

Technical Training Report

E – Learning Training Course on “Date Palm Value Chain Analysis, Management, and Market Linkages in the GCC Countries”



Photo Credit: The Date Palm Project Team in Qatar (2021).

Developing Sustainable Production Systems for Date Palm in the Gulf Cooperation Council Countries (GCC)

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July 2021

EXECUTIVE SUMMARY

Name of the project associated to the training course

Developing sustainable production systems for date palm in the Gulf Cooperation Council countries.

Name of the training course

Date Palm Value Chain Analysis, Management, and Market Linkages in the GCC Countries.

Venue / Location of the training course

Virtual through Microsoft Teams.

Schedule of the training course

13 – 17 June 2021.

Organization of the training course

International Center for Agricultural Research in the Dry Areas (ICARDA) – Arabian Peninsula Regional Program (APRP).

About the trainers

- Dr. Boubaker Dhehibi (SEPR Team – ICARDA: b.dhehibi@cgiar.org)
- Dr. Abdulbasit Oudah Ibrahim (APRP – ICARDA: a.oudah-ibrahim@cgiar.org)
- Dr. Muhi El Dine Hilali (RASP Team – ICARDA: m.hilali@cgiar.org)

Purpose of the training course

The purpose of the training is to enhance capacity development of the Arabian Peninsula government officials and researchers who are engaged in the socio-economic component of the date palm project “Developing sustainable production systems for date palm in the Gulf Cooperation Council countries”.

Training course learning objectives

To provide the socio-economic projects teams with the advanced technical skills required to deliver on the socio economics activities and outputs of the outlined project implementation and beyond. Precisely, it aimed at providing the participants with knowledge and practices of the value chain and market linkages management with special focus to date palm products.

Training course specific objectives

- Developing and reinforcing participants’ knowledge and understanding the concept of value chain analysis.

- Understanding the role of pre- and post- harvest practices in quality in developing the value chain and market.
- Understanding the usefulness and importance of value chain analysis: Why date palm value chain analysis?
- Empowering participants with the required skills and tools (quantitative and qualitative) to assess, analyse, develop, and undertake date palm value chain analysis.
- The usefulness of this training to complete with the date palm project commitments and deliverables.
- Stimulate cooperation between the ICARDA and the GCC countries through participants, as well as regional cooperation (networking and benchmarking).

Training course outline

The training is divided in three sections/ components:

- Component I: Theoretical sessions on agriculture value chain (VC) analysis and development
- Component II: Date palm value chain analysis, management, and market linkages
- Component III: Practical sessions & Countries case studies

Training course implementation process

- This training course is designed to be interactive and participatory where discussion and debate is encouraged.
- Sharing country-based experiences and insights with the participants. Many of the participants have already been working on VC analysis and looking at specific actors within the date palm VC.
- Training methods and activities:
 - Comprehensive approach, including theoretical lectures.
 - Exercises and practical sessions in plenary to help attendees using the value chain theoretical concepts appropriately.
 - Case studies on date palm value chain analysis, management, and market linkages in each one of the six (6) GCC countries implementing the date palm project activities.
 - Reading references: Used as references for the participants' research.
 -

Specific outputs

Around 25 professionally-trained NARS partners from Oman, Kuwait, Qatar, Bahrain, UAE, Saudi Arabia (18 males and 5 females) involved in the date palm project *"Developing sustainable production systems for date palm in the Gulf Cooperation Council countries"* and 2 (males) participants from Egypt and Jordan (ARINEANA) trained on *"Date Palm Value Chain Analysis, Management, and Market Linkages in the GCC Countries"*.

Specific outcomes

By the end of this training the participants will be able to understand about:

- Value chain: Definition and basic concepts,
- Value chain analysis quantitative and qualitative tools, and value chain indicators,
- Value chain mapping and governance,
- Value chain innovation and upgrading,
- The date palm market systems in the GCC countries,
- Date palm value chain analysis and development in the GCC countries,
- Practical examples for date palm value chain in the GCC countries, Egypt, and Jordan.

Virtual Communication References – E-training records, MEL, and E-Learning Platform

- E-learning training course platform:
<https://elearning.icarda.org/course/view.php?id=115>.
- E-learning training course MEL reference: <https://mel.cgiar.org/capdev/capdev/id/6524>.

GENERAL OVERVIEW

Value chain encompass the full range of activities and services required to bring a product or service from its conception to sale in its final markets—whether local, national, regional, or global. Value chains include input suppliers, producers, processors, and buyers, as well as the support services and enabling environments that form a dynamic market system. It is in the frame of the APRP-ICARDA date palm project named “Developing sustainable production systems for date palm in the Gulf Cooperation Council countries” activities, an E-learning training course on “Date Palm Value Chain Analysis, Management and Market Linkages” is planned to be delivered. The E-learning training course is aimed at equipping the participants with principles and practices of the date palm value chain and market linkages management. The course is designed to enable the participants from Kuwait, United Arab Emirates, Qatar, Saudi Arabia, Oman, and Bahrain to effectively contributing to the implementation of the socio-economic activities planned in the frame of the outlined project.

PURPOSE

With the purpose to provide the socio-economic projects teams with the advanced technical skills required to deliver on the socio economics activities and outputs of the outlined project implementation and beyond, this E-learning training course is aimed at equipping the participants with principles and practices of the value chain and market linkages management with special focus to date palm products. The specific objectives of this E-learning course conducted by APRP-ICARDA are as follows:

- Developing and reinforcing participants’ knowledge and understanding the concept of value chain analysis.
- Understanding the usefulness and importance of value chain analysis: Why date palm value chain analysis?
- Empowering participants with the required skills and tools (quantitative and qualitative) to assess, analyze, develop, and undertake date palm value chain analysis.
- The usefulness of this training to complete with the date palm project commitments and deliverables.
- Stimulate cooperation between the ICARDA and the GCC countries through participants, as well as regional cooperation (networking and benchmarking).

TARGETED AUDIENCE

The target audience for this course is the staff of National Agricultural Researchers and Technical Staff Officers in the GCC countries (Oman, UAE, Qatar, Saudi Arabia, Bahrain, and Kuwait) as part of the above project regional training program in this countries. Additionally, a representative from ARINEANA Jordan and Egypt participated which brought additional dimension to the training. This gave an opportunity for the trainers to emphasize the importance of collaboration among policy makers and technicians, and the aspects that both need to take into account when developing and designing harmonized strategies and policies for enhancing the date palm sector in addition to helping decision makers and date palm program planners towards an establishment of an enabling environment for improving production, productivity and quality of dates, including local value chain development through:

- Date palm value chain analysis and development in the GCC countries.
- Understanding the status of the date palm value chain in the GCC countries.
- Discuss the challenges and opportunities to improve marketing, commercialization, and competitiveness of the dates and date palm product in these countries.

ORGANIZING COMMITTEE

- Dr. Abdoul Aziz Niane, Coordinator, Arabian Peninsula Regional Program, ICARDA-APRP, Ajman, UAE (a.niane@cgiar.org).
- Dr Boubaker Dhehibi, Course Coordinator, Social, Economic, and Policy Team, ICARDA, Tunis, Tunisia (b.dhehibi@cgiar.org).
- Dr. Abdulbasit Oudah Ibrahim, Arabian Peninsula Regional Program, ICARDA-APRP, Muscat, Oman (a.oudah-ibrahim@cgiar.org).
- Dr. Muhi El Dine Hilali, Resilient Agro-silvopastoral Team, ICARDA, Amman, Jordan (m.hilali@cgiar.org).
- Dr. Arash Nejatian, Activities Coordinator officer, Arabian Peninsula Regional Program, ICARDA-APRP, Ajman, UAE (a.nejatian@cgiar.org).
- Mr. Wael El Gaaly, Admin course Coordinator, Arabian Peninsula Regional Program, ICARDA-APRP, Ajman, UAE (w.el-gaaly@cgiar.org).
- Mr. Masafumi Tamura, ICARDA Capacity Development Unit (CDU), Cairo, Egypt (m.tamura@cgiar.org).
- Mr. Bastian Mueller, Capacity Development Unit (CDU), Amman, Jordan (b.mueller@cgiar.org).

COURSE STRUCTURE

Course instruction was organized through tutorial and practical sessions, which provided participants with hands-on experience using different analytical methods (qualitative, quantitative), tools (SWOT analysis), and indicators to understand how to conduct a scientific analysis for the date palm value chain (i.e., mapping, upgrading, governance, etc.) and consequently the evaluation of the competitiveness of the GCC date palm sector in the international markets (**see Annex I**). The course covered the following themes / sub-themes:

- **Component I: Theoretical sessions on agriculture value chain (VC) analysis and development**
 - Value chain definition and basic concepts
 - Value chain analysis – Quantitative and qualitative tools
 - Value chain mapping and governance
 - Value chain innovation and upgrading
 - Value chain indicators
- **Component II: Date palm value chain analysis, management, and market linkages**
 - Date palm value chain cycle and market linkages.
 - Innovative harvest and post-harvest practices for sustainable date palm value chain in the GCC countries.

- Strategies and techniques to improve date palm production and hence dates quality in the GCC countries.
- Quality control of date palm products: Hygienic and manufacturing practices, fumigation and storage, processing and packaging.
- SWOT analysis for the date palm value chain in the GCC countries – Presentation and implementation of the tool.
- **Component III: Countries case studies (Annex II)**
 - Presenting the date palm value chain in each one of the six GCC countries
 - Date palm VC status and perspectives
 - Date palm VC mapping
 - Actors and their functions,
 - Markets and market linkages for date palm products
 - Key constraints and opportunities for expanding the date palm VC
 - Strategies to improve competitiveness of the date palm VC at national and international markets.
 - Conducting a SWOT analysis on marketing, commercialization, and competitiveness of date palm products in the each one of the GCC countries.
 - Discussion the findings in plenary sessions.

COURSE IMPLEMENTATION

The course counted with the participation of 6 GCC countries in addition to two participants from Jordan and Egypt. The course was implemented online and attended during the entire five days by 25 participants, from whom 5 were women (**Annex IV**). The part regarding the course instruction was delivered by three ICARDA scientists (**Annex III**). Several thematic areas has been covered such as value chain analysis – definition and basic concepts, quantitative and qualitative tools, value chain mapping and governance, value chain innovation and upgrading, value chain indicators, date palm value chain cycle and market linkages, post-harvest operations of date palms: drying, fumigation, sorting, storage, processing, and packaging, dates quality specification, dates harvesting techniques, SWOT analysis for the date palm value chain in the GCC countries – presentation & implementation process of the of the tool.

The training was supported by practical sessions and countries case studies. In addition, a training technical guideline tool on “**A SWOT Analysis to Identifying Strengths, Weaknesses and Constraints for Marketing, Commercialization and Competitiveness of Date Palm Products in the GCC Countries**” has been produced and shared with the participants in both languages (Arabic and English)¹. The training was conducted and implemented jointly by the ICARDA Arabian Peninsula Regional Program

¹Dhehibi, B., Niane, A., Nejatian, A., Oudah Ibrahim, A., Hilali, M., Al Saghan, M.B., Al Husaini, M.S., Al Aliou, Z., Al Abaad, A. 2021. **A SWOT Analysis to Identifying Strengths, Weaknesses and Constraints for Marketing, Commercialization and Competitiveness of Date Palm Products in the GCC Countries**. 5 p. International Center for Agricultural Research in the Dry Areas – ICARDA.

(ARPRP) staffs, the Social, Economic and Policy Research (SEPR) team, the Resilient Agro silvopastoral Systems team (RASP), and the Capacity Development Unit (CDU) Staffs in the International Center for Agricultural Research in the Dry Areas (ICARDA) with the support from the ICARDA-IT function and MEL teams.

GROUP ASSESSMENT

Given the main outcomes of the training are to understand the importance and enhancing knowledge and skills of the following areas: (1) Value chain: Definition and basic concepts; (2) Value chain analysis quantitative and qualitative tools, and value chain indicators, (3) Value chain mapping and governance, (4) Value chain innovation and upgrading, (5) The date palm market systems in the GCC countries, (6) Date palm value chain analysis and development in the GCC countries, (7) Innovative harvest and post-harvest practices for sustainable date palm value chain in the GCC countries, (8) Strategies and techniques to improve date palm production and hence dates quality in the GCC countries, (9) Quality control of date palm products: Hygienic and manufacturing practices, fumigation and storage, processing and packaging, and (10) Practical examples for date palm value chain in the GCC countries.

The selected participants are fully involved in the ***“Developing sustainable production systems for date palm in the Gulf Cooperation Council countries”*** project. Thus, the post-training assessment, based on groups discussions and interactions, where participants were asked to record the most relevant information from the sessions and explain how they were going to apply this information for the deliverables of the project when they return to their respective countries. Results from this exercise showed a significant increase in the participants’ understanding of the basic concepts on date palm value chain concepts, mapping, upgrading, governance, best post-harvest practices (drying, fumigation, sorting, storage, processing, and packaging), date palm quality improvement, date palm market and market linkages, etc. In addition, and given the important problems that affect dates producing in the GCC countries and the significant marketing opportunities both internally and in importing countries, it is paramount to setup a strategy for increasing the competitiveness, expand profitability, and growth of the dates value chain. To do so, a SWOT analysis has been conducted by all the participants with the aim to identify strengths, weaknesses and constraints for marketing, commercialization, and competitiveness of date palm products. Generally, results from the group discussion, evaluation and interactions indicates that the average participants’ understanding of all delivered topics is quite high and satisfactory.

GENERAL COURSE EVALUATION by TRAINEES

Various evaluations were carried out during the course, including a specific evaluation for each part of the course. Here we present an overview of the final evaluation. Issues considered were the topics and thematic areas of the course, the trainers, and the organization, as well as general suggestions. Regarding the overall assessment of the training course, the participants qualified it as excellent (Annex V).

CONCLUSION

The online training course on “*Date Palm Value Chain Analysis, Management, and Market Linkages in the GCC Countries*” had positive responses from the participants. The satisfaction survey was returned with high scores within the scale of 1-5 (lowest to highest). Overall, most participants found the course interesting and appreciated the interactive learning approach, especially the discussion process, the practical sessions activities, and the opportunity to converse in their own language. They also express their satisfaction and their understanding on the implementation of the training outcomes on the project where they are involved including the ongoing project.

There were also comments or requests for more support from ICARDA scientists to the date palm value chain analysis and development, post-harvest operations and processes in the date palm farming systems, and the best practices to improve the quality of dates. In summary, the training is regarded as a success, however not without issues or revelations. Throughout the course, participants were given opportunities to raise issues that they were concerned with in each thematic area. Some of the main comments or issues raised were:

- Continue using and maintaining the social network created to exchange ideas, experiences, and resolve issues.
- Summarizing the findings, from the practical sessions, in a technical note and share it with all the participants for review, comments, and validation.
- Develop and produce a policy brief from the previous exercise and document it as a deliverable for the date palm project.
- Develop knowledge and increase capacity on post-harvest maturing, drying and related processes in relation to quality
- Expressing their willingness to know more about the Tunisian experience on date palm commercialization and marketing.

Annexes

Annex I: Course Program/Agenda

Organizer:

International Center for
Agricultural Research in the Dry
Areas (ICARDA)



Funders:



Training coordinators at ICARDA:

Dr. Boubaker Dhehibi,
Senior Agricultural Resources
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Dr. Abdel Azize Niane,
Arabian Peninsula Regional
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For more information on ICARDA,
visit www.icarda.org

Sunday, 13 June 2021

Opening and Theoretical Sessions on Value Chain Analysis and Development

13:00 – 13:15 **Opening session**

ICARDA & NARS Representatives

13:15 – 13:30 **Overview of the E-learning training course Program**

Boubaker Dhehibi (SEPRT-ICARDA)

13:30 – 14:15 **Session I: Value chain – Definition and basic concepts**

Boubaker Dhehibi (SEPRT-ICARDA)

14:15 – 15:00 **Session II: Value chain analysis – Quantitative and qualitative tools**

Boubaker Dhehibi (SEPRT-ICARDA)

15:00 – 15:15 Break

15:15 – 16:00 **Session III: Value chain mapping and governance**

Boubaker Dhehibi (SEPRT-ICARDA)

16:00 – 16:15 **Summary Day (I) and Assignment Day (II)**

Boubaker Dhehibi (SEPRT-ICARDA)

Monday, 14 June 2021

Date Palm Value Chain Analysis, Management and Market Linkages

13:00 – 13:45 **Session IV: Value chain innovation and upgrading**

Boubaker Dhehibi (SEPRT-ICARDA)

13:45 – 14:30 **Session V: Value chain indicators**

Boubaker Dhehibi (SEPRT-ICARDA)

14:30 – 14:45 Break

14:45 – 15:30 **Session VI: Date palm value chain cycle and market linkages**

Boubaker Dhehibi (SEPRT-ICARDA)

15:30 – 16:15 **Session VII: Post-harvest operations of Palm Dates: Drying, fumigation, sorting, storage, processing, and packaging**

Muhi EL Dine Hilali (RASPT-ICARDA)

16:15 – 16:30 **Summary Day (II) and Assignment Day (III)**

Boubaker Dhehibi (SEPRT-ICARDA)

Tuesday, 15 June 2021

Date Palm Value Chain Analysis, Management and Market Linkages

13:00 – 13:45 **Session VIII: Dates quality specifications**

Abdulbasit Oudah Ibrahim (APRP-ICARDA)

13:45 – 14:30 **Session IX: Dates harvesting techniques**

Abdulbasit Oudah Ibrahim (APRP-ICARDA)

14:30 – 14:45 Break

14:45 – 15:30 **Session X: SWOT analysis for the date palm value chain in the GCC countries – Presentation of the tool**

Boubaker Dhehibi (SEPRT-ICARDA)

15:30 – 16:15 **Session XI: SWOT analysis for the date palm value chain in the GCC countries – Implementation process of the tool**

Boubaker Dhehibi (SEPRT-ICARDA) & NARS

16:15 – 16:30 **Summary Day (III) and Assignment Day (IV)**

Boubaker Dhehibi (SEPRT-ICARDA)

Wednesday, 16 June 2021

Countries case studies & Closing

13:00 – 16:30 **Session XII: Countries case studies preparations by NARS**

- Preparation for PPT presentations
- Preparation for synthesis technical reports

Thursday, 17 June 2021

Countries case studies presentation & Closing

13:00 – 14:00 **Session XIII: Countries case studies**

*Presentation Case 1: Date palm value chain analysis and development in **Bahrain** (15 mn presentation + 5 mn discussion)*

*Presentation Case 2: Date palm value chain analysis and development in **United Arab Emirates** (15 mn presentation + 5 mn discussion)*

*Presentation Case 3: Date palm value chain analysis and development in **Kuwait** (15 mn presentation + 5 mn discussion)*

NARS, Boubaker Dhehibi (SEPRT-ICARDA) & Abdulbasit Oudah Ibrahim (APRP-ICARDA)

14:00 – 15:00 **Session XIII: Countries case studies**

*Presentation Case 4: Date palm value chain analysis and development in **Oman** (15 mn presentation + 5 mn discussion)*

*Presentation Case 5: Date palm value chain analysis and development in **Qatar** (15 mn presentation + 5 mn discussion)*

*Presentation Case 6: Date palm value chain analysis and development in **Saudi Arabia** (15 mn presentation + 5 mn discussion)*

NARS, Boubaker Dhehibi (SEPRT-ICARDA) & Abdulbasit Oudah Ibrahim (APRP-ICARDA)

15:00 – 15:15 Break

15:15 – 16:00 Session XIV: General discussion

ICARDA Team & NARS

16:00 – 16:30 Closing

ICARDA Team & NARS Representatives

Annex II: Practical Sessions



E-Learning Training Course on “Date Palm Value Chain Analysis, Management, and Market Linkages in the GCC Countries”

Date: 13 – 17 June 2021

PRACTICAL SESSIONS

Assignment: Each country is requested to fill and to respond to the following questions. The results from this exercise will be presented during the last session (Country case study)

Section 1: Date palm value chain and development

1. Areas of production of date palm during the last 5 years (2015-2020)
2. The most important and commercial date palm varieties
3. The irrigated systems used in the date palm farming systems
4. Levels of date production and productivity during the last 5 years (2015-2020)
5. Date palm value chain map: International and national retailing, export and domestic market, wholesale and retail traders, date palm processors, collectors, and brokers, producers (modern and traditional small scale producers, inputs suppliers (seedlings, labor, machinery, chemicals, etc.), and supporting services (extension, packaging, financial services, etc.)
6. Key value chain actors and their functions: Input suppliers, producers, dates collectors/brokers, dates wholesale traders, dates processors, retailers, distributors, dealers, end markets (national and international)
7. Key exports markets of date palm for your country during the last 5 years (2015-2020)

Section 2: Key constraints and opportunities for expanding the date value chain in your country

Please include the Key constraints and opportunities for expanding the date value chain in your country taking into consideration the value chain function in the table below:

Value Chain Function	Main Constraints	Opportunities
Input Supply and Demand		
Production		
Processing		
Wholesaling & Retailing		
Output Market		
Supporting Services		
Business Enabling Environment		

Section 3: A strategy for improved competitiveness of the date palm value chain in your country

Given the important problems that affect dates producing in your country and the significant marketing opportunities both internally and in importing countries, it is paramount to setup a strategy for increasing the competitiveness, expand profitability, and growth of the dates value chain. To do so, we would like to ask you to identify strengths, weaknesses and constraints for marketing, commercialization, and competitiveness of date palm products in your country. The following matrix presents the components of the SWOT analysis through a set of questions. Please provide max 5 responses in bullet points to each one of the questions below:

<p style="text-align: center;">STRENGTHS</p> <p>Question: What is already in place that is contributed to improve the marketing, commercialization, and competitiveness of dates and date palm products?</p>	<p style="text-align: center;">WEAKNESSES</p> <p>Question: What are the challenges that need to be addressed to improve the marketing, commercialization, and competitiveness of dates and date palm products and how?</p>
1. 2. 3. 4. 5.	1. 2. 3. 4. 5.
<p style="text-align: center;">OPPORTUNITIES</p> <p>Question: What are the existing and future opportunities to improve the marketing, commercialization, and competitiveness of dates and date palm products and how they can be mobilized?</p>	<p style="text-align: center;">THREATS</p> <p>Question: What are the existing and dynamic risks to be guarded against in order to improve the marketing and competitiveness of the date value chain (i.e., dates and date palm products) and what mitigation actions are needed to put in place to overcome these threats?</p>
1. 2. 3. 4. 5.	1. 2. 3. 4. 5.

Annex III: About Trainers

Trainers	Name & Surname	Institution	E-mail
1	Dr. Boubaker Dhehibi	SEPR Team - ICARDA	b.dhehibi@cgiar.org
2	Dr. Abdulbasit Oudah Ibrahim	APRP Team - ICARDA	a.oudah-lbrahim@cgiar.org
3	Dr. Muhi EL-Dine Hilali	RASP Team - ICARDA	m.hilali@cgiar.org

Short bio - Trainees

	<p>Dr Boubaker Dhehibi is an Agricultural Resource Economist Specialist in the Resilient Agricultural Livelihood Systems Program (RALSP) at ICARDA. He is distinguished for his research and teaching on production economics, climate change, economics of natural resources management, applied micro-econometrics, food demand analysis, international trade, value chain analysis and marketing of agro-food products, economic modeling, competitiveness and productivity analysis of the agriculture sector in MENA region, growth analysis and economics of development. He has published more than 90 research publications in peer reviewed journals, book chapters, international conferences, working papers and proceedings.</p> <p>Contact: b.dhehibi@cgiar.org</p>
	<p>Dr Abdulbasit Oudah Ibrahim is a Date Palm physiologist and Horticulture Expert. He has and experience in this subject for more than 40 years. Dr Abdulbasit served as the Head of Horticulture and Date Palm Department from 2/10/1997 to 22/4/2001, Basra University; Dean of Agriculture Faculty, Basra University from 23/4/2001 to 24/4/2003; Head of date palm program (The Arab Center for the Studies of Arid Zones and Dry Lands) ACSAD from 16/10/2005 to 1/5/2011; Director of Plant Resources Dept. (The Arab Center for the Studies of Arid Zones and Dry Lands) ACSAD from 1/6/2007 to 1/5/2011; Date palm horticulture expert in Million date palm plantation in Oman Sultanate. 10/5/2011- 10/5/2020; Part-time Consultant to National Center for date palm and dates (NAKHL) / Riyadh: 2014 -2015; Part- time Consultant to Indonesian Date Palm Association (IDPA) 2017-2019; and Date Palm Specialist, Consultant in the Arabian Peninsula Regional Program (APRP). ICARDA. 10/20210. He has an outstanding international experience in the date palm sector which covers Jordan, Syria, Yemen, Iraq, Egypt, Oman, Saudi Arabia, Bahrain, Algeria, Qatar, and Indonesia. He collaborated with several international organizations such as IDB, FAO, AAAID, and AOAD. He has published more than 77 scientific articles, 16 Books; 10 Booklets, and 3 Patents. His research was coronated in 2019 by the prestigious Khalifah International Award for Date Palm and Agricultural Innovation (season 11) as Influential Figure in the Field of Date Palm and Agricultural Innovation.</p> <p>Contact: a.oudah-lbrahim@cgiar.org ; abdulbasit1956@gmail.com</p>



Dr Muhi El-Dine Hilali is a Food Sciences and Biotechnology specialist. He has long experience in milk handling, hygiene and dairy processing. He worked with farmers and small processing units in different countries in Asia, Africa and Latin America on milk management and processing, implementing specific technologies for sheep and goat production in relation to traditional products. He conducts research in the area of food technology, milk transformation and the development of dairy products and processing methods. Characterization and analysis of dairy products. Sensorial and organoleptic properties of dairy products. He has extensive experience in management of equipment for milk analysis and evaluation. He has ample knowledge in adjustment of laboratory equipment, in particular equipment to analyze milk and milk products, installation and operation. His interests include the use of renewable energy particularly the utilization of solar power in food processing

Contact: m.hilali@cgiar.org

Annex IV: List of Participants & List of Contacts

E-Learning Training Course on Date Palm Value Chain Analysis, Management, and Market Linkages in the GCC Countries" from 13-17 June 2021						
Enhancing Integrated date palm Production System in the GCC countries of the arabian peninsula - Date Palm Project						
List of Participants - Online meeting (TEAMS) from 13- 17 June 2021						
No #	Name	Country	Organization	Address	Mobile	Email Address
1	Eng. Sadiq Isa Mansoor	Bahrain	Ministry of Works , Municipality Affairs and Urban Planning	P.O.Box: 251 - Kingdom of Bahrain	(9733) 930-5522	simansoor@mun.gov.bh
2	Eng. Khalifa Ebrahim Al Amin	Bahrain	Ministry of Works , Municipality Affairs and Urban Planning	P.O.Box: 251 - Kingdom of Bahrain	(9733) 909-9469	kalameen@mun.gov.bh
3	Eng. Shama Al Shamsi	UAE	Ministry of Climate Change and Environment	P.O.Box: 1509 - Dubai - UAE	(9715) 043-0100	saalshamsi@moccae.gov.ae
4	Eng. Halima Al Baloushi	UAE	Ministry of Climate Change and Environment	P.O.Box: 1509 - Dubai - UAE	(97150) 670-9870	hyhassan@moccae.gov.ae
5	Eng. Hussain Fadhel Al Faras	Kuwait	Public Authority Of Agriculture Affairs & Fish Resources	P.O. Box 21422, - Safat (13075) - Kuwait	(9656) 065-5554	hffaras@gmail.com
6	Eng. Abdelraouf Mohamed El Shazly	Kuwait	Public Authority Of Agriculture Affairs & Fish Resources	P.O. Box 21422, - Safat (13075) - Kuwait	(9659) 914-7578	shazly60660389@gmail.com
7	Eng. Kamal Ebrahim Aboughal Youn	Kuwait	Public Authority Of Agriculture Affairs & Fish Resources	P.O. Box 21422, - Safat (13075) - Kuwait	(9659) 600-0483	essaahmad138@gmail.com
8	Eng. Omar Awadh Alotaibi	Kuwait	Public Authority Of Agriculture Affairs & Fish Resources	P.O. Box 21422, - Safat (13075) - Kuwait	(9659) 741-3866	Omarr97413@gmail.com
9	Eng. Nasser Awadh Abdulmoneim	Kuwait	Public Authority Of Agriculture Affairs & Fish Resources	P.O. Box 21422, - Safat (13075) - Kuwait	(9655) 591-2143	226nnn@gmail.com
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Note: Personal information including Name, Business Title, Email, Phones, Images and GPS points included in this report have been authorized in writing or verbally by the data subject.

Annex V: General Course Evaluation

Evaluation Component	Average
1) I received sufficient information on the workshop in advance	Very good
2) Information sent via email were effective	Excellent
3) The duration of each session was appropriate	Very good
4) The subjects covered during the workshop were useful	Very good
5) The subjects delivered in the workshop added new knowledge and information to mine	Excellent
6) Presentations delivered by participants was clear and related to the workshop subject	Very good
7) The technical presentations presented by experts were useful and related to the workshop subject	Excellent
8) The moderators managed the sessions time efficiently	Very good
9) The moderators encouraged participants to positively interact	Very good
10) The answered and questions session was sufficing, and queries raised answered clearly	Excellent
11) The workshop subject is applicable in practice	Very good
12) The length of the workshop was adequate for the contents	Very good
13) I find Microsoft team suitable for online training	Very good
14) Level of utilization of the subject and contents of the workshop	Very good
15) The workshop met its objectives	Very good
Overall how you rate this training workshop	Excellent