



# Agri Skills

Newsletter - March 2019

**Fisheries Special**

*"Sowing skills...  
...harvesting opportunities"*



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## Message From CEO

Fisheries and Aquaculture is one of the emerging areas that promises to create employment and entrepreneurship opportunities for sustainable livelihoods. The challenge is to ensure that the people working in this sector are appropriately skilled and they have access to latest know-how for increasing production to meet domestic and international demand. While it is important to create the right linkages between the fishermen and the markets, we also need to build capacity through job-specific training that can improve the incomes and empower them with latest techniques to manage post-harvest issues, processing, packaging etc with utmost hygiene to avoid wastage and other losses.

India occupies the second place globally, in Fisheries and Aquaculture, engaging 14 million people. With a total fish production of 10.07 metric tonnes, this sector contributes to 1.1% of GDP and 5.15% of the agricultural GDP. ASCI has embarked on many initiatives to collaborate with education and research institutions, training colleges and other national bodies to create outcome-based curriculum for 26 job roles in Fisheries and Aquaculture. We are also seeking private partnerships to provide training in fishing clusters across India. We are on a mission to expedite blue revolution through skill-based training.

**Dr. Satender Arya**

## Skill Development in Fisheries Sector - A Catalyst for Blue Revolution in India

Fisheries sector, comprising Aquaculture and Capture Fisheries, has shown a continuous growth of 5 to 6% over the years and there is a dire need for skilling in this sector for doubling the production and farmers' income. Skilled manpower is inevitable as this sector is moving from subsistence farming to commercial activities. Earlier, the fisheries and aquaculture industry was mostly, traditional in nature. In the last two or three decades, a lot of scientific and technical developments have taken place, giving it the commercial status, particularly in Aquaculture where new developments are taking place throughout the world.

In capture fisheries, fishing efforts have increased over the years but fish production has remained almost stagnant over the years. This phenomenon exists throughout the world and in India also. On the other hand, we need to produce more fish to meet the increasing demand for human consumption, as fish is fast becoming a healthy alternative and a cheap source of protein for many. However, production from the traditional fishing practices, in terms of capture fisheries remains the same and hence there is a need for increasing the fish production mainly through farming practices called Aquaculture.

### Top job roles for skilling in Fisheries and Aquaculture sector

In the changing scenario of fisheries and aquaculture, ASCI has identified 26 job roles in consultation with industry and institutions. In Aquaculture, we have job roles such as Aquaculture Technician, Aquaculture Worker, Freshwater Aquaculture Farmer, Hatchery Manager, Hatchery Production worker, Fish seed grower, Brackishwater Aquaculture Farmer, Shrimp Farmer, Feed Technician, Aquarium Technician, Mariculture Operator, etc. In Capture Fisheries, we have job roles like Marine fisherman, Inland fisherman, Fishing Boat Driver, Fishing Boat Deckhand, Fishing Boat Maintenance Worker, Fishing Boat Mechanic and other support services.

### Challenges

It is a challenge to change the mindset of the Institutions and capacity building providers to bring them to do a skill-based training program. As of now, they indulge mostly in knowledge-based, theoretical learning with minimum focus on skills. Most of the institutions lack quality trainers, infrastructure and environment for long-term skill-based training. We are planning to take help from the industry and private sector for this purpose. We are in the process of identifying potential training partners, training the trainers, master trainers, curriculum and content development, etc. to speed up skilling programmes in fisheries sector to meet the skilled manpower requirement.



### Entrepreneurship opportunities

There are lot of entrepreneurship opportunities in the emerging Aquaculture sector, though in initial stages. However, entrepreneurship development requires a push from the government and other institutions and it is encouraging to see some incubation centers coming up in this sector since the last five years. Though there is provision for technical support from the industry, we need financial support to sustain incubation of startups and help them accelerate and grow. When it comes to handling risks in this sector, if the business becomes sustainable, the risks get mitigated. Unlike what happened to Shrimp Farming in the 1990s with the occurrence of diseases, leading a setback to investments, inland aquaculture has remained sustainable over many decades. Nevertheless, they need insurance coverage since they are prone to losses during natural calamities like floods and cyclones.

### Skilling as a catalyst for Blue Revolution

The major aim for skill development in agriculture and allied sectors is to double the farmers' income by doubling the production. In fisheries sector, Government of India has implemented the Blue Revolution Scheme, a flagship programme to increase the fish production to 15 MMT by 2020. Out of India's production of 10 million metric tonnes, marine fisheries contribute around 3 to 4 million metric tonnes. It cannot be stretched much, as our potential is only 4.5 million metric tonnes by exploiting 80% of the resources. So, doubling the production is not possible through marine fisheries.

As per this year's budget, Government has provided an outlay of Rs 10,000 crores for National Fisheries and Aquaculture Infrastructure Development Scheme mainly for developing the infrastructure and environment for the sustainable development in this sector with multi-stakeholder involvement. Skill development forms a crucial part of the scheme to take forward the initiatives of increasing the fish production and improving the farmer's income.

## Engagement with Ministry of Agriculture

### ▲ Skilling under Rashtriya Krishi Vikas Yojana (RKVY)

Skilling through RKVY has positive impact on rural youth and farmers. A total of 450 Institutes were selected to implement 882 skill training program during 2018-19. A total of 15,615 farmers and rural youth have already been skilled during 2018-19. Courses like Mushroom Grower, Vermicompost Producer, Small Poultry farmer and Dairy Farmer/Entrepreneur were popular among farmers. More than 40 percent of farmers have chosen these job roles for the training. There are 51 job roles under which skilling have been imparted.

To streamline this training under RKVY and aligning with NSQF, ASCI conducted various Training of Trainer (ToT) program across India to conduct assessment and certification of trainers. A total of 747 trainers got certified in 11 ToTs under RKVY.



RKVY Training

### ▲ Skilling under Mission of Integrated Development of Horticulture (MIDH)

The Centrally Sponsored Scheme of MIDH which integrates the ongoing schemes of National Horticulture Mission, Horticulture Mission for North East & Himalayan States, National Bamboo Mission, National Horticulture Board, Coconut Development Board and Central Institute for Horticulture, Nagaland also joined the skill ecosystem. In this fiscal, over 3,336 candidates have been trained and certified across the country under Amenity and Production Horticulture.

## State Engagement



Global Skill Summit, Jharkhand

Hon'ble Governor Mrs. Draupadi Murmu along with Mr. Raghubar Das, Hon'ble Chief Minister Jharkhand and Mr. Dharmendra Pradhan, Hon'ble Minister MSDE inaugurated the Global Skill Summit on 10<sup>th</sup> Jan'19. ASCI participated in exhibition and apprised on different job roles, employment opportunities (self as well as wage employment) after skill training and about skill ecosystem were highlighted to the farmers, entrepreneurs, students.

State Agricultural Management and Extension Training Institute (SAMETI), Telangana organized State level workshop in Skill Development in Agriculture & Allied Sectors on 29<sup>th</sup> Jan'19. The Program was chaired by Mr. Rahul Bojja, IAS, Commissioner & Director of Agriculture, Telangana along with Mrs. G Naremani, Director SAMETI, Mrs. V Usha Rani, IAS, Director General MANAGE, Mr. D Raja Reddy, DoE of PJTSAU, Dr. S R Voleti, Director IIRR. ASCI apprised about its role in Skill Development Training activities in India, Importance of NSQF, Skill Training Program Benefits to Industry, Farmers, Employees and Unemployed Youths of the Nation, etc.



State Workshop, Telangana



**National Seminar on Seeds System, Meghalaya**

State Level Workshop on Skill Development in Agriculture and Allied Sectors by SAMETI-West Bengal, Ramakrishna Mission Ashram, Kolkata. Ms. Madhumita Chowdhury, Additional Secretary, Dept. of Agriculture and Dr. Pradip Neog, Director, Extension Education Institute, Representative of Govt. of India for NE Region delivered their views.

ASCI represented about its role in skill training and view point for upgraded skill training in particulars.

National Seminar on Strengthening of Seed Systems in the North Eastern and Unreached Regions- Problems, Prospects & Policies organized by Indian Society of Seed Technology (ISST) in association with ICAR-Research Complex for NEH, Umiam, Meghalaya from 3<sup>rd</sup> to 5<sup>th</sup> Feb'19 at Imphal, Manipur. ASCI participated and interacted for Skill requirement & entrepreneurship development in seed sector. The national seminar addressed the critical issues concerning the poor seed supply systems in the North Eastern Region and to develop a strong seed system for the region as a whole, and identifying its niche areas for improving farmers' profitability in the region.



**Seminar on Agriculture & Allied segment, West Bengal**

Government of Assam implementing project Assam Agribusiness and Rural Transformation Project (APART) which would lay special focus on value addition in production & post-harvest segments of selected agricultural commodity value-chains. CEO ASCI presented about scopes of wage employment in the field of Agriculture, necessity of end to end approach on skilling and linking all the stakeholders of Agriculture Value Chain, making farmers of the country Agriculture entrepreneurs, linking the farm labour with wage related employment in Agriculture sector, during non-farming months., Providing Certificate on the basis of skills to the farmers.



**Meeting with Govt. of Assam**

## Engagement at School Level

ASCI's 7 Qualification Packs have been accepted and introduced for school students from class 9<sup>th</sup> to 12<sup>th</sup> in collaboration with State Government under Samagra Shiksha Abhiyan. ASCI in collaboration with state education boards conducts assessments and certification of students in addition to extending other related supports.

State	No. of Schools
Himachal Pradesh	169
Haryana	107
Punjab	185
Maharashtra	258
Chhattisgarh	109
Mizoram	1
Assam	78
West Bengal	28
Telangana	12

State	No. of Schools
Andhra Pradesh	28
Rajasthan	5
Goa	15
Uttarakhand	10
Odisha	55
Jammu & Kashmir	23
Gujarat Private School	10
Maharashtra Private School	11
<b>Total</b>	<b>1148</b>



## Key Initiatives



**Stakeholder Meeting at Gurugram**

ASCI organized a Stakeholders Meeting focused on Equine and Small Captive Animal Management segment on 14th Jan'19 wherein experts from the Remount Veterinary Services (RVS), National Academy of Veterinary Services (NAVS), Brooke India and other organizations participated and contributed in identifying the skills, knowledge & competencies required for the 6 new Job Roles under development. Discussions revolved around 9 Job Roles Viz. Equine Breeder, Equine Rider & Trainer, Equine Farrier, Equine Groom, Canine Breeder, Canine Trainer, Companion Animal Groomer, Stray Animal Catcher and Zoo Animal Keeper.

ASCI organized 3 days Exposure visit & Training program for farmers of Karnataka on Farm Machineries in collaboration with ESCORTS Training and Development Centre Bengaluru from 21<sup>st</sup> to 23<sup>rd</sup> Jan'19. This visit was organized to benefit the farmers by getting them exposure on various aspects of Farm Machines and mechanized farming in India, advantages of mechanized farming, brief display of tractors, its main parts and connected implements viz. seed drill, operations in field for different crops, safety precautions while using tractors, practical exposure, basics of repair and maintenance of tractors.



**Farmers' exposure visit to ESCORTS Centre**



**CSR Project initiated at Uttara Kannada**

ASCI initiated a CSR Project in Uttara Kannada district to build the capacities of farmers with objectives to calculate profits of farming enterprises and to make farmers understand the implication of various best practices on their expenditures, incomes and profits. Such training will contribute to the decision making capacity of the farmers and thus towards the adoption of good agriculture practices. Jnana Jyothi Financial Literacy and Credit Counseling Trust to take up this project for Paddy and Sugarcane farmers along with skill enhancement through Activity Based Teaching will facilitate effective learning for the trainees.

## Apprenticeship Curriculum Development

To promote apprenticeship program in agriculture sector, ASCI has developed the Apprenticeship Curriculum for the 'Tractor Mechanic' Job Role in discussion with the industry. ASCI targets to partner with the industry in Farm Mechanization segment to promote apprenticeship in a big way.



## Rozgar Melas / Job Fairs

### ASCI organized Job Melas at 7 locations:

- ▶ Belgaum (8 to 9 Feb '19): ASCI also participated in the Skill Exhibition. Charoen Pokphand Seeds (India) Pvt. Ltd. was the major recruiter for the event & shortlisted candidates for more than 50 vacancies under various Agricultural positions.
- ▶ Sirsi (25 Feb '19): Hon'ble Minister of State, MSDE graced ASCI's stall. Totagarse Sale Co-operative Society Ltd (TSS) participated as an employer and nearly 70 candidates registered for placement drive under the Agriculture category.
- ▶ Aurangabad (14 to 15 Feb '19): Navabharat Fertilizers & Shivashakti Biotechnologies Limited were the participating employers for the event. 10 candidates got selected.
- ▶ Berhampur (18 to 19 Feb '19): Hon'ble Minister, MSDE was the chief guest. Employer like Harsha Trust participated and shortlisted 8 Candidates.
- ▶ Naubatpur, Patna (18 to 20 Feb '19): Hon'ble Minister of States for Rural Development graced the event. Three employers viz. Shivashakti Biotechnologies, Navabharath Fertilizers & Jai Kisan Horticulture Pvt. Ltd. participated. 27 Candidates were selected.
- ▶ Purnea, Bihar (27 to 28 Feb '19): Under the supervision of DRCC, Purnea, Bihar, the Rozgar Mela has been conducted. Companies like Shivashakti Biotechnologies, Navabharath Fertilizers & Jai Kisan Horticulture Pvt. Ltd. participated and shortlisted the candidates.
- ▶ Karnal, Haryana (13 Mar '19): In coordination with ISAP, the Rozgar Mela conducted at BRM College of Education. Major employers were Jain Irrigation, Chambal Fertilizers, Cristal Crop, L&T Food, Prabhat Seeds, Bayer, Khandar Agro Producer Co. Ltd., Field Fresh Food, Hari Motors, Pratap Agrotech, Janak Seeds, Newco Agri Genetics Pvt. Ltd and many more.



Rozgar Mela at Belgaum



Rozgar Mela at Karnal



Rozgar Mela at Sirsi



Rozgar Mela at Berhampur

# Capacity building through Training of Trainer & Master Trainer

Total 653 Trainers participated in 23 ToT/ToMT Program during Jan to Mar'19

- ▲ Narendra Dev University of Agriculture and Technology, Kumarganj, Faizabad, Uttar Pradesh on 28<sup>th</sup> Dec'18
- ▲ Horticultural Research Station, Assam Agricultural University, Azara, Guwahati, Assam on 3<sup>rd</sup> Jan'19
- ▲ Yoga Center, Mathura lawn Shegaon, Near Rokdiya Hanuman Temple, Shegaon Tq, Shegaon, Buldhana, Maharashtra on 3<sup>rd</sup> Jan'19
- ▲ Horticulture Research Centre, Baruasagar, Jhansi, Uttar Pradesh on 3<sup>rd</sup> Jan'19
- ▲ Punjab National Bank Farmer Training Center, Jhalawar, Rajasthan on 4<sup>th</sup> Jan'19
- ▲ Department of Fisheries, Chennai, Tamil Nadu on 7<sup>th</sup> Jan'19
- ▲ G. B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand on 7<sup>th</sup> Jan'19
- ▲ Krishi Vigyan Kendra, Karnal, Haryana on 7<sup>th</sup> Jan'19
- ▲ Sakal International Learning Centre, Pune, Maharashtra on 8<sup>th</sup> Jan'19
- ▲ Mobile Agriculture School, Angara, Ranchi, Jharkhand on 8<sup>th</sup> Jan'19
- ▲ Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh on 9<sup>th</sup> Jan'19
- ▲ Xavier Institute of Development Action and Studies, Mandla Road, Tilhari, Jabalpur, Madhya Pradesh on 14<sup>th</sup> Jan'19
- ▲ Government Model Nursery, Directorate of Horticulture & Farm Forestry, Kanhasiya, Bhopal, Madhya Pradesh on 15<sup>th</sup> Jan'19
- ▲ Extension Education Institute, Anand, Gujarat on 17<sup>th</sup> Jan'19
- ▲ Farmers Training Centre, PNB, Jhalawar, Rajasthan on 4<sup>th</sup> Feb'19
- ▲ Scope Training and Consulting Pvt. Ltd. Patna, Bihar on 5<sup>th</sup> Feb'19
- ▲ Gram Tarang Employability Training Services Pvt. Ltd., Gajapathi, Orissa on 5<sup>th</sup> Feb'19
- ▲ Gram Tarang Employability Training Services Pvt. Ltd., Gajapathi, Orissa on 8<sup>th</sup> Feb'19
- ▲ Department of Fisheries, Nandanam, Chennai on 11<sup>th</sup> Feb'19
- ▲ Chennai on 1<sup>st</sup> Mar'19
- ▲ KVK Kolhapur on 2<sup>nd</sup> Mar'19
- ▲ Horticulture Research Centre, Jhansi on 5<sup>th</sup> Mar'19
- ▲ Sakal International Learning Centre, Pune, Maharashtra on 11<sup>th</sup> Mar'19
- ▲ Bhubaneswar, Odisha on 8<sup>th</sup> Mar'19



ToT at Uttar Pradesh



ToT at Maharashtra



ToT at Rajasthan



ToT at Odisha

## Training of Assessor

- ToA conducted in Bengaluru from 18<sup>th</sup> to 23<sup>th</sup> Jan'19. This program was targeted to new assessors only, who have completed assessment for less than 100 candidates or 5 batches, in skill ecosystem. Total 17 Assessors from 4 different Assessment Agencies registered their participation in the program.
- The program organized for the new assessors of Maharashtra State Council of Vocational Training (MSCVT) in Nagpur. from 1st Feb'19. 31 assessors have attended the program Group Farming Practitioner job role.
- ToA program scheduled for the assessors of Maharashtra State Council of Vocational Training (MSCVT) in Government Industrial Training Institute, Nanded from 5<sup>th</sup> Feb'19 where 27 assessors have registered their presence for Group Farming Practitioner job role.
- Training of New Assessors program organized for the assessors of Maharashtra State Council of Vocational Training (MSCVT) in Regional Office, Directorate of Vocational Education and Training, Nagpur. The program was scheduled from 27<sup>th</sup> Mar'19. 72 assessors have registered their presence for Group Farming Practitioner job role.



ToA at Nagpur



ToA at Nagpur



ToA at Bengaluru



ToA at Nanded

## Governing Council Meeting

The 24<sup>th</sup> Meeting of the Board of Governing Council was held on 9<sup>th</sup> Mar'19. The Governing Council members were apprised about the new initiatives and collaborations viz. Training of Trainer / Master Trainers programs, Universities MoUs, Skilling under Bihar Skill Development Mission (BSDM), IndiaSkills 2018 and Rozgar Melas/Placements.



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