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EU-ZIRA3A  
EU Integrated Rural Development Programme for  
Egypt - Contribution Agreement ENI/2021/427-389.  
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## 1. BACKGROUND INFORMATION

### 1.1. Partner country

Egypt

### 1.2. Contracting authority

Italian Agency for Development Cooperation (AICS) – Cairo Office- EU-ZIRA3A - EU Integrated Rural Development Programme for Egypt

### 1.3. Country background

In 2016 Egypt adopted its "Sustainable Development Strategy - Vision 2030" (SDS), which reflects the country's vision for inclusive, sustainable, and participatory development, encompassing the three economic, social and environment dimensions. Recently the Egyptian Government has been implementing new policies to achieve the main objectives of the Agriculture Sustainable Development Strategy through actions such as amending the agricultural cooperative law, developing a farm registry system ("the farmer smart card") as well as the extension system through a range of mobile applications for specific crops and developing climate-smart technologies and enhancing the agricultural education system. The EU is committed to support partner countries through external policies and instruments. With an on ongoing portfolio of 1.4 billion EUR, the European Union is a key partner of Egypt. Under the EU/Egypt Partnership Priorities 2017-2020 and Single Support Framework (SSF) 2017-2020, the EU and Egypt acknowledged the importance of building a stable and prosperous Egypt with an indicative allocation of 432 to EUR 528 million. The SSF clarifies the sectors of intervention directly derived from Partnership Priorities. The three priority sectors are: 1- Economic modernization, energy, environment (40%), 2- Social development and protection (40%) and 3- Governance, enhancing stability and modern democratic state (10%). These are aligned with the key strategic government planning documents, namely the "Sustainable Development Strategy - Vision 2030".

In November 2022, The EU delegation in Egypt and The Italian Agency for Development Cooperation (AICS) signed the contribution agreement to implement "EU-ZIRA3A", the EU Integrated Rural Development Programme for Egypt. The Programme has been designed to support the Egyptian Government in its implementation of the Sustainable Agricultural Development Strategy (SADS) and to support the socio-economic development in the three governorates of Assiut, Sohag and Beni Suef. EU- ZIRA3A will help to improve the livelihood of the rural communities in these governorates by providing support to the smallholder farmers, their families, their cooperatives as well as the institutional bodies in charge of agriculture and rural development both at the central and governorate level. The Programme will mainly focus on mitigating water scarcity; however, it also aims to provide eminent agricultural extension services, improve livestock wealth and explore new and innovative solutions for generating income, notably for rural women and youth. The EU-ZIRA3A has two specific objectives:

- Specific objective 1 (SO1): The central Egyptian authorities and their representations in the three governorates of Sohag, Assiut and Beni Suef are reinforced in their action towards a sustainable rural development of the Nile valley.
- Specific objective 2 (SO2): The capacities of the rural population in the three governorates of Sohag, Assiut and Beni Suef are reinforced with increased agricultural economic opportunities, notably for women, and increased opportunities for training and education.

### 1.4. Current situation in the sector

Agriculture has an important potential role in fighting poverty: it has indeed the highest multiplier effect on poverty reduction compared to any other productive sector in Egypt, in that a 1% increase in agriculture GDP reduces poverty by 3%. Agriculture is in fact the most important socio-economic sector for most of the Egyptian population. Even if its GDP share reaches only 14.5%, it contributes to 28% of all jobs and it is the main economic source of income for about 55% of the population. Agriculture is



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also particularly important for Egyptian women as it employs about 45% of all women in the workforce. In addition, industries related to agriculture, such as food and food processing, marketing and input supplies account for another 20% of GDP, which means that, in total, agriculture and related agro-industries and services account for more than a third of the Egyptian GDP. Egyptian agriculture is concentrated mainly in the so-called “old lands” (5,4 M feddans) formed by the Nile valley and delta occupying only 3% of the Egyptian territory. The remaining cultivated areas called the "new lands", have been reclaimed from the desert through projects progressively implemented by the government and the private sector since the beginning of the 1960 (2.5 M feddans). About 90% of the Egyptian population is living in the Nile valley and delta, something which increases pressure on these fertile lands, amplified by the high population growth and the consequent urbanization that the Egyptian authorities are trying to control.

The Agricultural extension is an essential sector of the Ministry of Agriculture (MALR), as it aims to provide technical assistance to farmers to improve quantity and quality of cultivated crops. In addition, it supports the livestock sector and sustainable management of natural resources, particularly irrigation water. The agricultural extension acts as a link between research centres and rural communities, focusing on identifying the actual needs of rural communities and providing scientific and practical recommendations. However, the agriculture extension services face several challenges such as shortage of facilities, limited number and capacity of extension providers. Strengthening Egypt’s extension system to use of digital Information and Communications Technologies (ICTs) comes as priority to cope better with these difficulties and to expand its outreach.

### 1.5. Related programmes and other donor activities

All activities in this contract will be conducted under the supervision of the Italian Agency for Development Cooperation (AICS) – Cairo Office- EU-ZIRA3A - EU Integrated Rural Development Programme for Egypt, only, and in cooperation with the Egyptian Ministry of Agriculture and Land Reclamation (MALR).

### 1.6. Overall objective

The overall objective (Impact) to which this action contributes is:

To improve the living conditions and revenues of the smallholder farmers and their communities in the governorates of Sohag, Asyut and Beni Suef, through a sustainable and integrated approach to rural development while addressing the issues of increasing resource scarcity in a context of quick population growth.

### 1.7. Specific objective(s)

The specific objective of this contract is as follows:

- The capacities of the rural population in the three governorates of Sohag, Asyut and Beni Suef are reinforced with increased agricultural economic opportunities, notably for women, and increased opportunities for training and education.

*This is the Specific Objective 2 (SO 2) of the EU-ZIRA3A Programme as mentioned in the Programme’s description of the action.*

### 1.8. Expected outputs/results to be achieved by the contractor:

The expected outputs of this contract as mentioned in the EU-ZIRA3A description of the action, under Specific objective 2) are:

- 2.1: The agriculture extension system is strengthened towards a sustainable management of natural resources and agrifood-ecosystems, and



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- 2.2: Animal wealth resources are improved and diversified.

The contractor is responsible for providing the Work Packages which are mentioned in the EU-ZIRA3A description of the action, Specific objective 2 under Expected results (outputs) 2.1 and 2.2, described below:

**i.) Work Packages Related to Output 2.1**

- ❖ WP 2.1.1.: Developing extension plans according to Good Agricultural Practices (GAPs) and climate-smart agriculture.
- ❖ WP 2.1.2. Training of the trainers: extensionists of the MALR and Water User Associations (WUAs) and other relevant organizations are trained to deliver the new extension plans.
- ❖ WP 2.1.3. Rolling out the extension plans in the three governorates.

**ii.) Work Packages Related to Output 2.2**

- ❖ WP 2.2.1. Increasing knowledge of the situation and needs of the animal husbandry in the targeted governorates.
- ❖ WP 2.2.2. Building the capacity of veterinary providers and raising farmer awareness to veterinary services.
- ❖ WP 2.2.3. Improving profitability of the animal husbandry through the development of circular and local economy.

## 2. ASSUMPTIONS & RISKS

### 2.1. Assumptions underlying the project.

The overall assumption for ensuring the Programme effective implementation with a sustainable impact on targeted beneficiaries is that the Programme receives full institutional support from all relevant stakeholders. This first requires political stability, then the commitment of all governmental stakeholders from national to local level and then the commitment of the local rural communities. Timely acquisition of security clearances during all phases of the Programme is also a must and important steps.

### 2.2. Risks

- Lack of full political support for the implementation of project activities (Risk level: Medium).
- Lack of coordination between the different directorates/agencies of the MALR and/or between MALR and other ministries having a role in the implementation of the Programme (Risk level: Medium).
- Approval of the project activities delayed by the local authorities (Risk level: Low).
- Delayed issuance of permission/licences to organizations entrusted to implement project activities (Risk level: Medium).
- Institutional staff providing extension services to the farmers are not well qualified (Risk level: Low).
- Fragmented small agricultural fields prevent the use of agricultural machinery to provide proper agricultural services (Risk level: Low).
- Good Agricultural Practices (GAPs) are not accepted by farmers (Risk level: low).

## 3. SCOPE OF THE WORK

### 3.1. General

#### 5.1.1 Description of the assignment

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The agricultural extension is the core of community development initiatives, undertakes activities leading to rural development, explores natural and human resources, delivers educational and awareness-raising messages. The need to increase agricultural productivity requires farmers' adoption of new technologies, such as new cultivation techniques, new seed varieties that have shorter growing seasons, adapted to climate changes and tolerate water deficits and soil salinity. These changes require smallholders to access high-quality advisory services to manage the risks associated with shifting to new technicality of production. However, the agriculture extension services face several challenges which the EU-ZIRA3A Programme aims to resolve by strengthening the extension services towards a sustainable management of natural resources and agrifood-ecosystems in three governorates of Sohag, Assiut, and Beni Suef.

According to the expected outputs of this contract, the Contractor will be responsible for delivering the work packages related to Output 2.1 and Output 2.2, as detailed below:

**i.) Work Packages and Activities Related to Output 2.1:**

**WP 2.1.1.: Developing updated current extension plans according to Good Agricultural Practices (GAPs) and climate-smart agriculture.**

Activities:

- Providing extension services for specific targeted crops in each governorate (these crops were identified by the program and partners in each governorate) by designing agricultural extension programs in the form of detailed educational content (curricula) for each specific crop, these extension programs contain all recommendations related to good agricultural practices and water-saving agriculture as well as highlighting extension messages (for use by official extension workers).
- Supporting the extension sector in the preparation of extension plans for the application of GAPs related to the specific targeted crops in each governorate.
- Involving all the specialized experts from the different sectors and agencies of the MoALR, notably the support of the ARC Research Institutes.

**WP 2.1.2.: Training of the trainers (ToT): extensionists of the MALR, and Water User Associations (WUAs) and other relevant organizations, are trained to deliver the new extension plans.**

Activity:

- Providing intensive training programmes to the extension providers at institutional Central and governorate levels for the application of the GAPs including climate smart agriculture practices.

**WP 2.1.3.: Providing technical and financial assistance for rolling out the extension plans in the three governorates.**

Activities:

- Providing technical and financial assistance for applying GAPs and better agricultural services through training programmes, field days, and field school farmers.
- Establishing demonstration fields to organize farmer's field days to provide training and practical GAPs applications including climate-smart agriculture and water-saving agriculture.
- Establishment of field demonstration models and pilots for modern on-farm irrigation systems in the old lands, including supply tools and materials of water pumping system powered by solar energy and provide training in the 3 targeted governorates.



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- Providing a specific extension programme as part of raising the awareness of farmers and Water Users Associations regarding the best use of irrigation water.
- Implement a digital platform with the use of new mobile application for the dissemination of extension plans covering the selected crops and challenges faced in the targeted governorates and coordinate with MALR for necessary permissions might needed to share information via the mobile app. All awareness activities in LOT 1 to be connected to this digital platform.
- Disseminating specific and seasonal extension messages through various media: newspapers, TV and radio, mobile applications, etc.
- Implement field trials of improved Seeds/ cultivars of fodder in 3 targeted governorates.

## ii.) **Work Packages and Activities Related to Output 2.2:**

### **WP 2.2.1.: Increasing knowledge of the situation and needs of the animal husbandry in the targeted governorates.**

#### Activities:

- Collecting data and information about the animal husbandry in each governorate.
- Mapping of the associations specialized in animal production in each governorate.

### **WP2.2.2: Building the capacity of veterinary providers, improve farmers' access and raising awareness to veterinary services.**

#### Activities:

- Training veterinary services providers on veterinary treatments, vaccination and artificial insemination.
- Raising awareness of smallholder farmers regarding the advantages of the artificial insemination and vaccination.
- Providing material and equipment to disseminate artificial insemination through services providers.
- Improving hygiene awareness to avoid losses in milk production.
- Training farmers including women to upgrade their skills and knowledge of the integrated dairy value chains according to EU, EFSA, and CODEX standards.

### **WP 2.2.3: Improving profitability of the animal husbandry through the development of circular and local economy.**

#### Activities:

- Promoting the diversification of livestock.
- Supporting the creation of a suitable animal insurance system to avoid severe losses by the farmers.
- Promoting the use of agricultural residues as local feed source to mitigate the limited availability of fodder and its expensive price.
- Advocating farmers to be part of a dairy collection and processing centre to facilitate products marketing so as to improve their profit.
- Improve the value chain of dairy products through improving products quality.
- Supplying specialized dairy associations with pilot dairy processing plant as well as small modern milk processing equipment at both family and association levels.
- Supporting farmers and farmers associations for the collection, packaging and marketing of their milk products at the local level.



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**These work packages and the related activities will require close coordination between the team of the Contractor and the Contracting Authority's EU-ZIRA3A PMU.**

### 5.1.2 Geographical area to be covered.

Governorates of Sohag, Assiut and Beni Suef.

### 5.1.3 Target groups

Smallholder farmers, Official extension providers, veterinary service providers and Water Users Associations.

## 3.2. Specific work

According to Output 2.1 and Output 2.2 and related Work Packages as mentioned above, the contractor will be responsible for providing specific work as detailed below:

### 3.2.1 Specific work under Output 2.1

**WP 2.1.1: Developing extension plans according to Good Agricultural Practices (GAPs) and climate-smart agriculture.**

#### Specific work:

1. Update current knowledge and information of extension **programmes** for 26 crops (as detailed below) containing all information, instructions, and recommendations on of GAPs and water-saving cultivation practices, for the following specific **3 targeted groups of crops**, as classified below:
  - **Field crops** (No. 9): Maize, Sorghum, Sugarcane, Sugar beets, Cotton, Soybean, Wheat, Sunflower, Sesame.
  - **Horticultural crops** (No. 12): Onion, Tomato, Green beans, Cauliflower, Cabbage, Eggplants, Potato, Local fava beans, Pomegranate, Citrus, Garlic, Peppers
  - **Medicinal & Aromatic crops** (No. 5): Basil, Anise, Caraway, Fennel, Nigella Sativa.
2. Update current knowledge and information of extension **plans** for the application of GAPs related to the 26 specific targeted crops. Each updated extension plan must be accompanied by a package consisting of:
  - Analysis of the current situation.
  - Identification of the most important agricultural problems related to the target crops.
  - Identification of objectives.
  - Develop the action plan to improve productivity for each target crop.
  - Determine the areas in the targeted governorates, the required expertise, the timetable for implementation, the places for meetings with farmers, facilities, and incentives.
  - Identify methods and extension tools that can be used to transfer knowledge, skills and attitudes to farmers.

To increase the efficiency and sustainability of the specific work, each extension program will be completed through:

- Technical and scientific contents (guidelines), performed by an expert for each target group of crops, highlighting the extension messages (to be used by the extensionists).



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No. 3 experts (**No. 1 agronomist and No. 2 horticulturists**) for 3 target groups of crops in subjects of field crops, horticultural crops, medicinal & aromatic crops.

- Based on the extension message, design and production of digital awareness materials (at least but not limited to: (no. 1 poster, no. 1 leaflet, no. 1 brochure and 4 social media posts) for farmers, in a visual format with drawings and illustrations. To be designed by graphic designer.

No. 1 graphic designer.

- Design and production of:
  - No. 2 Audio/animated Gif, 10 sec (Arabic voice over and English subtitles).
  - No 1 Animation videos up to 3 minutes (Arabic voice over and English subtitles).
  - No. 1 educational film on good agricultural practices, based on extension messages, 10 min, with animation and promos, (Arabic language, English subtitles).
- Promoting the digital awareness materials which designed through Social media by launching 18 digital awareness campaigns (3 governorates x 6 seasons) using Social media advertising features (each lasting 15 days) including Social media promotion fees. Awareness campaigns to be shared with the official pages of Agriculture directorates at each governorate.
- liaise with the relevant research institutes to get the written approval for the developed material before utilization throughout the project period for above mentioned activity.
- With the support and coordination with Institutes of the Agriculture Research Centres (ARC), establishment of a pool of expert (national and international) for the update and implementation of extension plans and database for specialized 3 groups of experts as follow: Field crops, Horticulture crops, Medicinal and Aromatic crops.

**WP 2.1.2: Training of the trainers (ToT): extensionists of the MoALR, and Water User Associations (WUAs) and other relevant organizations are trained to deliver the new extension plans.**

**Specific work:**

1. Carry out **178 technical training** courses on the application of the Good Agriculture Practices (GAPs) and climate smart agriculture (CSA) related to the identified crops:
  - **14 crops in Sohag:** Maize, Sorghum, Sugarcane, Onion, Tomato, Sugar beets, Cotton, Soybean, Wheat, Green beans, Cauliflower, Cabbage, Eggplants, Peppers
  - **20 crops in Assiut:** Maize, Sorghum, Sugarcane, Onion, Tomato, Sugar beets, Cotton, Soybean, Wheat, Cabbage, Eggplants, Peppers, Sunflower, Sesame, Potato, fava beans, Pomegranate, citrus, garlic, and medicinal and aromatic plants (Basil, Anise, Caraway, Fennel, Nigella sativa)
  - **16 crops in Beni Suef:** Maize, Sorghum, Onion, Tomato, Soybean, Wheat, Cabbage, Eggplants, Peppers, Sunflower, Sesame, Potato, fava beans, citrus, garlic, medicinal and aromatic plants.



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- Preparing training materials and power point presentation for identified crops using the extension programs related to WP 2.1.1 in three governorates and preparing the final report.
- List of trainees to be selected by EU-ZIRA3A and MoALR.
- Training to be done by 9 experts as follow:
  - No. 3 crop experts (**No. 1 agronomist and No. 2 horticulturists**) for Sohag
  - No. 3 crop experts (**No. 1 agronomist and No. 2 horticulturists**) for Assiut
  - No. 3 crop experts (**No. 1 agronomist and No. 2 horticulturists**) for Beni Suef
- Above activities shall include all costs associated with logistic arrangements, meals, training rooms and training materials, and transportation.
- Training breakdown:

Governorate	A No of crops covered	B No of course per each crop	C Total number of courses (A*B)	D Max No of trainees per course	E Total number of trainees (B*D)	F Duration of the course (days)	G Total No of training days (C*F)
Sohag	14	5	70	30	150	2.5	175
Assiut	20	3	60	30	90	2.5	150
Beni Suef	16	3	48	30	90	2.5	120
<b>Total</b>	<b>50</b>		<b>178</b>		<b>330</b>		<b>445</b>

**WP 2.1.3: Providing technical and financial assistance for rolling out the extension plans in the three targeted governorates.**

**Specific work:**

- Carry out **11 training programs** for qualifying facilitators of Farmer Field Schools (FFSs) (same list of trainees used in WP 2.1.2), including preparing training materials. Each training program consists of 3 modules as follows and as per the detail table below:
  - Modules1: Participatory extension approaches and adult education with simplified messages (2 training days)
  - Modules 2: FFS principles and management (2 training days)
  - Modules 3: Communication skills and facilitation skills (2 training days)
  - Trainings to be conducted by 3 **agriculture extension** experts (1 at each governorate).
  - Above activities shall include all costs associated with logistic arrangements, meals, training rooms and training materials, and transportation.

Governorate	A No of courses	B	C Total number of trainees	D	E Total No of training days

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		Max No of trainees per course	(A*B)	Duration of the course (days)	(A*D)
Sohag	5	30	150	6	30
Assiut	3	30	90	6	18
Beni Suef	3	30	90	6	18
<b>Total</b>	<b>11</b>		<b>330</b>		<b>66</b>

- Establish total of 600 FFSs (targeting at least 2000 farmers) in the three targeted governorates through using the qualified FFS facilitators who were trained in the previous activity as follows:
  - Implement 200 FFSs per target governorate (FFs locations will be selected by EU-ZIRA3A and MoALR)
  - Each FFS should be facilitated by same facilitator and include same 20 farmers in all sessions per season.
  - No. 15 facilitators (at least, as per 5 facilitators in each local governorate)
  - Each FFS will be attached to a demonstration/ educational field of 1 Feddan (as described below)
  - Organizing each FFS include providing all training materials and stationery, coffee breaks for all participants, transportation allowance for FFS facilitators.
  - Above activities shall include all costs associated with logistic arrangements, meals, training rooms and training materials, and transportation.
  
- Establish 600 demonstration/educational fields (1 Feddan each) attached to each FFS to organize farmer field days to provide training and GAPs including climate-smart agriculture in the 3 targeted governorates as the follows:
  - 1 Feddan demonstration/educational fields per each FFS will be partially supported by production inputs such as: selected seeds, agricultural mechanization and biofertilizers, under the full supervision of the FFSs field crop experts.
  - and its comparison to traditional fields under the full supervision of the FFSs agricultural economics experts and FFSs field coordinators (Arabic & English) for each targeted governorate.
  - Above activities shall include all costs associated with logistic arrangements, meals, training rooms and training materials, and transportation.
  
- Supervising number of 600 FFSs in the targeted governorates as the follows:
  - Create FFSs **supervising team** of
    - ✓ FFS Supervisor
    - ✓ 4 Field crop experts (covering following subjects: field crop, vegetable crops, fruit crops, aromatic and medicinal crops)
    - ✓ 3 Agricultural economics experts (1 for each governorate)
    - ✓ 6 Field coordinators (2 in each governorate)
  - The supervising team will work in cooperation with the Agricultural Extension department in each governorate.
  - Total number of supervision days are 150 days (50 days for each governorate)
  - Supervising team will prepare a simplified FFS curriculum containing FFS sessions plan according to the extension messages for each identified crops separately (26 FFS curriculum as a total). FFS curriculum includes Good/Climate Smart Agriculture Practices (GAPs/CSPs) for climate change mitigation and adaptation.



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- Prepare final report documenting the economic impact analysis for the demonstration fields (1 Feddan each) of FFSs.
  - Prepare final report documenting all FFS conducted activities, practices (Arabic & English).
  - Above activities shall include all costs associated with logistic arrangements, meals, training rooms and training materials, and transportation.
- Forming 60 Water User Associations (20 at each governorate) and raise their knowledge by trainings on water saving issues in 3 targeted governorates of Beni Suef, Assiut and Sohag as follows:
    - Conduct up to 60 preparatory meetings with farmers (20 at each governorate) at the meskas level about the importance of forming WUA and presenting the benefits that farmers will gain by working together in irrigation water management, followed by the election of the Board of Directors of Water Users Associations.
    - Registration of 60 new WUAs according to Irrigation and Drainage Law amended by Law No. 213 (1994) and its executive regulations 14900 of year 1995.
    - Conduct **9 training courses** for members of the boards of directors of new 60 Water User Associations on Irrigation and Drainage Law amended by Law No. 213 (1994) and its executive policy No. 14900/1995, stages of formation of WUAs, organizational structure and management (e.g, preparation of charts, voting rights, roles and responsibilities of the WUA board, procedures of opening bank account, determination of irrigation fees to be paid by farmers, procedures of collecting and paying irrigation service fees, expenses and recording.
    - No. **3 agriculture extension** experts to conduct trainings (1 per each governorate)
    - Hold above mentioned training courses as follow:

Governorate	A No of training courses	B Max No of trainees per course (3 persons from board of directors per each WUA)	C Total number of trainees (A*B)	D No of WUA established
Sohag	3	20	60	20
Assiut	3	20	60	20
Beni Suef	3	20	60	20
<b>Total</b>	<b>9</b>		<b>180</b>	<b>60</b>

- Up to 40 working days to follow up and assist WUAs in day-to-day management and execution of tasks based on WUA policy and procedures.
  - Above activities shall include all costs associated with logistic arrangements, meals, training rooms and training materials, and transportation.
- Prepare the extension programme (technical contents) on the best use of irrigation water as part of raising the awareness of farmers and WUAs, the preparation will be achieved by Expert in field irrigation (5 working days).
  - Carry out 90 awareness sessions (1 session per day) for farmers and WUAs based on the prepared extension programme (technical contents) in the target governorates with the participation of a total of 1,800 farmers, on the best use of irrigation water as the following:



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Governorate	A No of awareness sessions	B No of farmers per session	C Total number of farmers (A*B)
Sohag	30	20	600
Assiut	30	20	600
Beni Suef	30	20	600
<b>Total</b>	<b>90</b>		<b>1800</b>

- Awareness sessions should be implemented by 6 local **agriculture extension** experts (2 local experts for each governorate, each local expert will be responsible for implementation of 15 awareness sessions).
  - Prepare 6 reports in Arabic & English (1 per each local expert) documenting all awareness sessions conducted in the targeted governorate (maximum of 6 working days).
  - Above activities shall include all costs associated with logistic arrangements, meals, training rooms and training materials, and transportation.
- Implement a digital platform with the use of new mobile application for the dissemination of extension plans (WP 2.1.1) covering the selected crops and challenges faced in the targeted governorates as the following:
    - Design and produce the mobile applications for agricultural extension services by No. 1 agricultural extension digital expert (30 working days)
    - Coordinate with MALR for necessary permissions might needed to share information via the mobile app.
    - Testing, evaluating and updating to validate the application (10 working days)
    - All awareness activities in LOT 1 to be connected to this digital platform.
    - Final report for mobile application (4 working days)
  - **Design** 6 field demonstration models (5 feddan per site per governorate) for modern on-farm irrigation systems in the old lands in 3 targeted governorates (up to working 132 days) as follows:
    - Situation analysis (Institutional and technical) of the current irrigation systems in the selected sites in agreement with MoLAR (5 feddan per site per governorate - total of 3 sites in the targeted governorates (up to 20 working days)
    - Documentation of low-cost solutions for small scale irrigation systems available in the national and international market (up to 5 working days)
    - Detailed technical design with drawings including solar power, pump houses and bill of quantities of the 3 sites with complete material and cost estimates and technical specifications (up to 21 working days)
    - Feasibility report for the implantation of modern irrigation system & Business model for solar power in old lands-Egypt (up to 5 working days)
    - Prepare Performance Monitoring and Maintenance Plan for Solar-powered Modern Irrigation Systems in the 3 sites (up to 6 working days)
    - No.1 **modern irrigation** expert to do design of the three models.
  - **Establish** 6 field demonstration models (5 feddan per site per governorate) in the old lands, including supply and installation of tools and materials of water pumping system powered by solar energy, in accordance with the engineering design and drawings which were provided in the



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previous activity and as per the following specifications of model water pumping system for each demonstration field:

- Installation and operation of a solar energy system mounted on a metal structure 3 to 4 m height and to be above the roof of the pump room. It consists of the panels' metal structure (mounting structure), complete holding structure, 30 solar cells (550-W-solar per cell), electrical transformer, protection and operation panel, DC and AC cables, and civil works.
  - installation and operation of a centrifugal pump powered by electricity (solar energy), with a total dynamic lift greater than 45 m, pumps (with a theoretical flow rate of 15 L sec-1), in addition to the pump, a motor will be installed on a chassis, Iron in the factory with high-quality manufacturing requirements and carrying out the necessary tests to adjust the horizontal and axial position of the unit in accordance with the design, specifications and drawings.
  - installation and operation of a sand and disc filtration unit (36-4) with a flow rate of 150 m<sup>3</sup>/h with a filtration efficiency of 120-130 mesh or complete mesh filters with air valves, safety and control, pressure meters, fertilization connections, main underground lines for entry and exit, automatic backwash, and the concrete base, accordance with the design, specifications and drawings, with installation of a centrifugal fertilizer injection pump with a horsepower ranging from 1 - 1.5 hp with a PVC tank with a capacity of 1 m<sup>3</sup>.
  - installation and making a complete 3 x 5 m room for all pumps and filters, according to the engineering drawings and category, including excavation, dewatering and backfilling in layers with compaction, all in accordance with the design, specifications and drawings.
  - Installation and operation of 24 surveillance cameras for the pump room, solar cells and control unit
  - installation, connection and testing of UPVC pipes at 6 atmosphere pressure for the main, sub-main and subsidiary lines in accordance with the design, specifications and drawings.
  - Installation all the polyethylene hoses in accordance with the design, specifications and drawings
  - Installation and operation of no.6 of 20 HP reserve diesel pump, (30 m<sup>3</sup>/hour), In case it is necessary to complete the irrigation process at night.
  - **Conduct training for farmers** (at least 15 farmers, 5 for each demonstration model) on the on-farm irrigation modern systems the in 3 targeted governorates (up to 20 working days).
  - **Conduct training for extension officers** (at least 9 officers, 3 per each governorate) on the on-farm irrigation modern systems in the 3 targeted governorates (up to 20 working days).
  - Evaluation of the sustainability of improved irrigation systems (up to 5 working days).
  - No.2 **modern irrigation** experts to do establish of the three models and conduct the training and the evaluation.
  - Above activities shall include all costs associated with logistic arrangements, meals, training rooms and training materials, and transportation.
- Implementation of **60 field trials** (demonstration fields), 1 feddan each, 20 trials per each governorate of improved seeds/cultivars of fodder of Sorghum - alfalfa - millet - fodder cowpeas - fodder beets in the 3 targeted governorates with support of technical national expert. The implementation should be performed as follow:
- Detect the forage crop to be cultivated and the level of adoption of forage technologies by the farmers and livestock keepers.
  - Demonstrate the production potential of the recommended forage seeds/ cultivars, production, and protection practices to the farmers and livestock keepers to transfer of forage technologies.



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- Assessment of the impact of the demonstration of forage technologies on the economic conditions of the farmers.
- Each demonstration field will be supported by certified improved seeds, land preparation, agricultural mechanization, and fertilizers.
- Preparing 3 reports for the implementation of demonstration fields in each governorate (5 working days)
- Above activities shall include all costs associated with the activities.

### **List of technical deliverables (Outputs 2.1):**

#### **▪ Deliverables of the Contractor related to Output 2.1 (WP2.1.1, WP2.1.2 & WP2.1.3)**

##### **(WP 2.1.1)**

D1: Updated technical material for 26 extension programs and extension plans including with the corresponding awareness material (Arabic language, summary of the content in English).

D2: Analysis report of digital approaches/tools: digital awareness materials through Social media and mobile application for extension services (English language, executive summary in Arabic).

D3: Monitoring and evaluation reports during implementation, including training reports, digital advisory tools/formats reports. (In both English and Arabic languages).

##### **(WP 2.1.2)**

D4: Preparing training materials and power point presentation for identified crops using the extension programs related to WP 2.1.1 in three governorates and preparing the final report.

##### **(WP 2.1.3)**

D5: FFS curriculum for 26 crops (Arabic language, outline of the content in English).

D6: Report on the registration of 60 water user associations in the Ministry of Irrigation (including registration numbers, a map of the locations, names of the general assembly, and names of the board of directors for each association separately).

D7: Assessment report on the overall impact of the extension activities including adoption rate of the recommendations and the feedback of the smallholder farmers regarding the changes in production cost, yield, and alleviated conflict over the limited resources (documenting the economic impact analysis for the FFS educational fields and its comparison to traditional fields) for each targeted governorate (English language, executive summary in Arabic).

D8: Evaluation and sustainability report for three demonstration field models (5 Feddan per site per governorate) in old lands as a modern irrigation system powered by solar energy.

D9: Assessment report on the overall impact of the best use of irrigation water activities including adoption rate of the recommendations and the feedback of the smallholder farmers regarding the changes in production cost, yield, and alleviated conflict over the limited resources (English language, executive summary in Arabic).



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D10: 3 reports (one for each governorate) for implementation field trials of improved seeds/cultivars.

### **3.2.2 Specific work under Output 2.2**

**WP 2.2.1:** Increasing knowledge of the situation and needs of the animal husbandry in the targeted governorates.

- Carry out assessment study of the current situation of animal husbandry and promoting the diversification of livestock the in each governorate through:
  - Collecting data and information on the situation of the animal husbandry in each governorate.
  - Mapping of the associations specialized in animal production in each governorate.
  - Detect the diversity of the local strains and assess their tolerability to climate change conditions.
  - Investigate the strength of the local breeds of animals in the three governorates with changing environmental conditions.
  - Risk assessment of loss of genetic diversity of the local strains.
  - Improving local strains of meat and milk through cross-breeding with other high-quality breeds.
- Preparing technical awareness materials for use in awareness campaigns for farmers towards diversifying livestock through training specialists
- No.1 **livestock** expert to conduct above activities for a total of 18 working days (16+2).

**WP2.2.2:** Building the capacity of veterinary providers, improve farmers' access and raising awareness to veterinary services:

- Carry out the **11 training programs** for veterinary services providers in target governorates (selected by EU-ZIRA3A and MoALR) on **rapid and early diagnosis of infectious, epidemiological, and transboundary diseases**, by signing an agreement with the Animal Reproduction Research Institute (ARRI) to perform the training programs using training facilities of ARRI (halls, laboratories and barns), preparing training report for all training programs as follow:
  - Each training program should be concluded in 5 days.
  - Preparing training materials (5 working days)
  - Preparing training reports (5 working days)
  - No.2 **veterinary services** experts needed to conduct the above trainings.

Above activities shall include all costs associated with logistic arrangements, meals, training rooms and training materials, and transportation.

Governorate	A No of courses	B No of training days	C No of trainees per course	D Total number of trainees (A*C)
Sohag	6	30	20	120



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Assiut	4	20	20	80
Beni Suef	1	5	20	20
<b>Total</b>	<b>11</b>	<b>55</b>		<b>220</b>

- Carry out the **11 training programs** for veterinary services providers in target governorates (selected by EU-ZIRA3A) on **veterinary treatments** and vaccination, by signing an agreement with the Animal Reproduction Research Institute (ARRI) to perform the training programs using training facilities of ARRI (halls, laboratories and barns), preparing training report for all training programs as follow:
  - Each training program should be concluded in 5 days.
  - Preparing training materials (5 working days)
  - Preparing trainings report (5 working days)
  - No.2 **veterinary services** experts needed to conduct the above trainings.
  - Above activities shall include all costs associated with logistic arrangements, meals, training rooms and training materials, and transportation.

Governorate	A No of courses	B No of trainees per course	C Total number of trainees (A*B)
Sohag	6	20	120
Assiut	4	20	80
Beni Suef	1	20	20
<b>Total</b>	<b>11</b>		<b>220</b>

- Carry out **18 practical training programs** for veterinary service providers in the targeted governorates (selected by EU- ZIRA3A) on “**artificial insemination in cows and buffalo**” (a total of 180 trainees) by signing an agreement with the Animal Reproduction Research Institute (ARRI) to perform the training programs using training facilities of ARRI (halls, laboratories and barns), preparing training report for all training programs.
  - Each training program should be concluded in 5 days.
  - Above activities shall include all costs associated with logistic arrangements, meals, training rooms and materials, transportation, and training fees including experts provided by ARRI.

Governorate	A No of courses	B No of trainees per course	C Total number of trainees (A*B)
Sohag	6	10	60
Assiut	6	10	60
Beni Suef	6	10	60



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<b>Total</b>	<b>18</b>		<b>180</b>
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- Carry out **18 practical training programs** for veterinary service providers in the targeted governorates (selected by EU- ZIRA3A) on “**on Use of ultrasound to monitor pregnancy in cows and buffalo**” (a total of 180 trainees) by signing an agreement with the Animal Reproduction Research Institute (ARRI) to perform the training programs using training facilities of ARRI (halls, laboratories and barns), preparing training report for all training programs.

Governorate	A No of courses	B No of trainees per course	C Total number of trainees (A*B)
Sohag	6	10	60
Assiut	6	10	60
Beni Suef	6	10	60
<b>Total</b>	<b>18</b>		<b>180</b>

- Each training program should be concluded in 5 days.
  - Above activities shall include all costs associated with logistic arrangements, meals, training rooms and materials, transportation, and training fees including experts provided by ARRI.
- Prepare scientific veterinary technical materials in order to design two packages of awareness materials for farmers:
    - The first package in the field of the advantages of artificial insemination, and
    - The second package in the field of the importance of vaccinations for livestock, in addition to publishing the digital awareness materials that were designed on Social media, also responsible for coordinating to pay the publishing costs, and preparing a report on each digital campaign at its end, as will be mentioned in subsequent activities.
    - No.1 **veterinary services** expert to prepare all technical materials.
    - Above activities shall include all costs associated with the activities
  - Design 2 graphical packages of awareness materials for farmers (non-printed) in visual form with drawings and illustrations on “**the advantages of artificial insemination and vaccinations**”, each package contains (1 poster, 1 flyer, 4 Social media posts, 2 audio/animated animation, 10 seconds, 1 animation video of up to 3 minutes each with Arabic audio commentary and English subtitles.
    - No.1 **graphic designer** to do above activities.
    - Delivery report of the activity to be submitted.
    - Above activities shall include all costs associated with the activities
  - Printing awareness materials for farmers on the advantages of artificial insemination and vaccinations (3000 posters and 3000 flyers).
    - Delivery report of the activity to be submitted.
    - Above activities shall include all costs associated with the activities



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- Carry out up to **30 digital campaigns** in the three governorates (10 campaigns for each governorate, each campaign lasting 4 days) for sharing and promoting awareness materials (using the digital awareness materials in the previous 2 graphical packages) in the targeted areas via the pages of veterinary medicine directorates on Social media in the targeted governorates, according to the time plan and awareness standards agreed upon with the program.
  - 3 analysis reports should be prepared for digital campaigns of each governorate.
  - Above activities shall include all costs associated with the activities.
- Carry out **180 awareness sessions** regarding the advantages of artificial insemination and vaccinations to raise awareness of farmers and should be implemented by No. 12 experts in **livestock/ agriculture extension** as per the following:

Governorate	A No of sessions	B No of farmers per session	C Total number of trainees (A*B)	D No of local experts
Sohag	60	20	1200	4
Assiut	60	20	1200	4
Beni Suef	60	20	1200	4
<b>Total</b>	<b>180</b>		<b>3600</b>	<b>12</b>

- Prepare 3 reports (1 report per each governorate) (Arabic & English) documenting all awareness sessions conducted in the targeted governorate.
- Above activities shall include all costs associated with the activities.
- Carry out updated assessments to determine the needs of veterinary medicine at directorates in the targeted governorates (Beni Suef, Assiut, and Sohag) and updated assessment of materials and equipment needed to improve and disseminate artificial insemination as follows:
  - Perform the required desk research and field visits with reports to produce the assessments. (Total of 6 working days)
  - Prepare performance monitoring and maintenance plan for liquid nitrogen production units in the 3 governorates. (Total of 3 working days).
- Providing veterinary medicines through implementing 160 veterinary therapeutic convoys to small scale farmers for the most common diseases in targeted governorates, (30 in Beni Suef, 50 in Assiut, and 80 in Sohag) after signing an agreement with the ARRI for the implementation of the required veterinary therapeutic convoys as follow:
  - The veterinary therapeutic convoys should be directed to small-scale farmers for the most common diseases in targeted governorates (1 convoy/village/day to treat at least 500 heads of animals).
  - Each convoy consists of (supply of veterinary medicines - supply of vaccinations - ultrasound - **artificial insemination** - a therapeutic and surgical medical team of 10 veterinarians, including local veterinarians from each governorate -promotional materials).
  - Preparing a separate report for each veterinary treatment convoy and preparing a final report after finalizing all the treatment convoys for each governorate.
  - Above activities shall include all costs associated with the activities.



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- For detailed information about WP 2.2.2, please refer to Annex 1.

**WP2.2.3** Improving profitability of the animal husbandry through the development of circular and local economy.

- Carry out **180 Awareness sessions** regarding the promoting the diversification of livestock, to raise awareness of farmers by using the technical awareness materials which papered in WP 2.2.1, in the target governorates with the participation of a total of 3,600 farmers, No. 12 experts in **livestock/ agriculture extension** as per the following:

Governorate	A No of sessions	B No of farmers per session	C Total number of trainees (A*B)	D No of local experts
Sohag	60	20	1200	4
Assiut	60	20	1200	4
Beni Suef	60	20	1200	4
<b>Total</b>	<b>180</b>		<b>3600</b>	<b>12</b>

- Prepare 3 reports (1 report per each governorate) (Arabic & English) documenting all awareness sessions conducted in the targeted governorate.
- Above activities shall include all costs associated with the activities.
- Update and disseminate plans (studies) by a No 1 **livestock expert** for improving nutrition status and raising of the Egyptian buffalo in the 3 targeted governorates (total of 25 working days) with consideration of the following points:
  - Set up solution plans for improving nutrition status and raising of the Egyptian buffalo.
  - Using non-classical plant wastes as additives to the Egyptian buffalo feed
  - Preparation of a technical report of the studies.
  - Above activities shall include all costs associated with the activities.
- Organize 3 workshops (1 day/ governorate) for livestock breeders and agricultural extension providers to present/disseminate the updated plans for improving nutrition status and raising of the Egyptian buffalo Each workshop with number of participants of at least of 50.
  - No 1 **livestock expert** conduct the three workshops.
  - Preparation of a technical report of the 3 workshops.
  - Above activities shall include all costs associated with the activities.
- Prepare a technical training material for farmers including women to upgrade their skills and knowledge of the integrated dairy value chains to EU, EFSA, and CODEX standards. (Total of 10 working days)
  - No 1 **livestock expert** conduct the three workshops.
  - Preparation of a technical materials.



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- Above activities shall include all costs associated with the activities.
- Carry out the **180 Awareness sessions** for 3,600 farmers including women to upgrade their skills and knowledge of the integrated dairy value chains to EU, EFSA, and CODEX standards by using the technical training material which papered in pervious activity, No. 12 experts in **livestock/ agriculture extension** to do this activity as per the following:

Governorate	A No of sessions	B No of farmers per session	C Total number of trainees (A*B)	D No of local experts
Sohag	60	20	1200	4
Assiut	60	20	1200	4
Beni Suef	60	20	1200	4
<b>Total</b>	<b>180</b>		<b>3600</b>	<b>12</b>

- Prepare 3 reports (1 report per each governorate) (Arabic & English) documenting all awareness sessions conducted in the targeted governorate.
- Above activities shall include all costs associated with the activities.
- Prepare a technical training material for farmers including women (total of 10 working days) by a No.1 **livestock expert** to design 2 packages of awareness materials on improving hygiene awareness on milk handling to avoid losses in milk production.
- Design 2 graphical packages by No.1 **graphic designer** of awareness materials for farmers (non-printed) in visual form with drawings and illustrations on “improving hygiene awareness to avoid losses in milk production”, using the scientific technical materials, each package contains (1 poster, 1 flyer, 4 Social media posts, 2 audio/animated animation, 10 seconds, 1 animation video of up to 3 minutes each with Arabic audio commentary and English subtitles.
- Printing awareness materials for farmers on improving hygiene awareness to avoid losses in milk production. Total of 6000 awareness materials for the 3 governorates (3000 poster and 3000 flyers as 1000 poster and 1000 flyers per each governorate).
- Carry out at least 21 digital campaigns on improving hygiene awareness on milk handling and to avoid losses in milk production in the three governorates (7 campaigns for each governorate, each campaign lasting for 4 days) for sharing and promoting awareness materials (using the digital awareness materials in the 2 graphical packages mentioned above) via the social media pages of veterinary medicine directorates on Social media in the targeted governorates, according to the time plan and awareness standards agreed upon with the program. An analysis report should be prepared for each digital campaign and one report covering all the digital campaigns for each governorate.
  - No 1 **agriculture extension** expert to conduct the digital campaigns.
  - Above activities shall include all costs associated with the activities.



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- Carry out **180 Awareness sessions** regarding improving hygiene awareness on milk handling and to avoid losses in milk production to raise awareness of farmers by using the technical awareness materials which prepared in the previous activity, No. 12 **agriculture extension** experts to do this activity as per the following:

Governorate	A No of sessions	B No of farmers per session	C Total number of trainees (A*B)	D No of local experts
Sohag	60	20	1200	4
Assiut	60	20	1200	4
Beni Suef	60	20	1200	4
<b>Total</b>	<b>180</b>		<b>3600</b>	<b>12</b>

- Conduct a study by No 1 **livestock expert** (total of 12 working days, 4 days per governorate) on advocating farmers to be part of a dairy collection and processing centre to facilitate milk marketing taking into account the following points:
  - Assessment of current dairy collection and processing centres with an accurate database of milk producers and amount of milk production in each governorate.
  - Promote establishment and improvement of existing dairy collection centres by organizing 3 workshops in the 3 targeted governorates (1 day/ governorate). Participants include milk producers (breeders) and milk processors.
  - Prepare a final report based on the 3 targeted governorates (total of 3 working days).
  - Above activities shall include all costs associated with the activities.

### **List of technical deliverables (Outputs 2.2):**

#### **(WP 2.2.1)**

D1: Report of situation assessment of the animal husbandry and the importance of diversifying the livestock, (English language, executive summary in Arabic).

D2: Report of Technical awareness materials on diversifying livestock to use in awareness campaigns for farmers in the governorates (Arabic language, summary of the content in English).

#### **(WP 2.2.2)**

D3: Report of 11 training programs on veterinary treatments and vaccination.

D4: Report of 11 training programs on rapid and early diagnosis of infectious, epidemiological, and transboundary diseases



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D5: Report of 18 practical training programs on artificial insemination in cows and buffalo.

D6: Report of 18 practical training programs on Use of ultrasound to monitor pregnancy in cows and buffalo.

D7: Delivery report of design No 2 graphical packages of awareness materials for farmers (non-printed) in visual form with drawings and illustrations on the advantages of artificial insemination and vaccinations.

D8: Delivery report of printing awareness materials for farmers on the advantages of artificial insemination and vaccinations (3000 posters and 3000 flyers).

D9: 3 analysis reports (one for each governorate) of the 30 digital campaigns for sharing and promoting awareness materials produced on D7.

D10: 3 reports of conducting 180 awareness sessions regarding the advantages of artificial insemination and vaccinations (1 report for each governorate).

D11: Analysis report of digital awareness materials through Social media for artificial insemination, and the importance of vaccinations (English language, executive summary in Arabic).

D12: 3 reports of implementing 160 veterinary therapeutic convoys and providing necessary veterinary medicines.

### **(WP 2.2.3)**

D14: 3 reports of conducting 180 awareness sessions regarding the advantages of artificial insemination and vaccinations (1 report for each governorate).

D15: Technical report of plans for improving nutrition status and raising of the Egyptian buffalo.

D16: Technical report of the 3 workshops to present/disseminate the updated plans for improving nutrition status and raising of the Egyptian buffalo.

D17: Technical training material for farmers including women to upgrade their skills and knowledge of the integrated dairy value chains to EU, EFSA, and CODEX standards.

D18: Prepare 3 reports of conducting 180 awareness sessions regarding upgrade farmers' skills and knowledge of the integrated dairy value chains to EU, EFSA, and CODEX standards.

D19: Delivery of technical training material of design 2 packages of awareness materials on improving hygiene awareness on milk handling to avoid losses in milk production.

D20: Delivery of 2 graphical packages of awareness materials for farmers (non-printed) in visual form with drawings and illustrations on "improving hygiene awareness to avoid losses in milk production".

D21: Delivery report of printing awareness materials on improving hygiene awareness to avoid losses in milk production.

D22: Analysis report of digital awareness materials through Social media for on improving hygiene awareness to avoid losses in milk production (English language, executive summary in Arabic).



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D23: 3 reports of conducting 180 awareness sessions regarding improving hygiene awareness on milk handling and to avoid losses in milk production (1 report for each governorate).

D24: Report of study on advocating farmers to be part of a dairy collection and processing centre to facilitate milk marketing.

### 3.3. Project management

#### 5.1.4 Responsible body

EU-ZIRA3A Programme Management Unit (PMU) of the Italian Agency for Development Cooperation (AICS) – Cairo Office, will be responsible for managing this contract / project.

#### 5.1.5 Management structure

The Head of the Italian Agency for Development Cooperation (AICS) – Cairo Office is the Legal Representative of the Contracting Authority. For this contract, the appointed Sole Responsible for the Project (RUP) is the Team Leader of the EU-ZIRA3A Programme Management Unit (PMU) and is responsible for overseeing the execution of this contract with the support of the EU-ZIRA3A Programme Management Unit (PMU), and in cooperation with the Egyptian Ministry of Agriculture and Land Reclamation (MALR).

#### 5.1.6 Facilities to be provided by the contracting authority and/or other parties.

No facilities will be provided by the contracting authority.

## 4. LOGISTICS AND TIMING

### 4.1. Location

Egypt: Sohag, Assiut and Beni Suef governorates.

### 4.2. Start date & period of implementation of tasks.

The intended start date is before the end of October 2024 and the period of implementation of the contract will be 36 months from this date. Please see Articles 19.1 and 19.2 of the special conditions for the actual start date and period of implementation.

## 5. REQUIREMENTS

### 5.1. Staff

Note that civil servants and other staff of the public administration of the partner country, or of international/regional organisations based in the country, shall only be approved to work as experts if well justified. The justification should be submitted with the tender and shall include information on the added value the expert will bring as well as proof that the expert is seconded or on personal leave.

#### 5.1.1 Key experts

**Key experts are listed here below, and they must submit CVs and signed statements of exclusivity and availability.**



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**All experts who have a crucial role in implementing the contract are referred to as key experts. The profiles of the key experts for this contract are as follows:**

### **(Output 2.1)**

#### **Key expert 1: Team leader – Agronomist / Agriculture specialist**

##### **Tasks of the team leader**

- Overall responsibility for the advisory package of the Contractor as outlined above.
- Ensuring the coherence and complementarity of the services of the Contractor with other services delivered by the programme at local and national level, in close coordination with the EU-ZIRA3A Team Leader
- Coordination of activities and interventions with all parties concerned.
- Providing strategic input from the activities and experiences
- Personnel management, in particular identifying the need for short-term assignments within the available budget, as well as planning and steering assignments and supporting local and international short-term experts.
- Ensuring that results-based monitoring is conducted.
- Regular reporting in accordance with deadlines

##### Qualifications and skills

- Education/training: At least a MSc degree in the field of agriculture or integrated rural development.
- Language: Fluent in Arabic, proficient language skills in English (level C1 according to Common European Framework of Reference for Languages)
- Leadership/management skills: At least a 10 years of management/leadership experience as project team leader or manager in a company.

##### General professional experience

- At least 12 years of General professional experience in the agriculture and irrigation sector
- At least 6 years of experience working on capacity development cooperation projects.

##### Specific professional experience

- At least 6 years of Specific professional experience with smallholder farmers in Egypt.

#### **Key expert 2: Agriculture extension expert**

##### **Tasks agriculture extension expert**

- Supervising the produce of advisory extension packages.
- Coordination of other non-key experts with rolling-out of the extension plans.



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- Providing technical backstopping and inputs to other non-key experts.
- Support key expert 1 (team leader) in personnel management, in particular identifying the need for short-term assignments within the available budget, as well as planning and steering assignments and supporting local and international short-term experts.
- Follow up with implementing a results-based monitoring system.
- Regular reporting in accordance with deadlines

#### Qualifications and skills

- Education/training: At least a BSc degree in the field of agriculture extension or integrated rural development.
- Language: Fluent in Arabic, proficient language skills in English (level C1 according to Common European Framework of Reference for Languages)
- Leadership/management skills: At least a 5 years of management/leadership experience as project officer/ coordinator or manager in a company.

#### General professional experience

- At least 6 years of General professional experience in the agriculture and irrigation sector
- At least 4 years of experience working on capacity development cooperation projects.

#### Specific professional experience

- At least 3 years of Specific professional experience with smallholder farmers in Egypt.

#### **(Output 2.2)**

#### **Key expert 2: Team leader – Livestock specialist / Agriculture & livestock specialist**

#### **Tasks of the team leader**

- Overall responsibility for the advisory package of the Contractor as outlined above.
- Ensuring the coherence and complementarity of the services of the Contractor with other services delivered by the programme at local and national level, in close coordination with the EU-ZIRA3A Team Leader
- Coordination of activities and interventions with all parties concerned.
- Providing strategic input from the activities and experiences
- Personnel management, in particular identifying the need for short-term assignments within the available budget, as well as planning and steering assignments and supporting local and international short-term experts.
- Ensuring that results-based monitoring is conducted.
- Regular reporting in accordance with deadlines

#### Qualifications and skills

- Education/training: At least a MSc degree in the field of Veterinary Medicine or livestock.
- Language: Fluent in Arabic, proficient language skills in English (level C1 according to Common European Framework of Reference for Languages)



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- Leadership/management skills: At least a 10 years of management/leadership experience as project team leader or manager in a company.

#### General professional experience

- At least 12 years of General professional experience in the Veterinary Medicine and livestock sector
- At least 6 years of experience working on capacity development cooperation projects.

#### Specific professional experience

- At least 6 years of Specific professional experience with smallholder farmers in Egypt.

### Key expert 2: Veterinary expert

- Supervising the produce of training materials of veterinary services.
- Coordination of other non-key experts with conducting trainings sessions.
- Providing technical backstopping and inputs to other non-key experts.
- Support key expert 1 (team leader) in personnel management, in particular identifying the need for short-term assignments within the available budget, as well as planning and steering assignments and supporting local and international short-term experts.
- Follow up with implementing a results-based monitoring system.
- Regular reporting in accordance with deadlines

#### Qualifications and skills

- Education/training: At least a BSc degree in the field of Veterinary Medicine or livestock.
- Language: Fluent in Arabic, proficient language skills in English (level C1 according to Common European Framework of Reference for Languages)
- Leadership/management skills: At least a 10 years of management/leadership experience as project team leader or manager in a company.

#### General professional experience

- At least 6 years of General professional experience in the Veterinary Medicine and livestock sector
- At least 4 years of experience working on capacity development cooperation projects.

#### Specific professional experience

- At least 3 years of Specific professional experience with smallholder farmers in Egypt.

**All experts must be independent and free from conflicts of interest in the responsibilities they take on.**

### 5.1.2 Other experts, support staff & backstopping

The contractor shall provide experts to perform capacity building and other duties indicated under the work packages for output 2.1 and output 2.2. Other non-key experts to be indicated in the tender include and not limited to agriculture specialist, crop expert, agricultural economist, geneticist, horticulturist livestock nutrition specialist, environment engineer, veterinary specialist.

### 5.2. . Office accommodation

No office accommodation will be provided by the contracting authority.



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### 5.3. Facilities to be provided by the contractor.

All facilities needed for the implementation of the contract will be provided by the contractor.

### 5.4. Equipment

No equipment is to be purchased on behalf of the Contracting Authority / partner country as part of this service contract or transferred to the contracting authority / partner country at the end of this contract. Any equipment related to this contract which is to be acquired by the partner country must be purchased by means of a separate supply tender procedure.

## 6. REPORTS

### 6.1. Reporting requirements

The contractor will submit the following reports in English in one original and 2 copies:

- **Inception Report** of maximum 12 pages to be produced after 3 months after commissioning of the assignment from the start of implementation. In the report the contractor shall describe e.g., initial findings, progress in collecting data, any difficulties encountered or expected in addition to the work programme and staff travel. The contractor should proceed with his/her work unless the contracting authority sends comments on the inception report.
- 6 interim reports are required (interim report every six months) including other progress updates.
- **Draft final report** of maximum 30 pages (main text, excluding annexes). This report shall be submitted no later than one month before the end of the period of implementation of tasks.
- **Final report** with the same specifications as the draft final report, incorporating any comments received from the parties on the draft report. The deadline for sending the final report is 15 days after receipt of comments on the draft final report. The report shall contain a sufficiently detailed description of the different options to support an informed decision on the service contract deliverables. The detailed analyses underpinning the recommendations will be presented in annexes to the main report. The final report must be provided along with the corresponding invoice.

### 6.2. Submission and approval of reports

The report referred to above must be submitted to the project manager/ Sole Responsible for the Project (RUP) identified in the contract. The project manager is responsible for approving the reports.

## 7. MONITORING AND EVALUATION

### 7.1. Definition of indicators

The proposed logframe for this contract will be approved by the Contracting Authority and will form the basis for the monitoring and evaluation of the execution of the contract, the chosen indicators will measure the delivery of the expected results. The specific performance measures/indicators will be approved on the basis that they provide valid, useful, practical and comparable measures of progress towards achieving expected results.



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## 7.2. Special requirements

The tenderer should submit a proposed Logframe and a timetable of works for the contract.