



ANNUAL REPORT 2020

**Afghanistan National
Horticulture Development
Organization**





Afghanistan National Horticulture Development Organization

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Chair's Foreword

On track towards change, using vulnerable land and water caringly.

I genuinely believe that our organization—Afghanistan National Horticulture Development Organization (ANHDO), as a leading organization in horticulture sector, has a key role in improving growth and sustainability in the horticulture sector and food security of the country. We take enormous pride to see how Afghan farmers and growers thrive towards improving their performance and capability year by year, facing the challenges of climate change, pest and diseases, water resource issues and challenging logistics. Individual farmers, orchard growers, natural resources management, some key stakeholders; and partners are among those whom we influenced by means of various type of service delivery.

As Managing Director of ANHDO, I have noticed the increase in excellent potential skills and experiences of the staff members and improvement of projects planning, implementation, and Monitoring and evaluation quality over the past year, applying our best and innovative practices to delivery our services to our beneficiaries. I passionately believe we are now progressing tremendously and are on-track to implement the most recent horticulture technologies in the country. The day-to-day operation of ANHDO reflects the three major priorities based on which our progress is made:

- ♦ Intensely work on creation of commodity-specific ANHDO Value Chain Promotion Groups.
- ♦ Efforts on food security and natural resources management
- ♦ Overall improvement of organizational development, including staff training and development (ANHDO has also made

organizational development part of its organizational culture).

- ♦ Development and implementation of a five-year strategic plan

We can achieve these goals through ensuring best quality in our implementation of programs. We aim to uphold and continue our success of this year by doubling our efforts in upcoming years, working through partnerships and government support and national collaboration to help us approach the resilient base group.

I would like to take this opportunity to acknowledge all of our members, academic and non-academic partners, and all other stakeholders for their significant contribution to eliminate some barriers and overcome the challenges of contributors.

I would also like to extend my sincere and heartfelt thanks to all those great personals, who helped pave the ground for ANHDO to implement its programs effectively and efficiently during 2019, and dedicated their valuable time and talent to our organization. Without the critical contributions of project leaders, managers and their subordinates, this achievement would not have been made possible.

Special acknowledgements go to ANHDO Board of Directors (BoD) members and Senior Management, who have invested their full efforts in guiding the team in achieving the goal. Meanwhile, I extend my gratitude to all our donors for their financial support of our projects.

I would also like to thank the Ministry of Agriculture, Irrigation and Livestock (MAIL) for contributing with ANHDO in both policy making and project implementation in various ways such as; identifying targeted areas, selection of beneficiaries (DAIL) and the types of their capacity building.

Best Regards,

Najibullah Enayat

Glossary of Acronyms

ADB	Asian Development Bank	IAF	International Accreditation Forum
AKDN	Aga Khan Development Network	IAO	The Istituto Agronomico per l'Oltremare
ANHDO	Afghan National Horticulture Development Organization	IAS	International Accreditation Services (USA)
ANNGO	Afghanistan National Nursery Growers Organization	IDCO	Mercy Corps
ANSA	Afghan National Standard Authority	IFRS	International Financial Reporting System
ARIA	Agriculture Research Institute of Afghanistan	ILO	International Labor Organization
ASRA	ASRA Consulting	IPM	Integrated Pest Management
B2B	Business to Business	IPM	Integrated Pest Management
BMP	Best Management Practices	ISO	International Standard Organization
BMP	Best Management and Operating Practices	IT	Information Technology
BoD	Board of Directors	MAIL	Ministry of Agriculture, Irrigation and Livestock
BoD	Board of Directors	MAIL	Ministry of Agriculture, Irrigation and Livestock
BOP	Best Operating Practices	MD	Managing Director
CBA	Cost Benefit Analysis	MoE	Ministry of Economy
CBARD	Community-Based Agriculture and Rural Development	MoU	Memorandum of Understanding
CBRD	Corporate and Business Registration Department	MoU	Memorandum of Understanding
CDCs	Community Development Councils	MSN	Mother Stock Nursery
CDS	Community Development Authority	mt	Metric ton
CGG	Citrus Grower Group	MT	Metric Tones
CPG	Citrus Promotion Group	NC	National Collection
CPN	Certified Production Nursery	NC	National Collection
CSO	Central Statistic Organization	NGA	Nursery Growers Association
CTV	Citrus Tristeza Virus	NGO	Non-governmental Organization
DAIL	Department of Agriculture Irrigation and Livestock	NGO	Non-Governmental Organization
DAIL	Department of Agriculture Irrigation and Livestock	NHLP	National Horticulture and Livestock Program
DDA	District Development Authority	NNGA	Nangarhar Nursery Growers Association
DoE	Department of Economy	NVDA	Nangarhar Valley Development Authority
ELISA	Enzyme Linked Immune-sorbent Assay	OCA	Odoo Community Association
EPAA	Export Promotion Agency of Afghanistan	OD	Organizational Development
EU	European Union	PAIL	Provincial Agriculture Irrigation and Livestock
FFS	Farmer Field School	PBTL	Plant Biotechnology Laboratory
FH	Field Horticulturist	PDCs	Provincial Development Council
FM	Field Manager	PDM	Post Distribution Monitoring
GA	General Assembly	PECB	certification body
GA3	Gibberellic Acid	PHDC	Perennial Horticulture Development Center
GAP	Good Agricultural Practices	PHDP II	Perennial Horticulture Development Program
GMSQR	certified Quality Management System	PPQD	Plant Protection and Quarantine Department
GoA	Government of Afghanistan	PPT	PowerPoint Template
GRPG	Grape and Raisin Promotion Group	RADAP	Regional Adaptive Affinitive Patterns
HACCP	Hazard Analysis and Critical Control Point	RECS	Expert Consulting Services
HACCP	Hazard Analysis and Critical Control Point	RI	Relief International
HOTP	Horticultural Development Transition Project	RRAA	Rural Rehabilitation Association for Afghanistan
HLB	Huang Long Bing - Citrus Disease	SDGs	Sustainable Development Goals
HPS	Support to the Development of Agriculture Private Sector	SPCD	Seed and Planting material Certification Directorate
HR	Human Resource	SPS	Sanitary and Phytosanitary
HRD	Human Resource Development	TA	Technical Assistance
HRIS	Human Resource Information System	ToT	Training of Trainers
HVCDSP	Horticulture Value Chain Development Sector Project	WHH	Welthunger Hilfe
HVP	Horticulture Value-chain Project		

Executive Summary



Afghanistan horticulture had an essential role in the past and will continue to play a substantive role in future of the Afghan rural economy to develop a prosperous society. Responding to the Afghanistan and international horticulture demand, will remain the long-term goal of ANHDO and its donors. Despite huge destruction during the last four decades of conflicts, Afghanistan's highly favorable climate condition for many fruit tree and vegetable species will raise livelihoods and opportunities for a better economy as base for modern horticulture with more emphasize on quality control and increase production. Enhancing Afghan horticulture sustainability and competitiveness is our principal mantra.

The 2018 report reveals the activities, outcomes, major success and impacts of ANHDO on Afghanistan horticulture highlighting its contribution to increase transparency, accountability and to share expertise with key stakeholders, donors and partners. The main focus of ANHDO is on empowering communities to improve the life quality by means of implementation of horticultural practices to enhance agri-enterprises. In order to make our organization more efficient, we are concentrating on introduction of new approaches for best process. ANHDO assists farmers and growers to meet the challenges, enhance productivity, improve market access, reduce crop losses and engaging beneficiaries in resilient Afghan horticulture and how to reduce dependence on donors and ANHDO. ANHDO has also made organizational development and staff learning & development part of its organization culture.

ANHDO activities comprises five main components: Supporting the Afghan private sector nursery

industry and its associated organizations and institutions meet the nation-wide demand of Afghan farmers for certified perennial plant material to increase planting of modern orchards and vineyards.

Adaptive research and technical development programmes to successfully provide the technical solutions to increase orchard and vineyard productivity and value to the consumer at household, and national level.

Pilot demonstrations of enhanced post-harvest management systems and market-driven value chain development for key perennial horticulture crops within target areas and target groups.

The development of a soundly-based and profitable citrus industry in eastern Afghanistan.

Improvement/development of natural resources and sustainable land and water management that contribute to food security, maintaining healthy/friendly environment and ecosystem

Impressive progress reflects milestones in organizational success and policy improvement, which was accomplished through internal and external audit and assessment, on how effective the institution was to bring meaningful achievement.

ANHDO services in the past year benefited more than 3500 farmers, with technical horticultural support and market linkages. We are continuously working to translate our vision into reality. ANHDO has focused on improvement of capacity building of both individuals and relevant institutions. The ANHDO annual balance sheet shows a significant increase in the net worth and strong financial position. In upcoming years, ANHDO outlined a way forward that concentrates on a sustainable horticulture and, finalized our long-term strategic plan and creation of promotion groups. Achieving

Continued...

these objectives will confidently support us to contribute to achieve sustainable development goals (SDGs) in both people and organizations.

Objectives in focus for upcoming year:

- ▶ Reform packaging, processing, storing, grading and sorting systems.
- ▶ Ensuring product quality to meet international standards.
- ▶ Help to build business linkage with potential investors, producers and buyers.
- ▶ increase the income of producers by introducing new and advanced technology and methodology.
- ▶ facilitate and coordinate efforts between private and public stakeholders in support of horticulture development.
- ▶ Design projects for promotion of good practices and standards and building capacities.
- ▶ Provide standard management system to modern and commercial orchards.
- ▶ Development of pre & post-harvest system for dried, fresh and processed fruits.
- ▶ Introduce and propagation of commercial clonal rootstocks.
- ▶ Effective transfer of the authentication system from compulsory to bipartite.
- ▶ Promoting Production of healthy and certified saplings through plastic bags.
- ▶ Transferring saplings production from open ground to greenhouses.
- ▶ Support private sector in developing ornamental plants.
- ▶ Farm to fork approaches.
- ▶ Design and promote irrigation system from ordinary towards drip and sprinkler system.
- ▶ Improve Value chain promotion groups capacity



Background



Afghanistan National Horticulture Development Organization (ANHDO) is a national non-governmental, nonprofit and non-political organization registered with the Ministry of Economy and established in April 2009. The development of ANHDO is part of the European Union (EU) and the Ministry of Agriculture, Irrigation and Livestock (MAIL) long term strategy for the development of horticulture sector in Afghanistan. Since then, ANHDO has developed into an important institution for horticulture development by comparing among other skilled and experienced Afghan professional organizations in the horticulture sector. ANHDO is operating in close coordination with the Ministry of Agriculture, Irrigation and Livestock (MAIL) based on separate Memorandum of Understanding (MoU). Hence, ANHDO is a corner stone of the longterm strategy for the development of the horticulture sector in Afghanistan.

ANHDO has implemented successfully many projects such as Support to the Development of Agriculture Private Sector: Perennial Horticulture” (HPS), Horticulture Value Chain development Project (HVP), Support to Afghanistan’s Private Sector “Horticulture Development Transition Project, Global Horticulture Assessment; Herat Pistachio Project (IAO), Trainings for DAIL Extension Staff which were funded by EU, AFD, ILO, Italian cooperation and French Embassy (Pole de Stabilite’) in twenty two provinces of Afghanistan. ANHDO has a five-year strategic plan and is operating under the guidance of board of directors giving a strategic direction to the organization. And currently is running the projects like, Support Services for Efficient Production of Citrus in Nangarhar (UNODC, Strengthening food security and natural resource management in Nangarhar (BMZ/ WHH) , Afghanistan Integrated Pest Management on Almond, Grape and Peaches in the North (GIZ), World Food Program (WFP) and Word Bank.

Our vision is:

A sustainable and profitable horticulture industry for a better life in Afghanistan.

Our mission is:

To enable horticulture stakeholders to improve horticulture industry by providing technical services, upgrading capacities, and promoting public- private coordination.

Our Core values are:

- Integrity
- Teamwork
- Responsibility
- Partnership
- Professionalism
- Quality

Areas of intervention

Since 2014, ANHDO built on and extended the achievements of the EU Funded Perennial Horticulture Development Program (PHDP) phases I and II (2006 to 2014) through four components or corporate specific objectives:

Value Chain Enhancement: Pilot demonstrations of enhanced post-harvest management systems and value chain development for key perennial horticulture crops.

Citrus Industry Development: developing a soundly-based and profitable citrus industry in Eastern Afghanistan.

Adaptive Research: Providing technical solutions (in coordination with ARIA) to increase productivity and values.

Nursery Development: increasing capacity of the Afghan private sector nursery industry to meet the demand for certified genetic plant material of Afghan fruit farmers.

Continued...

Natural Resources and Sustainable Land and Water Management: Improvement/development of natural resources and sustainable land and water management that contribute to food security, maintaining healthy/friendly environment and ecosystem.

Through Value Chain Development, ANHDO provided support to the all chain actors including producers, traders, processors and exporters, aiming to supply standard horticultural produce to meet domestic and international markets requirements. These objectives were addressed through capacity improvements of quality control structure to introduce traceability, ISO certifications, Global GAP and HACCP concept. Improved standards and market value, income, self-confidence, awareness, increased possibility of export products and public-private partnerships are targeted impact of our value chain initiatives. The Citrus Industry Development has been rebuilding the citrus industry in Afghanistan, mainly focusing on rehabilitation and establishment of commercial citrus orchards, introduction of commercial and marketable varieties of citrus, supporting citrus processing companies, capacity building of producers and traders to meet the increased market demands. The Adaptive Research supported finding technical solutions to serve the development of the Afghan Horticultural Sector and ensure-market driven priorities.

The Nursery Industry Development supported the Afghanistan National Nursery Growers Organization (ANNGO) to open up memberships for large-scale commercial nurseries and provides specific technical support to nurseries in order to promote production of certified fruit saplings and ornamental plants.

This will impact on improvement of the business, sustainability, quality and opening up market opportunities.

ANHDO provided support to ARIA in order to enhance the on-going adaptive research in the six Perennial Horticulture Development Centers (PHDC's) in the provinces Kunduz, Mazar, Herat, Kandahar, Kabul and Jalalabad. The main focus is on fruit germplasm development and description, breeding program on almond and apricot, pollination and rootstock trials as well as pomology laboratory activities determining fruit quality parameters, maturity indices and enhancing shelf life.

ANHDO's Values In order to achieve our long-term goals, ANHDO invests and strictly follows its values:

To achieve long-term sustainability of our objectives
To empower ANHDO's staff and beneficiaries to contribute for positive changes

To keep ANHDO accountable and transparent for our planned actions

To respect the national environment protection policy and avoid harmful activities

To welcome constructive partnership and cooperation from any relevant source

Our Funding

Over the past years, ANHDO's activities have been supported by the European Union (EU), the Agence Française de Développement (AFD), the Italian Development Cooperation in Afghanistan (IDCO), International labor organization (ILO), BMZ/Welthunger hilfe, United Nation Office for Drugs & Crimes (UNDOC), World Food Program (WFP), World Bank and GIZ

(See Annex I.)

Drip Irrigation System for Straw Berry



NURSERY INDUSTRY & IPM DEPARTMENT



The Nursery & IPM Department technical team conducted a horticulture survey of 11 provinces (Kabul, Maidan Wardak, Logar, Nangarhar, Laghman, Bamyan, Ghazni, Paktiya, Paktika, Khost and Kunar) to identify main horticulture crops production data, during the time a MoU between ANHDO & ANNGO has been signed aiming to visit and provide technical instructions to mother stock and clonal rootstock owners within the ANHDO targeted provinces. As a result, in close coordination with ANNGO, the staff was able to visit Surobi and Kapisa NGA mother stock nurseries and rootstocks to identify pest and diseases and provided technical information on how to control pest and disease in the field.

Also, the department technical team has prepared and developed a guideline for stone and pome fruit common pests and diseases with brilliant pictures, the guideline is going to help the farmers and other readers to identify and control pest and disease easily in the field.

During the year, many visits have been occurred to ornamental nursery which was established in Babor Garden by ANHDO. Based on the observation, the nursery seemed good and the ornamental plants have been extended within the garden through cutting and multiplication methods.



A view of pomegranate mother stock nursery in Surobi

As per the OD action plan, the department team has delivered the “Business Ethics Awareness” training to 8 ANHDO employees including (4 female & 4 Male) in Nangarhar Regional office. The main training objective was to improve the employees’ behavior and to create productive work environment in the organization. In addition, the team organized a technical training under the title of Apple Codling Moth to program technical staffs, during the training, technical discussion, innovation and knowledge sharing between program staffs was done as well.



visiting certified citrus nursery in Surobi

ADAPTIVE RESEARCH DEPARTMENT



The Adaptive Research Department staff has upgraded the bigger almond pollinizer chart and revision of plum self-pollination trail. This department prepared 13 trail reports on (Chilling Hours Trail, GA3 Trail, Effect of Gibberellic, and Apple Rootstock Trail & Pollination trail). Also, the department team prepared the research protocols and have done field visit to update the maps and almond breeding lines that were transplanted in 2015 and 2016.

As per PARSA request, the department staffs has drafted a work plan for 11.5 Jeribs land orchards including 4 greenhouses to Marastoon area in Kabul city. Therefore, the plan has been submitted to PARSA responsible person and the given plan met PARSA's expectations.

As per request of MAIL/ARIA, the adaptive research technical team prepared a concept of 11 pages on how to empower women to take part in agriculture value chain; the concept has been submitted to ARIA for further process. In addition, the team has also provided technical supports to ARIA staffs practically in the field; the trainees have received trainings on how to select trees for pollination, pollination labeling, ribboning, bagging and ways how to pollinate the bagged branches of the fruit trees.



A view of 11.5 Jeribs of land in Marastoon



A view of 11.5 Jeribs of land in Marastoon

And, as per the OD action plan, the team organized a technical training under the title of Off-Season Orchard Management to program technical staffs, during the training, technical discussion and knowledge sharing between program staffs was done as well.

VALUE CHAIN DEVELOPMENT & MARKETING DEPARTMENT



The Value Chain & Marketing department staffs has conducted market survey of fresh and dry fruit to identify the cost fluctuation and availability of fruits in the market. Based on the survey, it has been observed that the majority of the fresh fruit is importing from the neighboring countries (Iran, Pakistan, China and India). Also, it was observed that there is lack of cold storages facilitation and low standard of fruit packaging that can damage fresh fruit traders and wholesalers in the market.

During the time, an agreement has been signed between ANHDO and Real Expert Consulting Service (RECS). Based on that, a one day awareness training session was organized to 20 participants (3 female & 17 male) on ISO Certification by RECS aiming to facilitate the importance and procedure of the certificate through a standard way to benefit the companies and clients (growers, processors, and traders), this service is going to help the companies fulfilling their needs and requirement based on the national and international markets. In addition, the value chain technical team has also provided information about importance of hygiene and safe sanitary practices, pre-cooling and packaging of horticulture products to the participants.

The department staffs in close coordination with Gender Unit has facilitated one day training on food processing techniques to 16 Afghan Agriculture Women Group (AAWG) members. The participants learned how to make Jam, Pickles, Ketchup, Tomato Paste and Chutney during this training.



While the participants making Ketchup



While the participants making Apple Jam

CITRUS PROMOTION DEPARTMENT



As per OD department action plan, the department team has organized the practical and theoretical citrus drip irrigation training to ANHDO program technical team in Gushta district. During the training, the participants visited greenhouses, citrus and vegetable drip irrigation systems. Also technical discussion and knowledge sharing between program staffs was done.



Vegetable Green House Visit in Gushta



Citrus Drip Irrigation system visit in Gushta

Coordination Meetings:

During the time, the program team was able to participate in Agriculture sectorial meetings of Kabul, Samangan, Balkh, Kapisa, Nangarhar, Herat, Parwan and Kunduz provinces and presented ANHDO activities to the participants. The team was also able to participate at the OCHA/HUG on line meeting which was facilitated by ACBAR and was focusing on preparedness and actions on COVID19 outbreak national wide. In addition, the team participated in Afghanistan Accountability Initiative survey which was conducted by WHH aiming to involve and bring the communities in project planning and strategy development. Moreover, the team participated in Combat Energy Poverty and, Climate changes and air pollution conference in Kabul. The conference was organized by GARES. And, the team attended in GIMC Online international training which was mainly focused on increasing chemical security practices for agriculture sector Webinar series in Kabul.

Welt hunger hilfe (WHH) / Strengthening Food Security and Natural Resource Management in Nangarhar, Afghanistan

Project Introduction and Beneficiary Selection:

During the time, the project registration has been successfully completed with all level of line departments including DoEc, DAIL and district authorities. At the same time orientation and introduction of the project took place during the registration process to the mentioned line departments and district authorities. As per the project agreement and developed criteria, a total of 642 people have been selected as actual project beneficiaries in Kama, Gushta and Khewa districts of Nangarhar province (**600 Female & 42 Male**) and then a total of 78 Women Group Leaders have been selected.

Project Activities:

During the reporting period, 26 small greenhouses were successfully installed to 26 women, and technical instructions were given to greenhouse operators on cultivation of vegetable during the spring season.

In addition, 260 kitchen gardening to 260 women were established, the 260 women have also received kitchen gardening tools and material in Gushta, Khewa and Kama districts of Nangarhar province. Furthermore, 208 kitchen coops to 208 vulnerable and deserved families have been constructed. After that, 4,160 kitchen layers have been distributed to these families in targeted districts. Each family received 18 chickens with 2 roosters for better laying process. During the time, Layers chicken feed distribution program has been also successfully completed for 26 targeted Communities. The package was 100 kg feed as per individual beneficiary.

NO	District	# of Beneficiaries per Community	# of Layers Chicken Package	# of Chicken per Community
1	Goshta	98	20	1960
2	Kama	62	20	1240
3	Khewa	48	20	960
TOTAL		208		4160

The hygiene toolkits and material have been distributed to 600 women in presence of Nangarhar DAIL staffs, WHH staffs, districts authorities and ANHDO technical staffs in the targeted districts. Also, solar incubator machines with comprehensive packages have been successfully distributed to 4 actual beneficiaries in the target district of Kama, Gushta and Khewa districts.



Constructed Kitchen Coops



Hygiene Tools Distribution Event

Women Capacity Building:

During the year, capacity building trainings on land preparation, kitchen gardening, poultry and irrigation system were conducted to 600 women including 78 women group leaders in the targeted districts. In the meantime, hygiene and nutrition trainings to 600 women as project beneficiaries were conducted through theoretical and practical methods in Kama, Gushta and Khewa districts. Meanwhile, 78 Women group leaders received best management practice of layers chicken, safe using of pesticide, integrated pest and diseases trainings in the targeted districts.

Furthermore, the team has conducted TOT training on compost making to 10 people; as a result, 78 women group leaders received the same training material, then the women group leaders were able to deliver this material to other project beneficiaries of Kama, Gushta and Khewa districts. Also, the project team organized an exposure visit to 9 commercial greenhouse farmers from Noor-Ensaf Agriculture input supplier Company. The purpose of the visit was to establish linkages between the commercial greenhouse farmers with their relevant stakeholders in future.

The fruit and vegetable processing trainings to 600 women project beneficiaries have been successfully conducted and completed. The trainings have also covered the 26 targeted communities of Kama, Goshta and Khewa districts of Nangarhar province. Then 600 women have received comprehensive package of fruit and vegetable processing toolkits.

Seed Producers Support:

During the reporting period, the project team organized exposure visits and meetings with 9 local vegetables seed growers aiming to establish market linkages between seed producers with relevant stakeholders. The visit took place in **Ab. Rahman and Hewad Agriculture** input suppliers in JAL city. Meanwhile, 9 local vegetable seed producers received on Job training regarding fall season vegetable cultivation and land preparation for garlic, Spinach and onion in the target districts of Nangarhar province. Also a comprehensive package of 21kg Garlic, required fungicide, insecticide, 30kg DAP & 30Kg Urea have successfully distributed to 9 local seed producers for fall and winter season vegetable cultivation.

Field Day:

A field day on Water Saving Technology (DRIP IRRIGATION) has been conducted in Gushta district that a total of 94 people were participated. The field day was aimed to disseminate the results of water saving technology with other growers who are utilizing underground water as flood irrigation. Moreover, the project team has organized a field visit for the local partner of Jawzjan (PRB and WHH); during the visit, the participants visited poultry portion, local vegetable seed producers, fruit processing, kitchen gardening and water saving technology activities in Gushta district of Nangarhar province.



Water Saving Technology Field day

Publicity:

Radio messages for nutrition and hygiene campaign have been broadcasted through SHARQ & ISLAH GHAG radio stations in eastern provinces. During the time, 552 messages have been announced.

(GIZ) Improve yields and quality of almond production in Balkh leading to increased incomes for producers.

Project Introduction and Beneficiary Selection:

During the time, the project registration has been successfully completed with all level of line departments including DoEc, DAIL and district authorities. At the same time orientation and introduction of the project took place during the registration process to the mentioned line departments and district authorities. Moreover, the project team has participated in Balkh Kundoz and Samangan PAILs sectorial meetings and presented/introduced the IPM project activities to the audience. As per the project agreement and developed criteria, a total of 413 almond orchard growers were selected as actual project beneficiaries in Balkh & Samangan provinces.

Capacity Building:

The project team in close coordination with EU-FARM GIZ was able to conduct **Off & On-Season** training sessions to 413 almond growers in Balkh, Samangan and Kundoz provinces. Beside the growers; GIZ staff, DAIL extension workers and agriculture institute students were also participated in the trainings. The main purpose of the trainings were to improve capacity of almond orchard growers on pest and diseases identification and improve their capacity on how to use the organic pesticide within the almond orchards. The orchard growers were also instructed to decrease application of hazardous synthetic pesticide inside the orchards.



On-Season Training to Samangan Almond Orchard Growers



On-Season Training to Samangan Almond Orchard Growers

As per official request by Dean of Agriculture and Veterinary Institute of Samangan, the project team organized one day IPM training to 80 agriculture institute students, at the end of the training, the students received a package of IPM brochures as well.

During the time, an assessment of the laboratory with Director of Plant Protection Department has conducted in Aybak. The project team has collected some necessary information on Trichogramma wasps and its production and release mechanism. Trichogramma is a tiny parasite that attacks the eggs of over 200 species of moths and caterpillars. Trichogramma is extremely small and able to lay down its eggs inside the eggs of moths preventing from hatching into a caterpillar. This prevent can easily damage the feeding caterpillars system and breaks the life cycle of the pest, especially, preventing the pest from reproducing.

Almond Orchards Promotion:

The IPM field extension workers followed up the almond orchard best practices with the growers in targeted provinces (Balkh, Samangan & Kundoz) to make sure the orchards are in a good condition and then, technical instructions have been given to the orchard growers. Moreover, the project team provided technical information to field extension workers about almond scale insect, Aphids, Mite control, Organic pesticide and Agro-chemical combination brochures. After that, the extension workers were able to transfer successfully the same material to the almond orchard growers of Samangan, Kunodz and Balkh provinces. In close coordination of plant protection department of DAIL, agro-chemical and local chemical companies were surveyed in Balkh province, and the list of

approved pesticides is updated and shared with orchard growers in targeted areas.

During the reporting period, the project team arranged and conducted round table meetings to 115 Almond orchard growers in targeted districts of Balkh and Samangan provinces. The meetings program were inaugurated by speech of Balkh & Samangan Agriculture Directorates whose mainly talked over about almond production and exports opportunities to the foreign counties. During the meetings, information about agro-chemical application were also given to the farmers and other meeting participants.



Round Table Meeting in Samangan



Round Table Meeting in Balkh

Project Visibility & Publicity:

The project technical team in close coordination with EU-FARM GIZ project, prepared and distributed 6500 IPM brochures (**Almond Scale Insects, Mites, Bark Beetle, Gummosis, Anthracnose and Grape Powdery Mildew**) and 2000 IPM posters (**Lime Sulphure & Useful insect**) to EU-FARM, agriculture institute and University students of Kundoz, Balkh and Samangan provinces.

Support Services for Efficient Production of Citrus in Nangarhar (UNODC)

Project Introduction and Beneficiary Selection:

During the time, the project registration has been successfully completed with all level of line departments including DoEc, DAIL and district authorities. At the same time, orientation and introduction of the project took place during the registration process to the mentioned line departments and district authorities. As per the project agreement and developed criteria, a total of 500 citrus orchard growers were selected as actual project beneficiaries in Sukhroud, Gushta, Khewa and Rodat districts of Nangarhar province.

Capacity Building:

26 technical training sessions on IPM, Nutrition, Irrigation and citrus pruning methods have been conducted to 500 citrus growers in the targeted districts. At the end of the trainings, IPM toolkits (Spray Pump, Gloves, Soap, Mask and Pesticide) have distributed to 500 citrus growers. In the meantime, a specific training on Drip Irrigation System was organized to 27 citrus growers whose orchards installed with drip irrigation system in Gushta district.

Drip Irrigation Installation:

Based on pre-set criteria and evaluation process, 80 Jeribs citrus orchards were selected and installed with drip irrigation system. During the time, each system was evaluated several times to make sure the systems are installed correctly in the field. Meanwhile, several visits have been conducted to each orchard growers to make sure the growers are following the given instructions and are familiar with the system.



Installation of drip irrigation system to citrus orchards

Citrus Processors/Businesses Capacity Improvement:

Based on the criteria, two companies (**Gift to Zest & Khalid Faizan**) which were involved in citrus fruit processing have been selected and MoUs

have been signed. Then, several meetings were arranged with the company owners to identify their needs, as a result; the following items were procured and distributed as per the company.

1. Khalid Faizan

- 1 Set of High Pressure Compressor

2. Gift to Zest

- 5 set of Grinders
- 5 Pcs of Storage Tanks

An exposure visit was conducted to 17 people including Gift to Zest, Khalid Faizna Food Processing Companies, Paghman DAIL staffs, ANHDO staff and Kabul technical staffs. The visit was hosted by Bushra Taranoom Food Processing Company in Paghman district of Kabul. The overall objective of the exposure visit was to exchange ideas, knowledge and experiences among the business to overcome the challenges and problems of production, marketing and sales and to create linkages between businesses and traders.

Further, Business to Growers (B2G) & Business to Business (B2B) meetings were conducted to a total of 27 people including Nangarhar citrus processing companies, citrus producers group, DAIL representatives, nursery grower associations, whole seller, middle men and retailers, the main objective of the meetings were to create linkages between producers and processors of citrus products and to exchange their knowledge and experiences with each other for better understanding of products volume and market demands. Additionally, a basic marketing training on packaging and branding was organized to Gift to Zest and Khalid Faizan companies, head of citrus association and representative of JAL – PAIL to improve participants' knowledge on marketing concepts and familiarity of national and regional markets needs for the specific packaging system.



B2G to Khalid Faizan processing company



Success Story

Before



After

Name: Abdul Qahir S/O Abdul Qadir

Age: 40

Village: bodialay

District: Kuz Kunar

Province: Nangarhar

“With drip irrigation you can irrigate your orchards efficiently compared to any other irrigation system”

Project Name and Objective:

Support Services for Efficient Production of Citrus in Nangarhar.

To ensure proper application of best operating and management practices in citrus orchards including assistance in identification of any disease/pest infecting citrus orchards and application of counter-measures and establishment of the necessary agricultural infrastructure e.g. drip irrigation for efficient citrus farming.

Activity:

Equip existing citrus orchards with drip irrigation

Issue:

As an arid and semi-arid country, irrigation is essential for food production - there can be no food security without water security. In recent years, the situation of irrigation water has been further aggravated by frequent droughts in many provinces, **including Nangarhar. Several districts of this province are affected by drought and in most cases there is no irrigation canal system, but recently most of those barren lands became cultivated by utilization of underground water as deep wells. The water is pumped with solar energy to the ground for irrigation.**

Most of the growers are badly using the underground water while they don't know the worst impact of this action. In most cases with one deep well they can only irrigate around 10 Jeribs of land in summer season.

In some areas the growers only have seasonal irrigation water, but they exactly face with shortage of water to do irrigation during the summer and autumn seasons.

Intervention:

Abdul Qahir is one of the citrus growers who have recently established a 7 Jeribs lemon orchard. Qahir has shifted his farming from wheat and vegetables to citrus (lemon) as the incomes from lemon is 5 times higher than wheat, maize and vegetables. His income was estimated about 30,000 AFN in a

year and now he can earn 150,000 AFN from citrus orchards.

Qahir has established the orchard but he was upset that how he will irrigate his orchard when the seasonal water is not there in summer months.

He and his family members were busy of irrigating 700 lemon trees every day with buckets through reservoir he constructed by his own self to store seasonal water.

He was not able to supply nutrients (fertilizers) to the trees, kept the orchard clean from weeds properly, because he and his family member were all busy in irrigating the trees manually. Thus, they didn't have enough time to perform other farming practices.

Luckily he has been selected as a beneficiary of drip irrigation by ANHDO under UNODC project. The project supported him in providing solar system, drip irrigation installation and IPM tool kits, furthermore, his capacities and skills has been built by providing technical trainings on orchard best practices. Now, he is able to irrigate his 700 trees with a push of a button normally and easily.

The story doesn't end up here; the other benefit of the drip irrigation system that he can supply nutrients (fertilizer) and pesticide to the trees using the fertigation system.

Coordination meetings:

Coordination meetings with Nangarhar DAIL relevant staff, UNODC east regional staff and district governors and relevant districts shuras have been conducted at the early stage of the project. During the project implementation, several meetings have been conducted with all project stakeholders, DAIL directorate and districts extension officers in order to provide them information about the project progress in the field.

To strengthening soya value chain and inclusion of soya bean to the agriculture crops (WFP)

Project Introduction and Beneficiary Selection:

The project kick off meeting has been arranged between ANHDO and WFP and talked over about the background of Soya Value Chain project by WFP. Then the project orientation session has been conducted to Parwan, Kapisa, Herat and Nangarhar project technical staffs in Kabul ANHDO office. During the session, the project objectives, budget, expected output, outcome and targeted beneficiaries have been oriented to participants. Furthermore, the project was introduced to the provincial DAILs, DoE, Directorate of Home Economy, SFAs and MAIL/ARIA by the project technical team for better coordination and collaboration.

In close coordination with WFP, provincial DAILs, extension departments, SFA members, village leaders and provincial Directorate of Home Economy staffs, a total of **1800 soya farmers (1300 Soy Farmers + 100 Seed Growers + 400 Village Women)** as actual project beneficiaries have been successfully selected.

Women Capacity Building:

The health benefits of soybean, soybean cultivation and home consumption of the soya food was conducted to the project female employees for their better understanding and knowledge and be able to transfer the same material to 400 women in the targeted provinces.



Soybean Food Culture Training in Herat

During the time, the project female employees in close coordination with provincial DAIL, Directorate of Home Economy and WFP, conducted capacity building training sessions on soy food culture to 400 village women. The main objectives of the trainings were to improve women skills and awareness about health benefits of soybean, home consumption of soy foods, cooking demonstration and benefits of protein and nutrition to women and children.



Soybean Food Culture Training in Kapisa



Soybean Food Culture Training in Nangarhar



Soybean Food Culture Training in Parwan

Input Distribution:

During the reporting period, **15.6MT** certified soybean seeds (**Gateway, Stine-3400, Dea-won and Hawang-Keum**), **20.8MT** DAP, **5.2MT** Urea fertilizers and required disease control measure (**Abamectine/500cc & Copper Oxy Chloride**) have been procured and successfully distributed to **1,300** soybean farmers of Parwan, Kapisa, Herat and Nangarhar provinces. Each distributed package contained 12kg certified soya seeds, 16kg DAP, 4kg Urea fertilizers, one bottle insecticide and 5 pockets fungicide as per farmer.

Also, **4MT** soybean grain (**Gateway, Stine-3400 and Hawang-Keum**) and **4MT** full fat soybean flour have been successfully distributed to **400** village women of Parwan, Kapisa, Herat and Nangarhar provinces. Each distributed package contained 10kg soybean grain and 10kg soybean flour as per village woman.



Input distribution event of Kapisa province



Input distribution event of Parwan province

In addition, **1.2MT** foundation seeds (**LD-04, Gateway, Stine and Hawan-Keum**), **1.6MT** DAP, **400kg** Urea and required disease control measure have been successfully distributed to **100** soybean seed producers of the companies in Prawn, Kapisa, Herat and Nangarhar provinces. The distributed package contained 12Kg foundation seeds, 16kg DAP, 4kg Urea, one bottle insecticide

(**Abamectine/500cc**) and 5 pockets fungicide (**Copper Oxy Chloride**) as per seed producer.

Support Soybean Farmers Association (SFA) & Soybean Seed Producer Companies Union SSPCU:

As per SFA requests, office tools and material have been procured and distributed to SFA offices in presences of DAIL and WFP representatives, the distributed tools and material can help the SFAs to manage and operate their daily administration performances in the offices. In the meantime, one day workshop (General Assembly) was organized for SSPCU in ANHDO office which a total of 17 people were participated (13 SSPCU board members, one WFP monitoring staff and 3 ANHDO staffs). During the workshop, evaluations of previous members, banking members, SSPCU founders' determination, SSPCU renewal license, reporting, planning and board election were the main agenda of the workshop.

during the time, ANHDO was able to procure four soybean threshers and have been successfully handed over to SFAs in the targeted provices. Now, the SFAs have new and considerabel threshers beig utilized during the harvesting soybean in the field. Also, many of the SFAs old machineries (Threshers, Seed Cleaners & Tractor) were repaired and handed over back to SFA offices.

Support Agriculture Research Institute of Afghanistan (ARIA):

During the time, ARIA team in close coordination with the project team was able to select 4 research stations in Kabul, Parwan, Herat and Nangarhar provinces. Moreover, the ARIA team has successfully cultivated the 14 soya experimental seed varieties within the targeted ARIA stations accordingly.

As per ARIA request, 16 necessary items (tools & equipment) have been procured and handed over to ARIA station farms. The tools and equipment were used by the ARIA labors and technical team on daily basis to accomplish the experimental soya seeds smoothly. Meanwhile, ANHDO was able to procure four soybean threshers and have been successfully handed over to ARIA in the targeted stations. Now, ARIA has got the new and considerabel threshers being utilized during the harvesting of 14 experimental soybean seeds in the field. During the time, 14 soybean varieties as per station grew with good condition. Recetnly, the ARIA team harvested 14 experimental soybean seeds successfully as per station.

Soybean Demostration Orchards:

During the reporting period, 20 soybean demo plots were established (5 demoes as per Province). After that, ANHDO has worked closely with demo plot owners who are the talented farmers and can promote and extend the soybean cultivation methods in future. In order to make the demo plot owners well-equipped and solid to carry out their daily activities, ANHDO provided some services like, land preparation, labor facilities and provided tools like, measure tape, shovel, tape, trowel and scythes as per the demo.

In addition, exchange visits have been organized on soybean demo plots in Parwan, Kapisa, Herat and Nangarhar provinces which a total of 99 people **(21 Parwan, 20 Herat, 36 Nangarhar & 22 Kapisa)** including ARIA staff, extension department staff, SFA, WFP representative and active soybean growers were participated, the main purpose of the visits to indicate the key standards of soybean cultivation methods, weeding control, pest and disease control and irrigation system to the soybean growers and other participants.



While harvesting experimental seeds by ARIA team



Exchange visit event in Parwan Province



While harvesting experimental seeds by ARIA team



Exchange visit event in Kapisa province



Exchange visit event in Nangarhar province



Exchange visit event in Herat province

Coordination Meetings with MAIL:

The project team has participated in Kapisa, Parwan, Nangarhar and Herat agriculture sectorial meetings and presented ANHDO/WFP project activities and performances. And had close coordination with SFAs, SSPCU, DAIL, Directorate of Home Economy, ARIA, Statistic Departments, SPCD and extension departments.

Project visibility

For better visibility action, the project team was able to design and print cloth bags with having donor visibilities for inputs packaging and distribution to the project beneficiaries. Also, a total of 12,000 brochures under the title of SOYBEAN CULTIVATION, SOYBEAN NUTRITION & SOYBEAN BEST VARIETIES have been printed and distributed to local farmers, village women, university students and government authorities. The brochures have been prepared and developed by Dari and Pashto languages in close coordination with Agriculture Research Institute of Afghanistan (ARIA) and Home Economy Department of MAIL.

ORGANIZATIONAL DEVELOPMENT DEPARTMENT



Organization Development (OD)

As part of ANHDO being committed to continuous learning and development of the organization, and commitment to organizational sustainability, the Organizational Development Department, during this year, planned, designed and conducted a great number of strategic change interventions to make the organization more effective.

The major activities of Organizational Development (OD) interventions included the system development, employees' training and development, and a number of other planned strategic interventions, which are listed as below:

- > Conducted Organizational Development Assessment (ODA)
- > Developed the departmental OD Action Plans (OAP).
- > Revised organizational policies and procedures, and developed new policies and procedures as per the ODA.
- > Assisted in the revision of ANHDO five-year strategic plan
- > Provided advice and technical support to other departments related to their OD interventions
- > Attended the Senior Management Team (SMT) meetings of the organization.
- > Initiated and implemented the idea of "Digital Library" in ANHDO.
- > Contributed in generating innovative ideas to improve the organization office.
- > Contributed in the development of some new strategies for the organization including, the Fundraising Strategy.
- > Shared advice and thoughts related to the organization sustainability

Meanwhile, the Organizational Development (OD) department designed, developed and conducted a number of need-based training programs, in coordination with the HR department, in order to develop the capacity of staff members so that they remain updated and perform more effectively towards achieving the organizational goal and objectives. These training programs are listed as below:

- > General Management
- > Talent Management
- > Report Writing
- > Effective Presentation Skills
- > And, interview Skills



Talent Management Training for HR Staff Members



Report Writing Training Session for ANHDO Staff Members



Effective Presentation Skills Training for Nangarhar Staff



Management Training for ANHDO Staff Members



HR Management Training



Effective Interview Skills Training for ANHDO Staff Members



Interview Skill Training

HUMAN RESOURCE DEPARTMENT



The year 2020 was considered a year of technology and system change and development for the Human Resources (HR) Department of Afghanistan National Horticulture Development Organization (ANHDO).

The Human Resources Policies and Procedures were revised for 2020 in order to respond to the organizational human resources management needs, and comply with rules and regulations.

Employee Handbook

The Employee Handbook was developed and shared with all ANHDO staff member both in Kabul and provinces so that employees understand the most important HR policies, procedures and expected performance behavior of employees, and to safeguard the organization legally.

Meanwhile, this policy will help an employee to understand the standardization of personnel and benefit policies, preventing misunderstandings, complaints, and job dissatisfaction out of a misinterpretation of personnel and benefit policies.



An image of ANHDO Employee Handbook

Capacity Building

The paradigm of change is very wide and fast. We know that, as non-profit NGO, we have to continuously invest on our staff training and development process so that we move ahead at the same pace with the rapid change so that we survive and can continue our service delivery to our target farmers, orchard owners, agri-businesses and other beneficiaries.

Hence, the Human Resource Department, with the technical assistance and collaboration from the Organizational Development (OD), identified and conducted the bellow training programs to develop the capacity of staff members.

Talent management Training and talent strategy:

To enhance the knowledge, skills and abilities of ANHDO HR staff in the field of talent management, the Organizational Development (OD) department has conducted talent management training to HR staff. As a result of this training, the HR staff were enabled to develop the talent management strategy for ANHDO, which should lead to the improvement of talent management process in ANHDO.



Talent Management Training for ANHDO Staff Members

Management Training

Management training can be considered a very important and a major investment for many organizations including, ANHDO.

In order to enhance the skills of managers and enable them to engage and effectively motivate their subordinates, the HR department, with the technical assistance from Organizational Development (OD) department, conducted Management training, which will create a more involved and committed workforce, resulting in higher quality results, often in less time.



Management Training for ANHDO Staff Members

Report writing Training

Hence, the Human Resource Department, with the technical assistance and collaboration from the Organizational Development (OD), identified and conducted the bellow training programs to develop the capacity of staff members.



Report Writing Training for ANHDO Staff Members

Monitoring & Evaluation Training

Monitoring and Evaluation (M&E) training is very important for ANHDO employees, in order to assess the projects to achieve set targets. So, the HR department, with the technical support of the M&E department, has conducted M&E training for the JAA team to easily understand whether strategic changes need to be made and act accordingly.



M&E Training for ANHDO Staff Members

Employee Skills Inventory

In order to record and identify the high-potentials of the organization in terms of human capital, the HR department has developed the Employee Skills Inventory.

HRIS System

An HRIS helps companies organize and manage people-related data including: Employee demographic information like birth date, gender, contact information, and more. So HR department is following the bellow system since 2019.

a view of ANHDO HRIS system

1- Development of a comprehensive Training Database

Implementation of Timesheet Management System

ANHDO Staff Online Timesheet

Administration Policy

The last, but not the least, the major achievement of this year, has been the development of Administration Policy. This policy has helped us create an effective support system for implementation of projects/program in Afghanistan National Horticulture Development Organization (ANHDO).



Training Materials for ANHDO Staff Members

Employee Database

ANHDO Staff Members database with personal details

GENDER DEPARTMENT

INTERNATIONAL MENS DAY

November



The Gender Department of Afghanistan National Horticulture Development Organization (ANHDO) worked in close collaboration and coordination with other departments to mainstream and promote gender in the organization.

The Gender Department, with technical assistance from the Organizational Development (OD) department, prepared its annual OD action plan, and implemented as well. As a result, a significant change was introduced in this department so that the department could perform more effectively and efficiently.

The Gender Department also prepared a Gender Annual Action Plan for all departments setting specific goal and objectives to achieve related to their gender activities.

In terms of gender related statistics, the department collected gender related data, analyzed them, prepared charts and reported to top management for information and decision-making. This analysis helped the top management to understand the current situation of Gender in the organization, and to take necessary actions for improvement.

In order to promote the awareness of staff members related to Gender, the department conducted regular orientation sessions for all staff members, and disseminated the Gender Booklet, and Gender-publications on quarterly basis to all staff members.

The Gender meetings were held and organized by the Gender Department on Quarterly-basis in the organization. The reports of such meetings were shared with relevant members in the organization including, the top management.



the ANHDO Gender Officer while discussion of the issues

Afghan Agriculture Women Group (AAWG):

The Gender Department also worked closely with the Afghan Agriculture Women Group (AAWG) to promote their networking and capacity during this year. Therefore; a number of capacity building sessions including, the "Food Processing Training Session" was also organized for the above-mentioned group.



the AAWG members making apple jam

MONITORING & EVALUATION DEPARTMENT



During this year, the Monitoring and Evaluation Department of Afghanistan National Horticulture Development Organization (ANHDO) conducted the monitoring and evaluation of activities of different projects at different locations in Afghanistan in order to ensure the projects were on track, achieving the expected goal and objectives, and that the expected results were achieved

Meanwhile, the Monitoring and Evaluation (M&E) Department also worked on M&E system development in order to improve the performance of this department. This activity has been conducted in coordination with and technical support from the Organizational Development Department.

In addition to that, the M&E Department contributed significantly in design and development of new projects, especially the new projects log frames and M&E plans, with the Fundraising Department. With the technical assistance from the Organizational Development and HR Departments, and its donor (WHH), this department was also enabled to develop the capacity of monitoring and evaluation staff members in the field of M&E and MEAL.

Ensuring the high quality implementation is an important part of ANHDO mandate; the M&E department has been playing a significant role in this regard.



Monitoring outcome of drip irrigation project



Interviewing 1183-AFG chicken coop project beneficiaries



Field Visit of 1183-AFG project

The background of the entire page is a vibrant red color. Overlaid on this are several white film strips. One film strip runs horizontally across the middle of the page, framing the title. Two other film strips are positioned diagonally, one in the upper left and one in the lower right, creating a sense of depth and movement. The film strips have a classic perforated edge.

Photo Gallery



Citrus best varieties identification by ANHDO



Deputy of MAIL visiting ANHDO booth



Citrus Saplings Production through Plastic Bags under the Net House



AFG-1183 A view of Provincial Trip of Local Seeds Producers 12-06-2020 (3)



AFG-1183 a view of Tomato paste processing training to woman Group Leader and woman Group Member in Kuz Landa B17-9-2020



AFG-1183 image from Kitchen Gardening Management Training



AAWG food processing Training



IMP Round Table Training in Balkh



Exposure Visit to Food Processing Companies



Citrus orchards with Drip irrigation technology



Drip irrigation system in Lemon orchard



Drip irrigation system in Lemon orchard



While ANHDO Took Part in Ag-Fair



IPM Practical Training to Almond Orchard Growers



During the Ag-Fair



ANHDO Beneficiaries Product Visit by the visitors in Ag-Fair



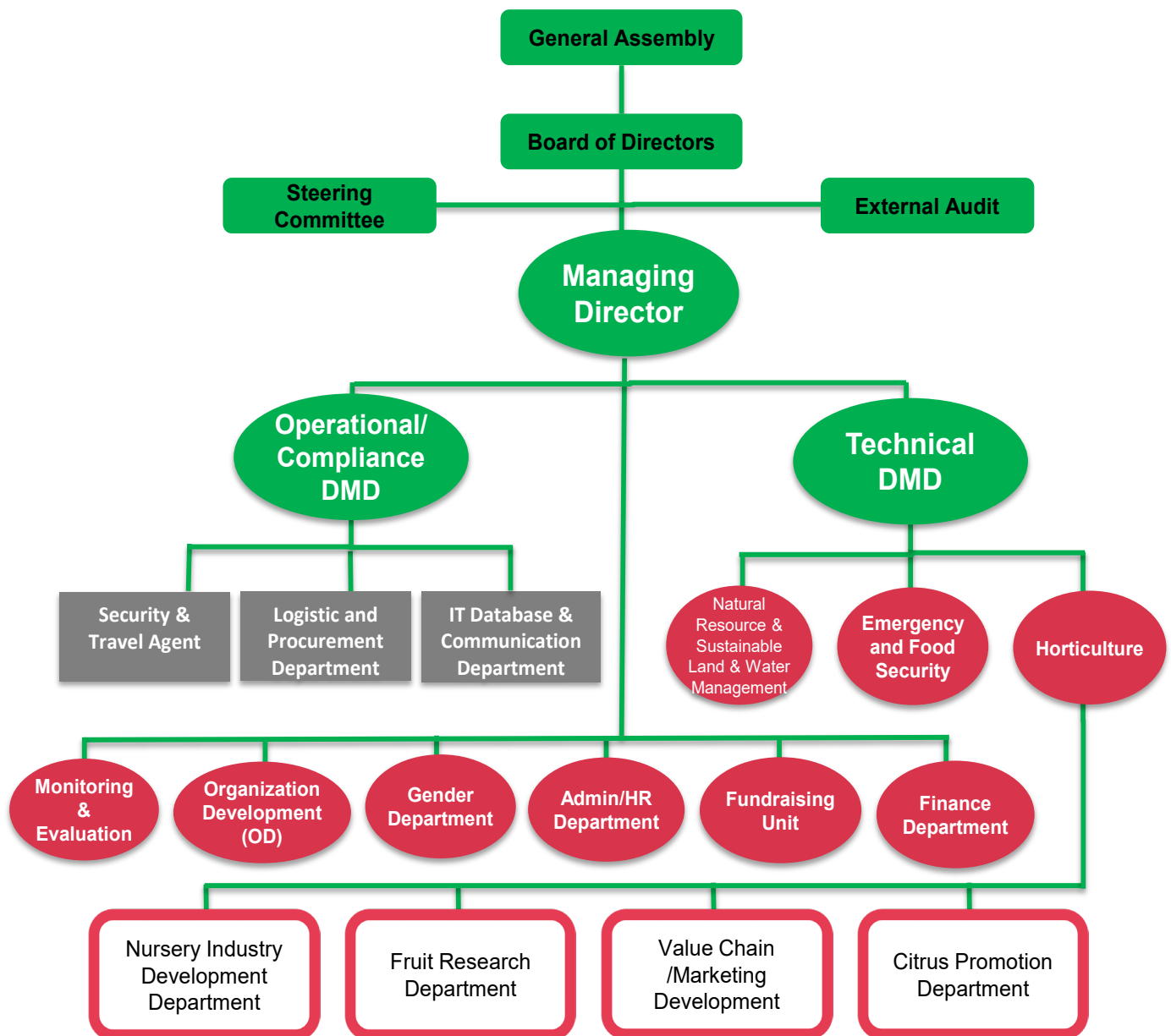
Providing Technical Information to the visitors during the Ag-Fair 1



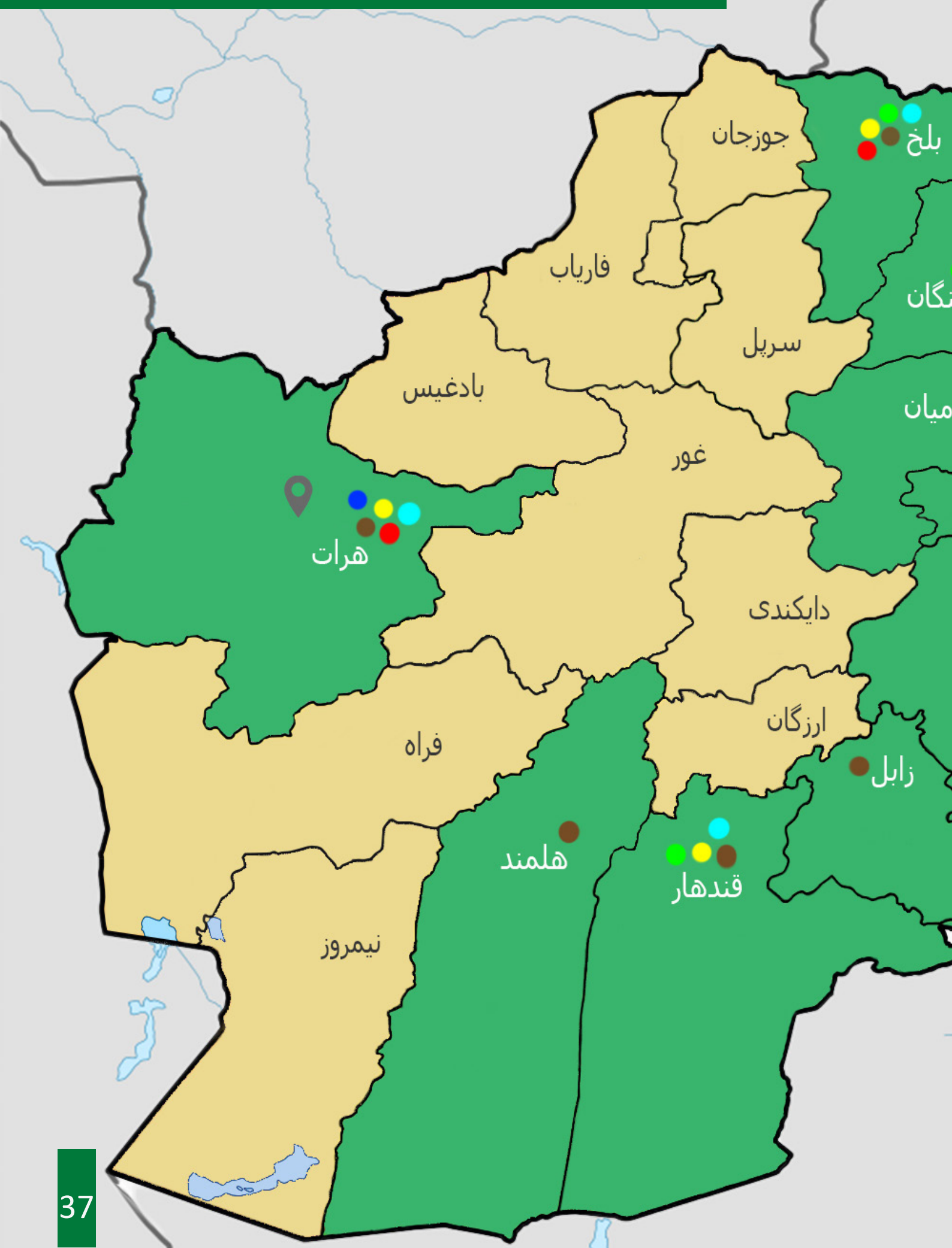
Nursery Management Training to Nangarhar University Students

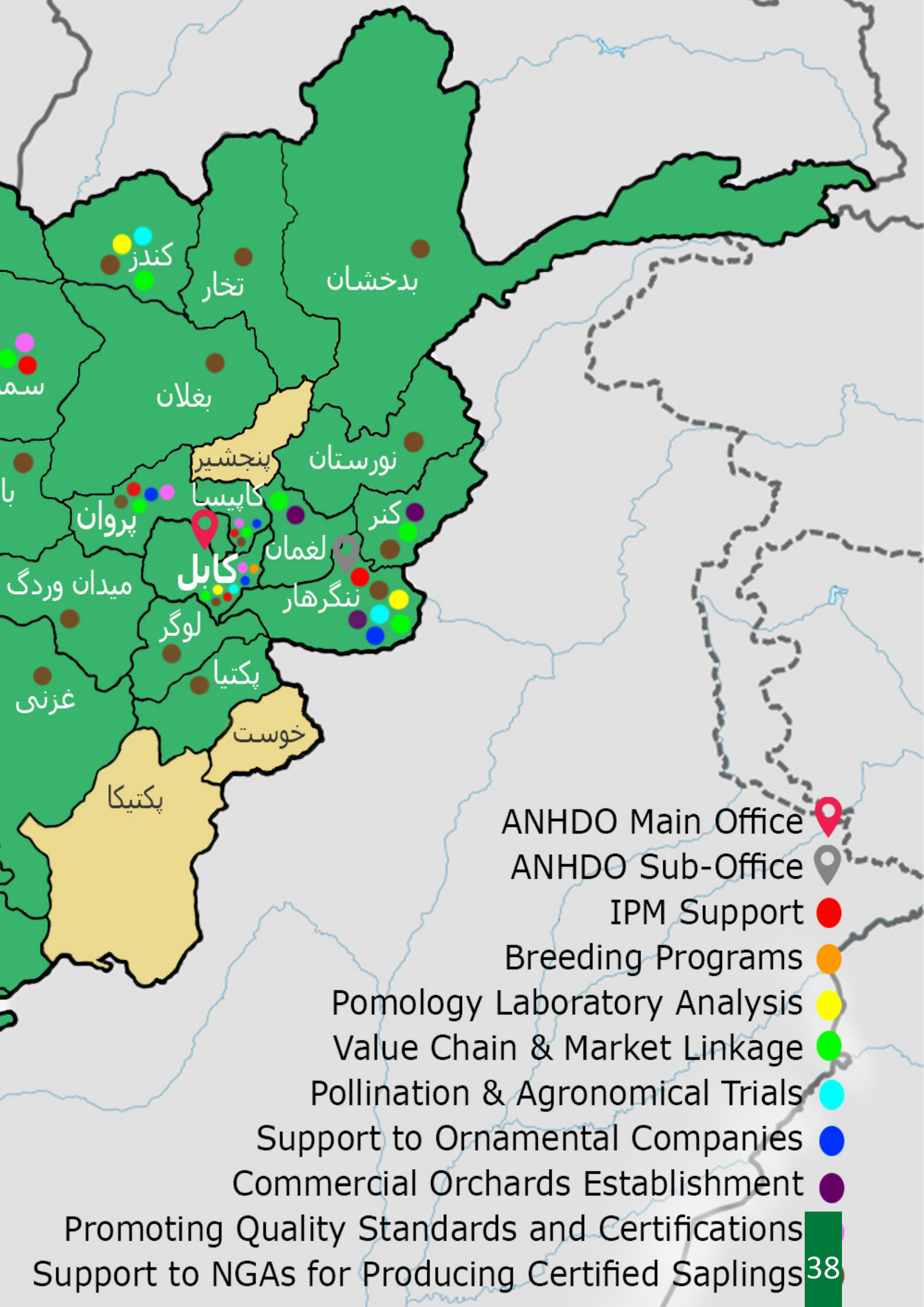
ANNEXES

Annex-1 Organizational Chart



Annex-2 ANHDO Geographic Coverage Map





Annex-3 ANHDO Program Diagram





Thank You!
For reading our report

▶ ANHDO

f ANHDO

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