Curriculum Vitae

Name: Taher Sadek El Azzabi

Nationality: Libyan

Date of Birth: 20 August 1948

Place of Birth: Kikla Libya

Email Address: taherazzabi@gmail.com

Tel. 0020 1003449055

Qualifications:

BSc. Biology - University of Tripoli - Libya (1973)

MSc. Biodeterioration of Materials - University of

Portsmouth - U.K. (1977)

Ph.D. Plant Protection (Plant Pathology) -

Southampton University – U.K. (1982)

Languages:

Arabic: Mother tongue

English: Excellent

Greek: Fair

French: Slight

Employment: Starting with the most recent;

- 1. Free lancer consultant in areas of projects management , Pesticide management and Phytosanitary (2011 Now)
- 2. Senior Regional Plant Protection Officer for the Near East Region, FAO Regional Office for the Near East. (2004 2010).

During this period of employment my duties and responsibilities were:

As free lancer consultant: (2011 – Now) the following activities were carried out;

- Participated in the first high level meeting for the Establishment of the Near East Plant Protection Organization (NEPPO) as meeting organizer, speaker, and meeting facilitator Rabat Morocco 22 25 October 2010.
- Participated in the 30th Regional FAO Conference for the Near East Region ,
 Khartoum, Sudan 4- 6 December 2010 (presented a discussion paper)
- \bullet Participated in the Regional workshop for the establishment of the Near East Plant Protection Network , Rabat Morocco 10 14 November 2011 , as main organizer and facilitator
- Prepared the Libya Pesticides Executive Regulations February (2012)-Libyan Ministry of Agriculture - Tripoli
- Participated in the Libyan Delegation to the Arab Organization (AOAD) for Agricultural Development , Muscat , Oman 4 – 8 April 2012
- Prepared the Libyan Plant Quarantine Executive Regulations March (2012)
 Libyan Ministry of Agriculture Tripoli
- Conducted a National workshop on Pesticides Management in Libya and Future Challenges – Libyan General Environmental Authority Tripoli 5- 6 March 2013
- Prepared a discussion paper on the requirements for the establishment of Pests and diseases Early warning system in the Near East Region - April 2012
- Assigned as a Programme Advisor for Libya FAO cooperation programme UTF /LIB/047/LIB 1st October - 30th December 2012
- Formulated a Regional TCP proposal document on the Management of *Tuta* absoluta in the Near East Region , March 2012
- Formulated a Regional TCP proposal on the Management of Red Palm Weevil in the Near East Region , July 2012 .
- Organized one day seminar of the Wheat Black Stem Rust (economic importance , surveillance and Identification) Agricultural Research Center , Tripoli , Libya 17 November 2012 .
- Organized and supervised the training workshop on the formulation of agricultural development projects for the senior technical officers in the Libyan ministry of agriculture 12 – 24 April 2014 Tripoli Libya

<u>As Senior Regional Plant Protection Officer for the Near East my duties and responsibilities were :</u>

- Advise FAO member countries in the Near East Region in identification, design, operation and evaluation of programmes on plant protection, IPM, plant quarantine, migratory pests, pesticides and weed management.
- Support the relevant international conventions, codes and agreements such as (IPPC, Rotterdam Convention, International Pesticides Code of Conduct of the Distribution and Use of Pesticides among member countries).

- With special focus on pesticide management and IPM; Plan, organize, lead and participate In training programmes, programme development missions, survey missions, task forces studies, workshops and seminars on plant protection, pesticide management and pest control technologies.
- Provide strategies orientation; develop methodologies and issues guidelines on plant protection issues of particular interests to the region such as pesticide management, IPM and phytosanitary.
- Provide technical support and project backstopping services to FAO Representatives, project managers, and field experts assigned to the region in plant protection.
- Maintain lesion with plant protection, pesticide management, plant quarantine and other relevant organizations and with national and regional administrative research and training institutions involved in plant protection including pesticide management in the region.
- Maintain lesion with the Global IPM Facility and collaborate closely with activities undertaken at policy levels in the field
- Assemble, analyze and distribute information , review plant protection programmes including pesticide management and prepare documents for technical and administrative meetings and see that such information is adequately transferred to FAO member countries in the Near East Region while exchange relevant information with plant protection officers at FAO Headquarters and at Regional Offices .
- Ensure access to information and data relevant to the region through computer information technologies and provide relevant data.
- Promote and strengthen the implementation of the International Code of Conduct on the Distribution and Use of Pesticides

3. <u>Director General of the Agricultural Research Center</u> - <u>Ministry of Agriculture Libya (2000 – 2002)</u>.

During this period of employment my duties and responsibilities were:

- Supervise and lead the Agricultural Research in Libya administratively and technically
- In collaboration with the concerned departments in the Research Center and on the light of the country's agricultural development plan; prepare the agricultural research priorities.
- Through the concerned technical departments prepare the five years agricultural research plan and the yearly amendments of the plan if required .

- In collaboration with the concerned departments in the Ministry of Agriculture and Ministry of Planning, discuss the budget required for the implementation of the proposed agricultural research plan.
- Plan and supervise the local and international collaboration between the Research Center and its counterparts in Libya and abroad such as ICARDA, FAO, IFAD, ACSAD, MAIB, AOAD, Agricultural Research Centers in Egypt, Tunisia, Algeria and The National Research Centers such as (Nuclear Research Center, Industrial Research Center, Desert Research Center and Biotechnology Research Center).
- On the light of the national agricultural development plan and the Center's approved plan, suggest and follow up the implementation of the agricultural research projects in all priority field including plant protection and pesticide management.
- Lead the plant protection collaboration research programmes between the Center and INRA in Tunisia in areas of IPM and economic insect pests Such as Apple stem borers (*Zeuzera payrina* and Med Fly .
- 4. <u>Director of International and Technical Cooperation Bureau Minister of Agriculture Libya (1998 1999).</u>

During this period of employment my duties and responsibilities were:

- Based on the country's agricultural development plant, suggest to the ministry of agriculture the outlines of agricultural cooperation on the national, regional and international levels Facilitate.
- Lead and advise the international cooperation process between the Ministry of Agriculture and other Ministries of Agriculture abroad, also the collaboration between The ministry of Agriculture in Libya related institutions and its counterparts abroad such as the regional organizations and centers; ICARDA, AOAD, ACSAD and international organizations and centers such as FAO, IFAD
- Follow up on the financial contribution of the Libyan Ministry of Agriculture in the related regional and international organizations and centers.
- Represent the technical cooperation part in the Joint high level ministerial meetings between the Libyan Ministry of Agriculture and other related ministries and institutions (bilaterally and internationally)

5. Positions held during the period 1983 – 1997:

<u>Director of Research Directorate – Libya Agricultural Research Center – Tripoli</u> 1989 – 1992);

My duties and responsibilities were:

 Direct and follow up on the agricultural research activities carried out within the frame work of the agricultural research plan in collaboration with the research team leaders and concerned technical departments evaluate the research results and suggest improvements and report that to the Center's Director general and board of directors

<u>Director of technical Collaboration Directorate - Libyan Agricultural Research</u> Center (1993 – 1998).

My duties and responsibilities were;

- Create and strengthening cooperation ties in agricultural research between local institutions and universities, Agricultural Research Center and its counter parts particularly the Agricultural Research Centers in the Near East Countries and Africa and Regional and international centers.

National Director of UTF LIB/006/LIB Strengthening of Libyan Agricultural Research Center – Tripoli (2000 – 2003)

- This UTF project was intended to support the research activities carried out in the Research Center through providing technical, expertise and training.

Researcher in Plant Protection - Libyan Agricultural Research Center - Tripoli (1983-2003)

- In addition to my supervision and administrative responsibilities in the research center, I actively participated in the research activities and projects particularly in areas of cereal pests and diseases.

<u>Leader of the Cereal diseases research team – Agricultural Research Center – Tripoli</u> (1995 – 2003)

 During this period, I led the research activities in areas of plant pathology (cereal diseases) in close collaboration with the field crops improvement programme involved in improvement of wheat and barley varieties particularly the breading programme for development of resistant cereal varieties tolerant to drought and heat stress, also I was involved in screening of fungicides used against cereal diseases.

Member of ICARDA programme in Libya regarding improvement of wheat and Barly improvement 1983 - 1999.

- My responsibilities in this programme was to screen and evaluate the germplam lines of wheat and barley during the selection process regarding its resistant to the prevailing diseases in the area.

Part time lecturer in the University of Al Jabal Al Gharbi (Faculty of Sciences) 1995 – 1997) in areas of ;

- Plant Pathology
- General Botany

Committees and authorities chaired and Membership:

- Head of the Libyan Side in the Libyan Egyptian joint authority for Agricultural Research (1994 – 1997).
- Head of the Libyan side of the Magrib Union Authority for Research and Extension (1992 – 1996)
- Member of the external examiners Committee MAIB for IPM post graduate students 2006, 2008 (representing FAO)
- Head of national committee assigned for the preparation of the Libyan pesticides executive regulation (2012).
- Head of the committee assigned for the preparation of the Libyan pesticides executive regulation (2012).

<u>Pesticide management and IPM Activities(meetings , workshops and training sessions):</u>

- Organization and participation in the Near East Consultation on the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade (Cairo, Egypt 29 May – 1 June 2005).
- Organization of one day follow up seminar on the progress made of the Egyptian workplan on Rotterdam Convention Implementation, (Cairo, Egypt, 26 July 2006).
- Organization and participation of the GCC Sub-Regional Consultation on the Implementation of Rotterdam Convention (Muscat, Oman, 19-25 May 2006).
- Conducting national follow up seminar on the implementation of Rotterdam Convention in UAE Dubai 18 – 19 October 2009
- Prepared the GCC Pesticide Law Executive Regulations
- Organization in collaboration with Rotterdam Convention Secretariat; sub regional workshop for the Gulf cooperation council (GCC) on the implementation of the Convention, May 2006.

- Organization of one day seminar on the follow-up on the progress made of the Saudi workplan on the implementation of Rotterdam Convention, (Riyadh, Saudi Arabia, September 2006).
- Organization in collaboration with Rotterdam Convention Secretariat; Sub-Regional Workshop for the number of RNE countries (Syria, Lebanon, Yemen, Sudan and Iraq) on the implementation of the Convention, Damascus, November 2006.
- Organization of a Follow-Up Seminar on Rotterdam Convention Implementation in Syria (Damascus, Syria, 22-23 November 2007).
- Organization of a Subregional Consultation of DNAs under the Rotterdam Convention (Cairo, Egypt, 9–13 December 2007).
- Organization and conduction of a National TOT on Safe Use of Pesticides (Sana'a, Yemen, 29/12/2007 – 6/1/2008).
- Publication of Guidelines on Efficacy Evaluation for the Registration of Plant Protection Products (Arabic version)..
- Printing of the proceedings of Regional Workshop for the Implementation of the International Code of Conduct on the Distribution and Use of Pesticides in the Near East Region (Damascus, Syria, 6-9 December 2004).
- Organization in collaboration with CIHEAM the Citrus Tristeza Virus (CTV) and Toxoptera citricida (Tc) meeting in Cairo, 22 September 2005.
- Participation in the IPM UTF project for the Near East Region as a regional Plant protection officer for the Near East Region .
- Organization and participation in collaboration with CIHEAM the working group meeting on CTV and *Toxoptera citricida* control in the Mediterranean Region, Adana, Turkey 20–23 Feb. 2006.
- IPM regional project meeting Hamamat Tunisia December 2009
- Lead technical Officer of the IPM UTF project (first phase 2006 210)
 Saudi Arabia
- First Global Environmental Facility (GEF) Project Steering Committee Meeting, EMRO, Cairo, Egypt, 14 16 February 2005.
- First International Workshop of the Global Rust Initiative Alexandria Egypt , 9 – 11 October 2006
- Fruit flies Data Base in collaboration with the Egyptian Agricultural Research Center 2006
- Second meeting of the steering committee of the WHO/UNEP project in the Eastern Mediterranean region supported by the Global Environmental Facility (GEF) Damascus, Syria 11-12 November 2006.
- Organized and participated in the Regional Weed Pest Risk Management -AlBayda Libya 22- 25 March 2009.
- Organized and participated in the Regional training workshop on PCE in collaboration with the IPPC secretariat - Alexandria - Egypt 8 - 11 June 2009
- Conducted and participated in the regional consultation on the draft ISPMs
 Cairo Egypt 22- 29 July 2009
- Participated in all ICPM (Interim Commission for Phytosanitary Measures) and CPM (Commission for Phytosanitary Measures) meetings 2004 – 2010 FAO Headquarters Rome Italy

- Participated in the tripartite review meeting of the IPM project for the Near East Region 14 – 15 June 2009 Cairo - Egypt
- Participated in the first stakeholders workshop on the project on reducing risks on wheat stem rusts ICARDA 21- 22 April 2009.
- Participated in ALWAC meetings (2005 Sana'a Yemen), (2007 Cairo Egypt),
 (2010 Khartoum , Sudan)
- Participated in the Saudi Ministry of Agriculture national workshop on "pesticides in Agriculture in Saudi Arabia 23 June 2009. presented two papers
- participated in the FAO Libya collaboration mission 17 20 August 2009
 Tripoli Libya
- Participating in the 10th Arab Congress for Plant Protection Lebanon 27 30
 October- Beirut Lebanon
- Conducted a field survey on Wheat Stem rust in Saudi Arabia. The result shown that the country is free from this rust race.
- Participated in the meeting on IFAD project on Ug 99 Aleppo
- Conducted the Regional consultation on the draft ISPMs Cairo 24- 27 July .
- National follow up seminar on the implementation of Rotterdam Convention in Sudan Khartoum 14 – 17 April 2008
- National Follow up seminar on the implementation of Rotterdam Convention
 Oman May 2008
- Participated as team member of the Arab League team on Environmental agreements meetings April, September 2008
- In collaboration with the RNE information management officer Develop Near East pesticide management and use network as an integrated part of the Near East Rural Agricultural & knowledge and information network (NERAKIN)
- Participated in the Arab SAICM coordination unit meeting Arab League September 20008.
- Backstopping mission as lead technical Officer for TCPs and UTFs projects going on in Saudi Arabia, Yemen, Syria, Jordan and Lebanon
- International Conference; Wheat Stem Rust Ug99; A Threat to food Security,
 New Delhi, India November 6 8, 2008
- Reducing of risks of wheat rusts threatening livelihood of resource-poor farmers through monitoring and early warning" ICARDA HQ Aleppo, Syria 21 -22 April 2009
- Represented FAO in the Arab League team of Environmental protection (pesticide issues) Arab League Headquarters 2009 – 2010
- Expert Meeting on Pesticide Management, 26 28 October 2004 FAO Headquarter Rome Italy 26-28 October 2004 FAO Headquarters.
- Participated in the GAP regional meeting on Methyl Bromide Alternatives in Various Sectors (Cairo, Egypt 9 – 12 December 2007)

- Organization and conduction of National TOT on Safe Use of Pesticides in Yemen (Sana'a, Yemen, 29 /12 / 2007 - 6/1/2008
- Organization and participation in the subregional Training Workshop ISPMs
 15 (wood packaging material) Alexandria, Egypt 24 27 March 2008.
- Organization and participation in the Regional Technical consultation on draft International Standards for Phytosanitary Measures (Cairo, Egypt 4 – 7 September 2004).
- Organization and participation in the Regional Workshop on the Implementation of the International Code of Conduct on the Distribution and Use of Pesticides in the Near East Region (Damascus, Syria, 3 9 December 2004).
- Participated in the training and awareness workshop for the regional plant protection officers of FAO and UNEP and directors of Coordination Centers of the Basel Convention on technical assistance for the implementation of the Rotterdam Convention - Bangkok, Thailand 18- 22 October 2004
- Participated in the FAO/CIHEAM/IAM meeting on Toxoptera citricidus Faro Portugal 8 – 9 April 2005.
- Participated in the Scientific Conference on Current Situation of Plant Protection in Yemen and Future Strategy - Sana'a Yemen 9 – 11 May 2005
- Represented FAO in the IAM/Bari IPM course final exam. Bari Italy 26 30 June 2005.
- Organized the Near East consultation on the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in the Internationals Trade Cairo Egypt 29 May 1 June 2005
- Participated in the Regional FAO plant protection officers' workshop on capacity building in support for the work programme of the IPPC and the FAO Technical Cooperation programme. Bangkok Thailand 14 – 24 November 2005.
- Participated in the FAO and UNEP Regional Officers Consultation on Technical Assistance for the Rotterdam Convention Hua Hin Thailand November 27 – 30 2005.
- Organization Subregional training workshop on Pest Risk Analysis (PRA).
 Alexandria, Egypt 26 29 March 2006.
- Organized the GCC Subregional consultation on the implementation of the Rotterdam Convention Muscat Oman 19 – 25 May 2006.
- Organized in collaboration with the MAI/Bari and the Turkish plant protection authorities the working group meeting on *Toxoptera Citricida* and CTV control in the Mediterranean Region Adana Turkey 7 – 11 June 2006
- Organization of a Regional consultation on the Review of the Draft International Phytosanaitry Measures (ISPMs) Cairo Egypt 22 -26 July 2007.
- Organization of a follow up seminar on the Rotterdam Convention implementation in Syria Damascus 22 – 23 November 2007
- Organization of a subregional consultation of DNAs under the Rotterdam Convention Cairo Egypt 9 – 13 December 2007

- Organization and conduction of a national training for pesticides dealers and traders on the pesticides management and distribution Sana'a 29/12/2007 – 6/1/2008.
- Participated in the wheat stem rust race (Ug99) Baseline Survey workshop Aleppo, Syria 10 – 11 March 2008.
- Organization a subregional training workshop on ISPM15 (wood packaging material) Alexandria 24- 27 March 2008
- Organization of the national follow up seminar on the implementation of Rotterdam convention in Sudan Khartoum 14 – 15 October 2008
- Organization of the Regional consultation on the Draft International Phytosanitary Standards Cairo 21 23 July 2008.
- Conducting a Wheat Stem Rust Survey in Saudi Arabia from 16 19 April, 2008.
- Organization of the National follow up seminar on the implementation of Rotterdam Convention in Muscat, Oman from 22 – 25 June, 2008.
- Organization of the Regional Workshop for the Review of draft International Standards for Phytosanitary Measures (ISPMs) held in Cairo, Egypt from 21 – 23 July, 2008.
- Organization of the national follow up seminar on the implementation of Rotterdam Convention held in Beirut Lebanon on 21- 22 October 2008.
- Participated in the AGP consultation Rome 17 19 Feb. 2009
- Participated in the Rotterdam Convention consultation Rome 22- 25
 Feb.2009
- Participating in the 10th Arab plant Protection Conference Beirut Lebanon 27

 30 October 2009.

UTFs and TCPs projects formulated:

- UTF IPM project "Strengthening National capacities of Integrated pest Management in Qatar
- Finalization the Regional TCP project documents "Management of the invasive plant *Solanum eleaeagnifolium* in Syria , Iraq, Lebanon and Jordan" in collaboration with the FAOR Syria .
- UTF project document "Strengthen Plant Quarantine Capabilities in Qatar"
- Revised and finalized a project document "Strengthen of National Plant Quarantine Capabilities in Kuwait"
- Prepared a short UTF project proposal for training of the Qatari Quarantine Plant Protection Inspectors.
- UTF project Pesticide management Libya in collaboration with FAO AGP
- UTF IPM project Libya in collaboration with FAO AGP
- UTF Regional project for the control of Citrus Tristeza Virus (CTV) and its vector *Toxoptera citricida* in the Mediterranean Region (This proposal was prepared jointly with NAIB – Italy , Regional FAO office Cairo and the FAO sub regional FAO office Tunisia) (2007)
- TCP Red Palm Weevil Near East Region (FAO office Cairo 2011)
- TCP Tuta Absoluta Near East Region (FAO office Cairo 2011)

Project profile insect pests inventory Sana'a Yemen - 2009

<u>UTFs</u> and TCPs projects backstopped and technically supervised and Cooperation programmes managed:

- TCP; Management of invasive Plant *Solanum elaeagnifolium* in the Near East Region (Iraq, Syria, Lebanon and Jordan)
- UTF; Saudi Arabia IPM , UTF/SAU/025/SAU/ " Capacity Building in Integrated Plant Health Management"
- TCP; Provided technical backstopping under the TCP Strengthening of phytosanitary capabilities in Yemen /YEM/3005
- UTF; Libya FAO cooperation programm UTF/LIB/047/LIB Programme Advisor ^{1st} October 2012 30th December 2012
- UTF project; IMP in the Near East Region GTFS/REM/070/ITA

Some of important publications;

During my work, I published more than 80 Scientific papers, proceedings, technical reports, guidelines and books. In this CV I mentioned mostly that publications I think they are related to pesticide management and IPM. I focused mainly on that published during my assignment with FAO as Senior Regional Plant Protection Officer for the Near East Region.

Scientific Papers:

- Taher El Azzabi; Libolytic Activity of Fungi on Rapeseed oil, Journal of Food, Since and Agriculture 1987
- ❖ Taher El Azzabi; Desertification "Major problem of Africa Towards the 21st Century, First Desertification Conference, Sebha, Libya 5 8 January 1991.
- ❖ Taher EL Azzabi et al . Cereal rust survey in Libya , Libyan Journal of Agricultural Research Vol. 5 1996
- ❖ Taher Elazzabi , Fig trees diseases in Libya , Libyan Journal of Agricultural Research vol. 6 1997
- ❖ Taher Elazzabi , Massoud Gajem . Economic losses of Powdery Mildew and Rust diseases on the main Barley crops in Libya , Libyan Journal Of Agricultural Research Vol. 6 1997
- ❖ Taher Elazzabi ; Transboundary Plant Pest and Diseases in the Near East Region with emphasis on Wheat Stem Rust (Ug99). FAO , Rabat , Morocco 2010
- ❖ Taher ElAzzabi ; Implementation of Pesticides Code of Conduct on the Distribution and Use of Pesticides in the Near East Region - 10th Arab Plant Protection Congress Beirut Lebanon 2009

- ❖ Taher Elazzabi; Plant Protection and Plant Quarantine Systems in the Near East to Enhance Plant Health and Food Safety and Promote Agricultural Exports . Fourth ALAWUC fourth session 7 – 9 March 2006 Sanna Yemen
- ❖ Taher Elazzabi; "Role of IPM Policies in Promoting Crop Quality Improvement in the Near East Region". Near East FAO Conference (Sana'a, Yemen, 12–16 March 2006).
- ❖ Taher Elazzabi; Information note " " Pesticides Management in the Near East Region ' NERC 29 Cairo 1- 5 March 2008

Books, Guidelines and Proceedings:

- ❖ Taher Elazzabi Principles of Plant Pathology Translation from English into Arabic (Libyan Authority for Scientific Research 1988) Author; J.G. Manners (1980)
- Taher Elazzabi, Guidelines for pesticide and pesticide products traders in the Near East Region- FAO Regional Office for The Near East. first Edition 2006, Second Edition 2012
- ❖ Taher Elazzabi , TOT for pesticides dealers and traders in the Near East Region . FAO Regional Office for The Near East . first Edition 2006 , Second Edition 2012
- ❖ Taher ElAzzabi, Guidelines on Efficacy Guidelines for the Registration of Plant Protection Products (Translation into Arabic) FAO Regional Office for the Near East Region Cairo – Egypt
- ❖ Member of the Editorial board of the Arab and Near East Plant Protection Newsletter (ANEPPNEL). (2004 – 2010.).
- Prepared the proceedings of Regional Workshop for the Implementation of the International Code of Conduct on the Distribution and Use of Pesticides in the Near East Region (Damascus, Syria, 6-9 December 2004).
- Taher El Azzabi ,Translation into Arabic the "Manual on Development and Use of FAO/WHO Specifications for Pesticides "(2006)
- Prepared the AGPP information note "Role of IPM Policies in Promoting Crop quality Improvement in the Near East Region" Near East FAO Conference Sana'a Yemen 12 16 March 2006.
- ❖ Information note " " Pesticides Management in the Near East Region ' NERC 29 Cairo 1- 5 March 2008
- Guidelines for monitoring and evaluation of the International Code of conduct on the Use and Distribution of Pesticides (translated Arabic version in press) 2009

Professional training courses:

- UTFs and TCPs preparation training courses , FAO Regional Office for the Near East - Cairo 2006 and 2007
- Logical Framework preparation course FAO Regional Office for the Near East
 Cairo 2008

❖ FAO Priority settings procedures , June 2007 Cairo

Experience in the Agricultural Sector in Libya:

My work with the Agricultural Sector in Libya for more than 20 years , has given me great deal of experience and knowledge of this sector; its achievements, problems, needs, changing priorities and how the sector can achieve its goals particularly in areas of plant protection particularly in Agricultural research management, pesticide management, IPM and Phytosanitary.