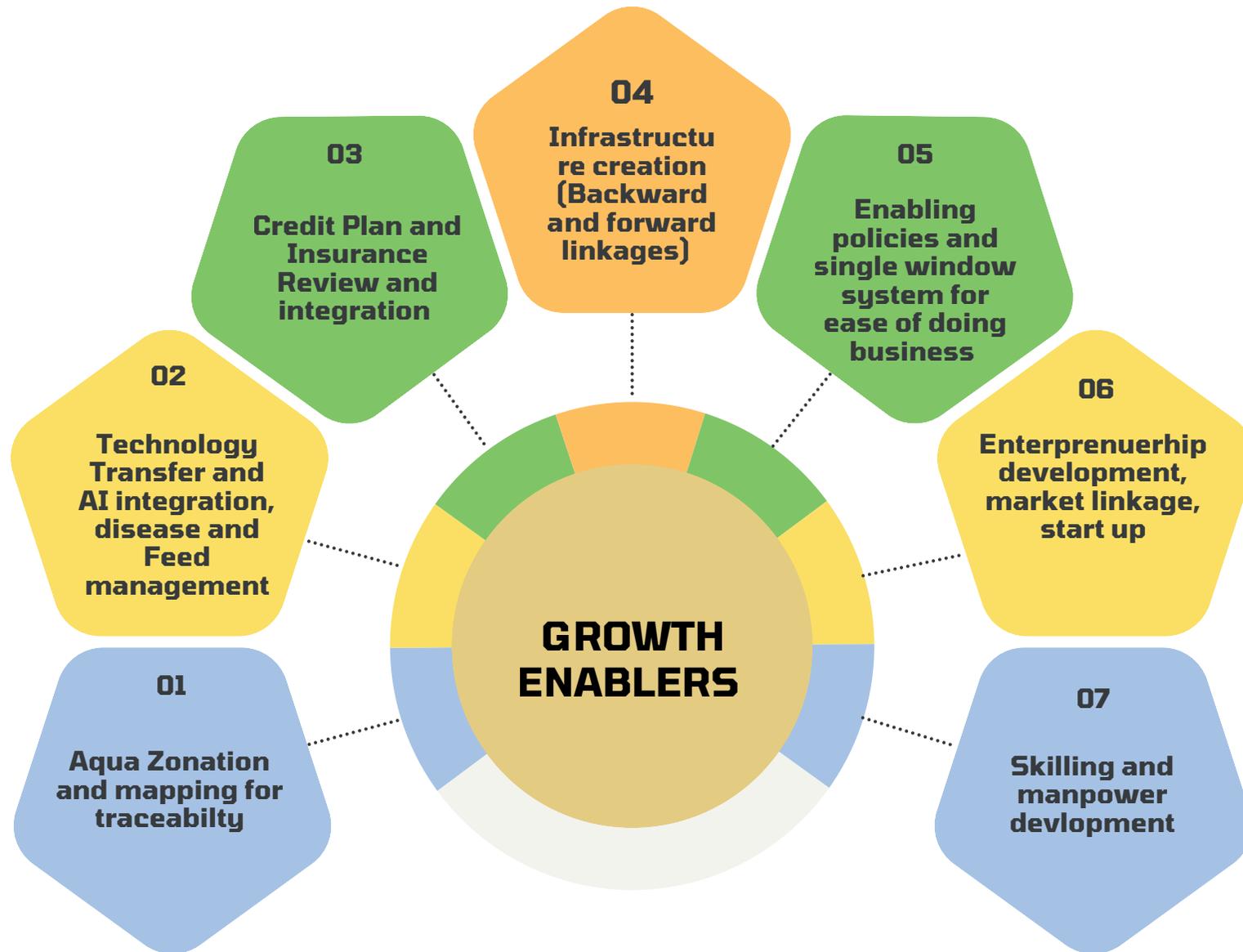
GVA Ultimate Potential: ~Rs. 25,000 Crores from Untapped Land of 2.0 lakh Hectares

To make Haryana a leader in North India in sustainable aquaculture by leveraging DeepTech, AI, and precision farming, turning untapped saline land into an economic engine for rural prosperity.

Haryana Unleashed — From Saline to Sustainable Success

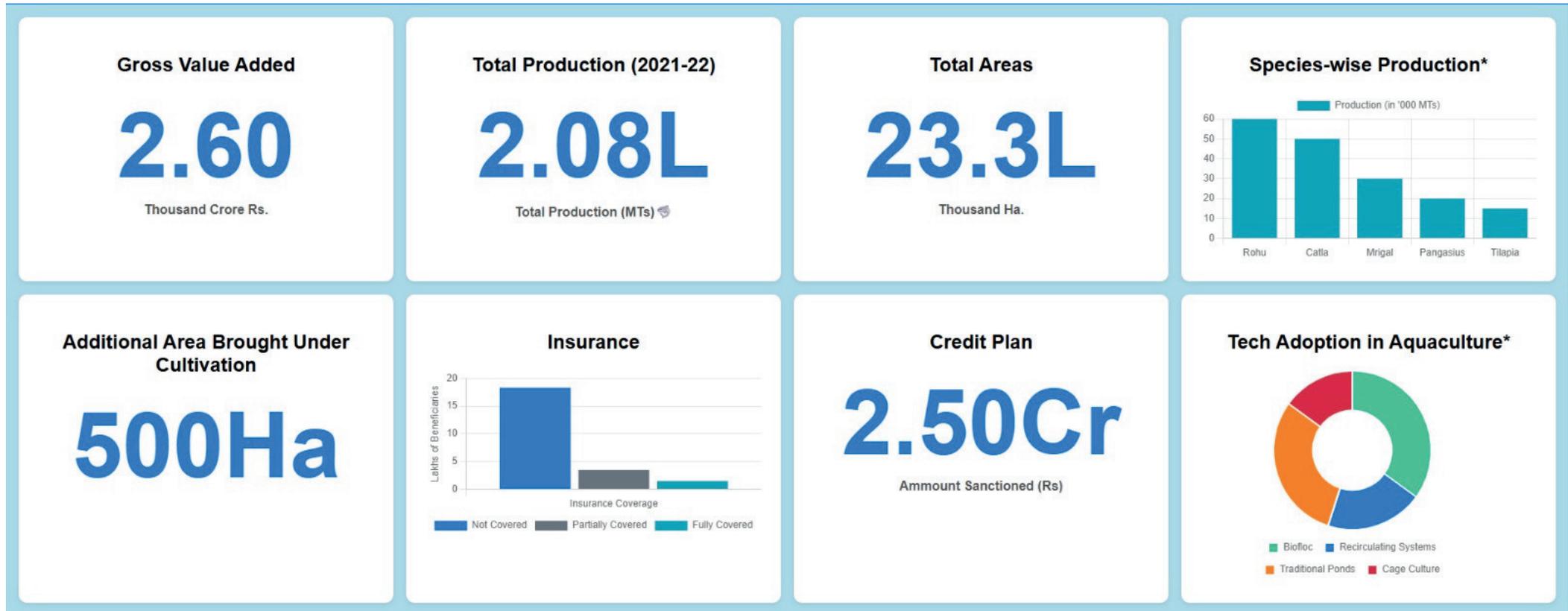


TAPPING HARYANA'S AQUACULTURE POTENTIAL



Strategic interventions. Scalable models. Sustainable growth.

DASHBOARD WITH KPIs (PROPOSED)



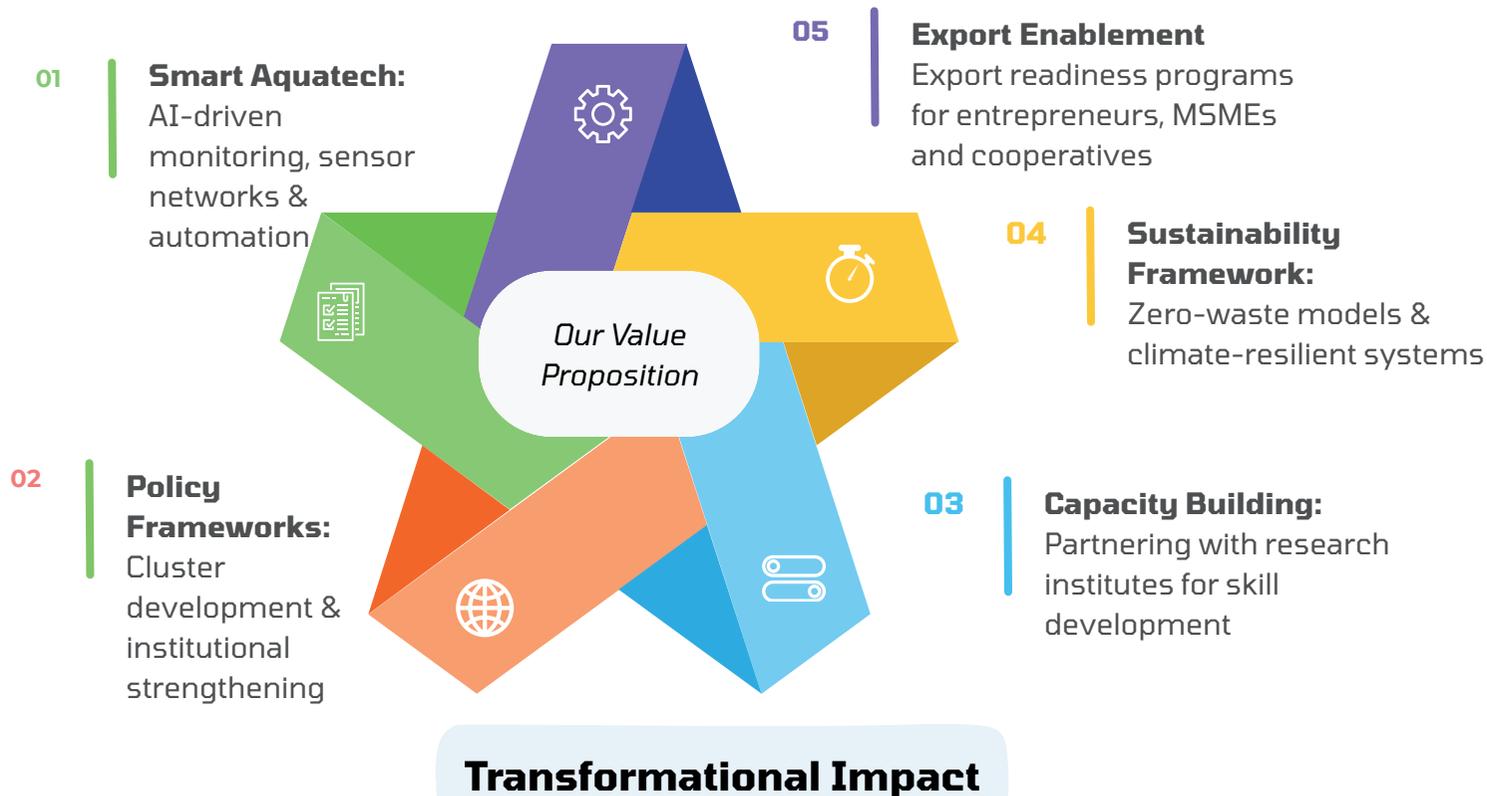
Note: Sample Dashboard with Sample Data

From Ground Reports to Ministerial Dashboards One Integrated Dashboard for Aquaculture Impact

STRATEGIC PARTNERS MAKING HISAR AQUA PARK A GLOBAL BENCHMARK



GFST & Bharat Advisors and Partners (BAP) - Creating a Center of Excellence



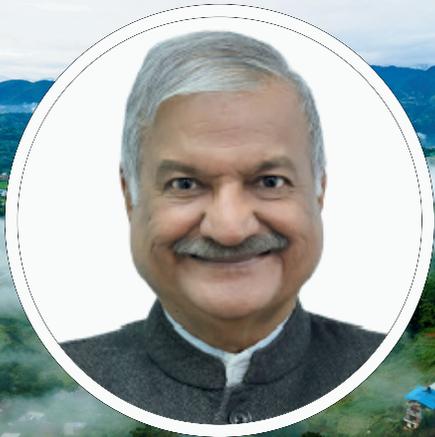
- 50+ rural youth trained annually in cutting-edge aquaculture
- 30% operational efficiency gain through AI/tech adoption

- 100% compliance with international sustainability standards
- First-of-its-kind CoE in North India for smart fisheries



ABOUT GFST AND TEAM

Meet the Team Driving the Transformation



S.P. Tucker, IAS (Retd.)
Vice Chairman & Director



Sanjay Gupta, IFS (Retd.)
Chief Executive Officer



Sridhar Seshadri
Director
Global Foresight & Innovation



Shreeram Iyer
Director
Global Impact



Raghav Bhandari
Bharat
Advisors & Partners LLP



Gaurav Gandhi
Bharat
Advisors & Partners LLP

Why Haryana Aqua?

- First landlocked state to farm shrimp using underground saline water
- 11,000 Kg/Ha fish yield — double the national average
- 90+ Biofloc units, Hisar Aqua Park (₹98.9 Cr) driving innovation
- Proximity to Delhi fuels premium pricing & export potential

Haryana Strengths

- 2.32 lakh hectares of saline/alkali soils ideal for inland aquaculture
- Declared fish culture disease-free by ICAR – a rare national distinction
- 16 RAS units, 90+ Biofloc farms, and ₹98.9 Cr Hisar Aqua Park underway
- Near Delhi NCR for fast logistics, higher market prices, and export readiness

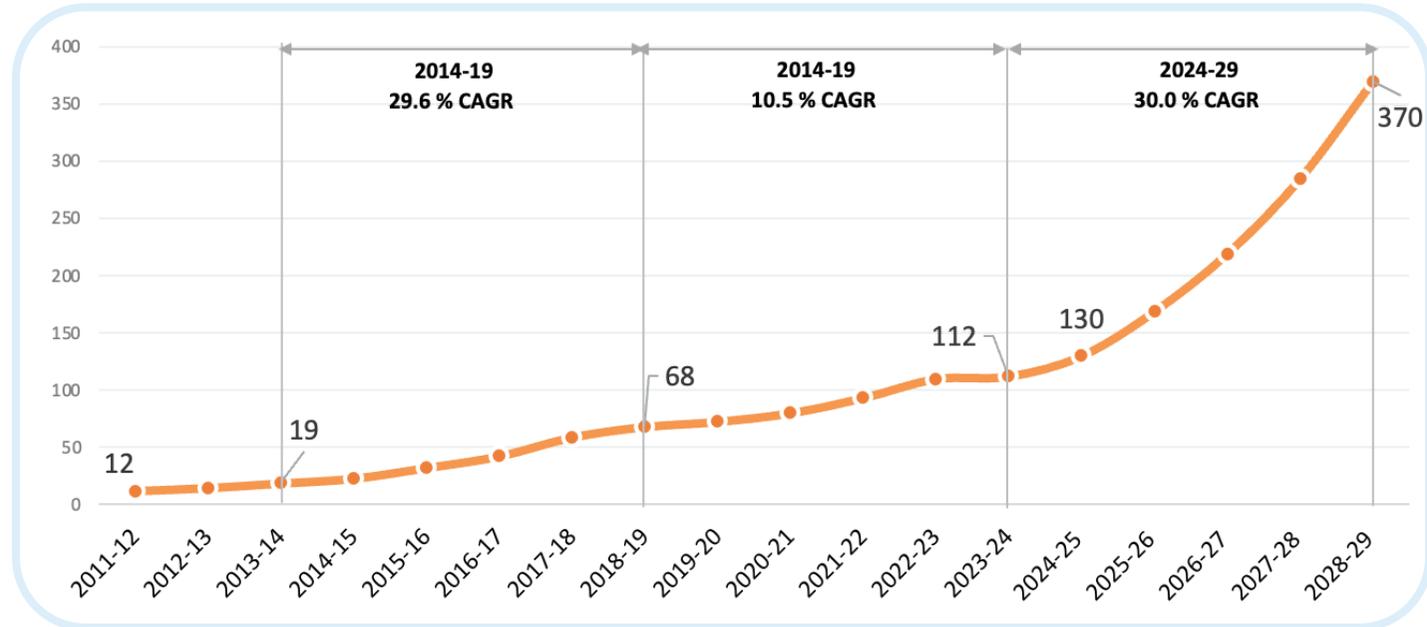
About Global Forum for Sustainable Transformation (GFST)

Accelerating Governance through Technology & Partnerships
The Global Forum for Sustainable Transformation (GFST) helps governments adopt AI, ML, Blockchain, and DeepTech to improve governance. We bring together policy experts, technologists, and administrators to deliver data-driven, inclusive, and transparent development—aligned with Viksit Bharat @2047 and global SDG goals.

Innovation, Infrastructure, and Income – Triple Edge in Aquaculture

AP Aquaculture's Evolution: Pioneering the tremendous growth

- 2015 onwards AP placed at top and moves upwards as it is (Rs. 1.3 lakh crore) double the value of 2nd place (West Bengal with Rs. 0.62 lakh crore)
- AP's expertise and robust ecosystem drive sustained growth through R&D and innovation



AP aquaculture sector took a transformative turn from 2014 onwards, tripling its output between 2014 and 2019 with an impressive 30% CAGR. The state adopted a mission-mode approach under the leadership of Sri S.P. Tucker, IAS (Retd.), allocating three times the previous budget, introducing a dedicated Aqua Policy, and formulating a comprehensive action plan to drive sustainable growth.

Once again, the state reaffirms its commitment to elevating the aquaculture sector into a thriving industry—backed by the nation's most progressive Aqua Policy, a strategic five-year action plan, the promotion of cutting-edge technologies, and comprehensive support, including targeted subsidies for stakeholders—to achieve a 30% CAGR.

AQUACULTURE INNOVATION TECH 2.0 CONCLAVE ANDHRA PRADESH



10 Lakh Acres by 2029–30 & Tripling GVA From Rs.1.29 to Rs.3.87 Lakh Crore

Conclave held in collaboration with the Department of Fisheries, Andhra Pradesh, on 16-18 February

- Comprehensive Baseline Assessment of 60,000 Aqua farmers covering 4.44 lakh acres
- 3-Day In-house Lab model involving all the stakeholders including progressive farmers, exporters, feed manufacturers etc., forming into 9 Strategic groups
- ~600 Progressive Aqua farmers participated
- Andhra Pradesh is once again committed to achieving a 30% growth rate for 2024–29 through a sustainable, ecologically balanced system



The Chief Minister announced several key strategic directives:

- Mandatory geo-tagging and traceability for all aquaculture farms in the state.
- Launch of a real-time digital payment system integrated with farm data.
- Promotion of seafood consumption in domestic markets through tie-ups with the Defence and Health Departments.
- Implementation of Aqua Stack digital infrastructure across all district fisheries offices within 90 days.
- Declaration of 12 Aquaculture Innovation Zones with modern infrastructure, incubation support, and green energy solutions.

**Conclave's core objective is to build a resilient, tech-enabled, and inclusive
Aquaculture economy in Andhra Pradesh**



GFST IN COLLABORATION WITH BHARATH ADVISORS AND PARTNERS LLP

Shaping the Next Era of Governance

**Together, let's revolutionize Haryana's
Aqua sector, empowering farmers and
creating a future of innovation, growth,
and prosperity for all!**