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The Ministry of Foreign Affairs of the Republic of Turkey presents its compliments to the D-8 Secretariat and has the honour to enclose herewith the draft project document of the Training Program obtained from the Ministry of Food, Agriculture and Livestock of the Republic of Turkey on "Training of Trainers for Aquaculture Extension and Technique for D-8 Member Countries" proposed to be held on 9-14 March 2015 in Turkey.

The Ministry of Foreign Affairs of the Republic of Turkey avails itself of this opportunity to renew to the D-8 Secretariat the assurances of its high consideration.

Ankara, 09 September 2014

Encl.



D-8 Secretariat
Istanbul



**TRAINING OF TRAINERS FOR AQUACULTURE EXTENSION AND
TECHNIQUES
FOR
D-8 MEMBER COUNTRIES**

1. **Date of Entry** : 9 - 14 March 2015
2. **Applicant** : The Government of **REPUBLIC of TURKEY**
3. **Project Title** : Training Program on “ Training of Trainers for Aquaculture Extension and Technique for D-8 Member Countries ”
4. **Contact Point (Implementing Agency)** : Ministry of Food Agriculture and Livestock, General Directorate of Fisheries and Aquaculture (GDFA)

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5. Background of the Project

In Turkey, Ministry of Food Agriculture and Livestock (hereinafter referred to as “MoFAL”) is main responsible authority on Fisheries and Aquaculture inter alia other agricultural issues. MoFAL’s one of the main responsibilities is to develop fisheries and aquaculture in country. In line with this target, MoFAL has been willing to make cooperation with D-8 Countries Competent Authorities on fisheries and aquaculture. Main aim of this project is; to transfer expertise gained from aquaculture production and techniques in Turkey. Activities will focus on training of trainers on aquaculture extensions and techniques to improve aquaculture technical capacity of D-8 Member Countries experts.

On behalf of the Republic of Turkey, MoFAL has carried out several international projects through such international agencies as TİKA, JICA, FAO and EU related Institutions. As a result of these projects many aquaculture production techniques were succeeded and improved in Turkey.

With help of aforementioned International projects, not only DG Fisheries and Aquaculture (DGFA) of MoFAL but also Central Fisheries Research Institute Trabzon (SUMAE), Mediterranean Fisheries Research Production and Training Institute (AKSAM) and private sector has become capable institutions to be able to share their knowledge and experiences on aquaculture techniques and training area with other organizations and individuals both in Turkey and abroad.

In addition, MoFAL has experiences on international cooperation in the field of aquaculture. For instance; MoFAL organized a Participation program to the "Future Fish Eurasia 2007 and 2014, Fisheries and Aquaculture Equipment" held in Istanbul and İzmir, for Balkan and Central Asian Countries representatives (Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan, Turkmenistan, Albania, Bosnia Herzegovina, Kosovo, Macedonia, Georgia) with joint project with the Turkish Cooperation and Coordination Agency (hereinafter referred to as TIKA). A Regional Workshop on "Inland Fisheries and Aquaculture in Central-Asia: Status and Development Prospects" was held at the Mediterranean Fisheries Research Production and Training Institute (AKSAM) in Beymelek-Demre, Antalya, from 11 to 14 December 2007. This workshop was jointly organized by the MoFAL, TIKA and FAO and was attended by 35 participants from the Central Asian countries (i.e. Kazakhstan, Kyrgyz Republic, Tajikistan, Turkmenistan and Uzbekistan) and Turkey including FAO, MoFAL and TIKA representatives. The Project on Establishment of Konjic Fisheries Production Center in Bosnia Herzegovina has been implemented by MoFAL and TIKA. The Project on Establishment of Ton Hatchery Center in Kyrgyzstan has been implemented by MoFAL and TIKA. and etc...projects.

Based on this fact and MoFAL's capacity and experiences on aquaculture, DGFA, MoFAL would like to share experience gained from aquaculture production and support to increase aquaculture production capacity D-8 Countries experts. Mean time this project will benefit to D-8 Member Countries to increase collaboration and will boost to cooperation in fisheries areas.

6. Outline of the Project

(1) Overall Goal

To contribute sustainable aquaculture development and exchange aquaculture experience in D-8 Member Countries

(2) Project Purpose

To introduce aquaculture technology in the D-8 member Country(ies), to support and improve capacity building through training of trainers program. End of this project the report and recommendation will be produce for D-8 Member Countries to take further action.

(3) Outputs

- (1) Information and experience of Turkey and D-8 Member Countries on aquaculture technology are shared.
- (2) Participants are encouraged on development of aquaculture sector in target countries.
- (3) Action plan to improve the aquaculture sector of the target country is formulated by the participants.

(4) Area to be covered by the Project

Training program will be designed and implemented for D-8 Member Countries competent authorities representatives and private sector.

(5) Project Activities

During the Training Program on Development of Sustainable Aquaculture and production techniques to be implemented in Turkey in D-8 Member Countries, staffs of public and private sectors including administrators, researchers and academicians will be trained on Aquaculture, and below activities will be conducted in the course of training program.

1- Need analysis and program formulation (clarification of target / outcome) with help of MoFAL Central Authorities and Research Institutes.

2- Implementation of training courses in Turkey about 1 week in English (see Annex).

3- Follow-up and monitoring with help of D-8 Secretariat.

(6) Input from the Recipient Government

- MoFAL will appoint and provide a staff as counterpart/focal point, who will be responsible for organizing in daily operational matters and be close collaboration with other parties and invited countries.

- Arrange and assign lecturers and instructors,

- Provide facilities for training,

- Securing budget for implementation of the program (the budget would be shared among MoFAL, and D-8 Member Countries on item basis)

(7) Implementation Schedule

09 - 14 March 2015

(8) Description of Implementing Agency

The Ministry of Food Agriculture and Livestock (MoFAL) is the basic public organization responsible for management, organization, protection, development and technical support of fisheries and aquaculture sector with four General Directorates.

The main functions and responsibilities of the MoFAL are as follows:

- to determine and promote the main principles of sustainable fishery and aquaculture in the seas and inland waters,

- to determine the principles related to the establishment of fishing ports and fisheries infrastructure and to control them,

- to protect fisheries and aquaculture resources, to determine production and farming areas and to take the necessary measures in order to protect those areas from possible damages,

- to determine the principles related to the fisheries and aquaculture to be imported/exported and their inputs,
- to function for the purpose of developing fisheries and aquaculture and increasing efficiency. Hence, to control and making them to be controlled,
- to take measures related to the supply of necessary inputs for the purpose of increasing production and sufficiency of fisheries and aquaculture,
- to determine principles related to the production areas appropriate for fisheries and aquaculture. Hence, to determine the minimum quality and conditions required and to determine principles for their rent and use,
- to carry out work about the research and development projects related to fisheries and aquaculture,
- to create an information system about fisheries and aquaculture.

According to the existent structuring;

- the aquaculture and fishing activities are under the responsibility of the **DG of Fisheries and Aquaculture**,
- the **DG of Food and Control** animal healthy, quality control and marketing chain executes,
- the **DG of Agricultural Researches and Policies** is responsible for fisheries researches,
- the **DG of Agricultural Reform** provides support for fisheries organizations (unions and cooperatives).

Aquaculture activities have been conducted by Aquaculture Department of DG of Fisheries and Aquaculture with 21 staff in central unit and 81 province directorates related section.

Central Fisheries Research Institute (SUMAE), Trabzon

The objective of the institute is to conduct scientific researches in the field of marine and inland fisheries and aquaculture; and to collect national data and evaluate them for the national fisheries and aquaculture researches. It is one of the Institute's tasks to do fisheries researches in the Black Sea, the Marmara and the Northeast Anatolia regions.

The activities of the institute display genuine studies in the scientific field and provide practical and economic knowledge for those who are involved in the fisheries. It also tries to contribute to the national and regional development. Therefore, it is assisting the decision makers regarding the incentives for fisheries and aquaculture management.

Personnel statues of institute:

Research fellows: 54 (Ph.D: 10, Post-graduate: 24, Undergraduate: 20,)
Administrative personnel: 48; (Civil servant: 14, Worker: 31, Contractual: 3)

**Mediterranean Fisheries Research Production and Training Institute (AKSAM),
Antalya**

AKSAM established in December 4, 2004 with combination of former Bodrum Fisheries Research Institute and Kepez Fisheries Production Center has three main units which are Kepez, Demre and Eđirdir. Kepez and Eđirdir Units are extensively in charge with fresh water fish production and researches, and Demre Unit is in charge with marine fisheries production and researches.

The main aim of the AKSAM is to increase the knowledge and experience concerning fisheries and aquaculture for the staff and different groups working in this field, and to contribute to the scientific development of the sector. It also develops and provides a regional and national perspective to the sector for all Mediterranean, Aegean and Marmara region.

Personnel statuses of institute:

Research fellows: 70 (Ph. D: 8, Post-graduate: 42, Undergraduate: 20,)
Administrative personnel: 78; (Civil servant: 22, Worker: 53, Contractual: 3)

9. Related Information

Prospects of further plans and actions/ Expected funding resources for the Project:
Based on the outcomes of this project, it is expected to make clear the needs of these countries on aquaculture such as hatchery, fish feed plant and prepare investment project to canalize another funding institutions in the countries. End of this project the report and recommendation will be produce for D-8 Member Countries to take further action.

10. Global Issues (Gender, Poverty, Climate change, etc.)

Gender issue will be considered during the participant selection. In addition, the program promotes alleviation of poverty.

11. Environmental and Social Considerations

Training program will also cover environmental interaction of aquaculture and social aspects.

12. Beneficiaries

Senior aquaculture experts

13. Security Conditions

Project site and areas to be visited in the field trip are all secure and safe.

14. Others

SUMAE and AKSAM will actively take part in the Training Program, and their facilities and equipment will be utilized.

TENTATIVE CURRICULUM OF THE COURSE (09-14 March 2015)

A. First Part: Antalya

Mediterranean Research Production and Training Institute (AKSAM)

DATE	TIME	SUBJECT	INSTITUTION
March 8 Sun		Arrival to Antalya	
March 9 Mon	09:00-09:30	Opening Ceremony	DGFA, AKSAM
	09:30-10:15	Orientation & History and Culture of Türkiye	DGFA
	10:15-10:30	<i>Coffee Break</i>	
	10:30-12:00	Keynote Lecture: History and Recent Development of Aquaculture in TURKEY	DGFA
	12:00-13:00	<i>Lunch Break</i>	
	13:00-13:30	Introduction to AKSAM	AKSAM
	13:30-14:15	Rainbow Trout Production	AKSAM
	14:15-14:30	<i>Coffee Break</i>	
	14:30-17:30	Observation at the Facilities of AKSAM - Kepez	AKSAM
	19:00-21:00	<i>Opening Reception</i>	

March 10 Tue	09:00-09:30	Artificial Propagation of Carp and Stock Enhancement	AKSAM
	09:30-10:00	Economic Analysis of Trout Farms	AKSAM
	10:00-10:15	<i>Coffee Break</i>	
	10:15-11:15	General View to Fish Nutrition	AKSAM
	11:15-12:00	Live Fish Transportation	AKSAM
	12:00-13:00	<i>Lunch Break</i>	
	13:00-13:45	Production of Aquarium Fish	AKSAM
	13:45-14:00	<i>Coffee Break</i>	
	14:00-14:30	Fish Vaccines and Vaccination Methods	AKSAM
	14:30-15:00	Environmental Management in Inland Aquaculture	AKSAM
	15:00-15:15	<i>Coffee Break</i>	
	15:15-16:00	Fish Diseases; Sampling and Hygiene	AKSAM
	16:00-16:45	Parasitical Fish Diseases	AKSAM
	17:00-18:00	Visit to Fish Processing Plant (Antalya Balıkçılık)	AKSAM

18:00 Departure from Kepez to Beymelek by bus (140 km)

March 11 Wed	09:00-09:15	Introduction to Beymelek Branch of AKSAM	AKSAM
	09:15-10:00	Seed Production of Sea Bream	AKSAM
	10:00-10:15	<i>Coffee Break</i>	
	10:15-11:15	Seed Production of Sea Bass	AKSAM
	11:15-11:30	<i>Coffee Break</i>	
	11:30-12:30	Environmental Management in Marine Culture	AKSAM
	12:30-13:30	<i>Lunch Break</i>	
	13:30-14:00	Live Food Production	AKSAM
	14:00-14:30	Lagoon Management	
	14:30-16:00	Observation at the Facilities of AKSAM-Beymelek	AKSAM

18:30 Departure from Beymelek to Antalya by bus (140 km)

21:00 Departure from Antalya to Trabzon (2-hours flight)