

राष्ट्रीय उत्पादकता परिषद्

(वाणिज्य एवं उद्योग मंत्रालय, भारत सरकार के अन्तर्गत)

उत्पादकता भवन, 5-6, इंस्टीट्यूशनल एरिया,
लोदी रोड, नई दिल्ली -110 003



National Productivity Council

NATIONAL PRODUCTIVITY COUNCIL

(Under Ministry of Commerce & Industry, Govt. of India)

Utpadakta Bhavan, 5-6, Institutional Area,
Lodi Road, New Delhi - 110 003

No. 31112/21

Dt. 27-09-2021

Sub: 21-CL-12-GE-TRC-B: Training Course on Innovative Aquaculture Models from 16-18 November 2021, Digital Multicountry (DMC).
(Visit www.npcindia.gov.in/NPC/User/InternationalServices for detailed Project Notification.

Dear Sir,

We invite your kind attention to NPC <https://www.npcindia.gov.in/NPC/User/InternationalServices> with regard to above Asian Productivity Organization (APO) project. The project notification and the APO bio data form are available on the above mentioned page and the same are also attached herewith. The duly filled in **single copy** of Performa enclosed (in excel form only) of the suitable officers for participation as per the para (**Qualifications for Participants**) of the project notification may kindly be forwarded to reach us latest by **22nd, October 2021**. In this regard, the following points may be noted.

- **Fees and Charges**

The Participation fees (NON-REFUNDABLE) of Rs. 500/- for MSME Sector, Trade Unions and NGO's and Rs. 1000/- for others is payable along with the nomination form for each participant.

The requisite amount can be paid through a demand draft/cheque/ECS drawn in favour of National Productivity Council, New Delhi. In the regard, the bank account of NPC details is attached herewith. Kindly e-mail the details of the ECS/RTGS/NEFT payment made, **mentioning the name of applicant in remarks**, to mayank.verma@npcindia.gov.in, isg@npcindia.gov.in, rk.rawat@npcindia.gov.in. Please note, in the absence of application fee, the nomination will not be considered.

- **Nomination Procedure**

All nominations should be routed through proper channel and as per the attached APO bio data form. The nominations received after the last date will not be considered. It is the responsibility of the candidates to complete all the official formalities required by their organizations/department for participating in the program.

It is requested to send nominations by e-mail to mayank.verma@npcindia.gov.in, isg@npcindia.gov.in, rk.rawat@npcindia.gov.in (application in prescribed excel format) and one hard copy by post along with the covering letter of the competent authority on company's letter head. All information pertaining to nominations will be treated as confidential and classified. The nominated officers may be invited as a faculty in programs on the relevant subject/s, organized by NPC.

We look forward to receiving of nominations from your esteemed organization.

Thanking you,

Yours faithfully,

(K.D. Bhardwaj)
Director & Head (Int'l Serv.)
for Director General
e-mail: isg@npcindia.gov.in



PROJECT NOTIFICATION

Ref. No.: 21-CL-12-GE-TRC-B-PN2100076-002

Date of Issue	24 September 2021
Project Code	21-CL-12-GE-TRC-B
Title	Training Course on Innovative Aquaculture Models
Timing and Duration	16–18 November 2021 (three days)
Hosting Country(ies)	Bangladesh
Modality	Digital Multicountry
Implementing Organization(s)	National Productivity Organisation, Ministry of Industries, Bangladesh, and APO Secretariat
Participating Country(ies)	All Member Countries
Overseas Participants	38
Local Participants	12
Qualifications of Participants	Government officials, academics, researchers, representatives of professional associations, and consultants in charge of training and consultancy to promote aquaculture farming systems
Nomination of Participants	All nominations must be submitted through National Productivity Organizations of member countries
Closing Date for Nominations	22 October 2021

1. Objectives

- a. Promote tools and techniques of modern aquaculture systems.
- b. Examine strategies, approaches, and guidelines to develop small-scale aquaculture business plans.
- c. Share successful innovative aquaculture models and good management practices.

2. Background

Humans have exploited marine and freshwater habitats for millennia. The protection of marine and freshwater species and aquatic life is therefore vital for the preservation of the environment, biodiversity, and ecology, hence ensuring balance in the natural ecosystem. Aquaculture, also known as aqua farming, is the cultivation of aquatic organisms in both coastal and inland areas. The aquaculture rearing process enhances the production of fish, mollusks, crustaceans, and aquatic plants. Eating fish and aqua products is a time-honored cultural tradition in many societies. They are good sources of protein, fatty acids, vitamins, minerals, and essential micronutrients, thereby providing excellent nutritional and health benefits.

Global food security issues arising from population increases and rising protein requirements fuel the growth of the aquaculture market. Demand for zooplankton, a major source of protein, boosts the growth of aquaculture further. This is supported by technological advances in rearing fish and cultivating sea plants. The Food and Agriculture Organization of the United Nations reported that aquaculture is growing faster than other major food-production sectors (The State of World Fisheries and Aquaculture, 2018). The global aquaculture market size was valued at USD285 billion in 2019 and is projected to reach USD378 billion by 2027, with a 5.8% compound annual growth rate (www.alliedmarketresearch.com/aquaculture-market). Asia dominates global aquaculture, accounting for 92% of total production.

There are several types of aqua farming differentiated by water type (marine or fresh water), species raised (mono- or polyculture), water flow (closed or open system), and cultivation intensity (extensive, semi-intensive, or intensive). In recent years, innovative technologies and practices have gained recognition for improving the productivity of aquaculture. Examples include fish-feed alternatives and integrated fish farms such as rice-fish systems.

This course will familiarize participants with the tools and techniques for modern, innovative aquaculture systems. It will also discuss the benefits of new, emerging opportunities in aqua farming and offer a guide to developing small-scale aquaculture-related business plans.

3. Scope, Methodology, and Certificate of Attendance

The duration of each day's sessions will be around three hours, comprising presentations by experts, group discussions, and other relevant learning methods. The indicative topics of the course are:

Day 1:

- Opportunities, types, tools, and techniques of modern aquaculture

Day 2:

- New, innovative aquaculture models and guide to developing small-scale aquaculture business plans

Day 3:

- Good aquaculture feed and management practices

The detailed program and list of speakers will be provided two weeks prior to the sessions with announcement of the names of the selected participants.

The participants are required to attend all sessions. This full participation is a prerequisite for receiving the APO certificate of attendance.

4. Financial Arrangements

- a. The APO will meet the assignment costs of overseas resource persons and honorarium for up to two local resource persons.
- b. The host country will meet the costs for a virtual site visit(s), either broadcast live or recorded as applicable.

5. Implementation Procedures

Please refer to the implementation procedures for APO digital multicountry projects circulated with this document.

A handwritten signature in black ink, appearing to read 'Dr. AKP Mochtan', with a long, sweeping flourish extending upwards and to the right.

Dr. AKP Mochtan
Secretary-General