



Trade Capacity Building for Ghana

US GHA 06 005

Starting date: March 2007

Duration: 5 years

ITU Regional Seminar for Africa Region on Conformance and Interoperability Testing Centre(s)

4 July 2011



Trade Capacity Building for Ghana

Objectives of the project:

- 1) **Strengthening the capabilities of GSB** to enable them to
 - a. Develop and **publish adequate standards**
 - b. Provide **training** on priority standards,
 - c. Develop the **management certification system capability (ISO 9000, ISO22000)**
- 2) **Establishment of a national traceability system for horticultural products (GEPC)**
- 3) **Upgrading and accreditation against ISO 17025 of testing laboratories**, (chemical, microbiological, pesticide residues and textile)
- 4) **Upgrading of PPRSD to become the nominated EU Competent Authority in the field of horticulture.**





Key developments

- Project actively started in March 2007
- Mid term evaluation carried out in June 2009.
- A non-cost extension was granted until Dec 2010.
- Project redefined its outputs to current context Oct 2009.



Areas of intervention and institutions

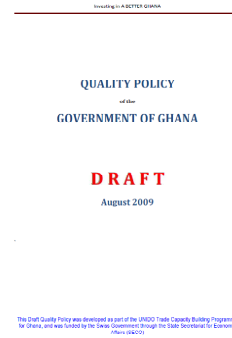
1. GSB Development Plan (GSB)
2. Certification Body (GSB)
3. Standard Setting (GSB)
4. National Traceability System (GEPC)
5. Competent Authority (PPRSD)
6. Laboratory Upgrade (GSB,PPRSD,FDB)



Output 1.1 Assisting GSB in its restructuring process (GSB)

Key Activities conducted:

- Vision and mission established*
 - SWOT analysis conducted*
 - Training and development of top GSB management conducted - certification workshop
 - Strategy developed*
 - Business/Sustainability plan developed*
 - Analysis and proposal of NQI strategy
 - NQI workshop conducted
 - National Quality Policy draft developed
 - High level implementation draft for NQI under preparation
- *Activities funded by GOG



Progress 0%  100%



Output 1.2 Strengthening GSB standard setting process (GSB)

Key Activities conducted:

- Priority sectors identified
- SPS mapping for main exports conducted
- Training at Trade Policy Training Centre in Arusha, Tanzania
- GSB staff participated in ISO e-learning course*
- GSB staff participated in TBT seminar training
- 21 Standards published*
- Technical Committees established (Cowpea, Herbal Drugs, Fresh Yam, Food Safety and Food Manufacturing , Inspection Manual for Yam, Adoption of IPPC Manuals) to develop 30 new standards
- Inspection manuals developed for each standard

*Activities funded by GOG



Output 1.2 Strengthening GSB standard setting process (GSB)

Next Steps (in progress):

- To hold awareness seminars
- To develop pictorial version for standard
- To conduct workshop for dissemination
- To gazette new standards

Under the Regional Programme (WAQP):

Workshops have been held to develop and harmonize standards



Output 1.3 Development of GSB capability to disseminate voluntary standards and to train SMEs (GSB)



ISO National Workshop On Conformity Assessment Infrastructure Supporting Trade, day 1: plenary session



ISO National Workshop On Conformity Assessment Infrastructure Supporting Trade, Group 2

Key Activities conducted:

- Trainings prepared in coordination with GSB:
 - ISO National Workshop on conformity assessment held (Group 1: Laboratories, Group 2: Certification & Inspection)
 - Training and awareness on GLOBALGAP benchmarking processes
 - Training on food safety standards
 - Training on quality and hygiene, in particular ISO 22000 (HACCP) and ISO 9000
 - A pool of national consultants trained on ISO 22000 and prepared to act as UNIDO consultants
 - Training of consultants on ISO 9001



Training on food safety standards



Output 1.3 Development of GSB capability to disseminate voluntary standards and to train SMEs (GSB)

Key Activities conducted:

- Assistance to pilot enterprises by trained national consultants and international expert
 - Selection & initial assessment of enterprises to be assisted to achieve ISO 22000 and HACCP certification conducted
 - Work plan developed to implement standards requirement to enterprises
 - Road map for implementation for ISO 22000 and ISO 9000 for selected enterprises



Training of consultants in ISO 22000



Outcome 1. Results observed

- GSB has restructured its organization to be a customer focused organization*
- GoG has drafted its 1st Quality Policy and is working to develop/establish it in the near future
- Trained GSB staff contribute to the appropriate development, dissemination and implementation of standards
- GSB follows best international practice in their standard setting process activities



Output 2.1 Establishment of National Traceability System (GEPC)

Key Activities conducted:

- Main export and challenges identified
- Exporter' s database established (GEPC)
- Study tour for GEPC staff to the European conference on traceability
- National Traceability Committee set up
- Study Tour to the ETRACE facilities in Cairo, Egypt conducted - for members of national traceability committee
- Assessment of national traceability strategy, initiatives and current applications at enterprise level conducted (ETRACE UNIDO expert)
- Road map for national traceability system developed
- Training of trainers on traceability conducted, 3 day course
- Traceability manual for trainers and enterprises developed
- Traceability system for pilot enterprise applications identified



Training of trainers on traceability



Awareness seminar to stakeholders on traceability



Output 2.1 Establishment of National Traceability System (GEPC)

Key Activities conducted:

- implementation strategy followed up
- support given for the development of IT system of national traceability, required equipment purchased
- national consultants on selected traceability system trained (in cooperation with COLEACP Programme)
- pilot enterprise staff trained
- traceability system in 65 pilot enterprises implemented





Outcome 2. Results observed

- Functioning National Traceability Committee with representation from government and industry
- National Traceability strategy accepted and ongoing
- GEPC staff is capable of developing/providing sector specific training on traceability
- GEPC is capable of implementing traceability system at enterprise level



Output 3.1 Development of organizational structure within GSB to form Ghana Certification Body

Key Activities conducted:

- Study Tour to South African Standards Board
- Assessment of current status of GSB
- The scope for system certification identified (ISO 22000 + ISO 9000)
- Work plan to set up a certification body developed
- Establish CB as a unit of the current quality assurance division (governance structure)
- Draft documentation required for accreditation developed
- Manager of GCB appointed and Logo adopted
- Certification Committee established
- Impartiality Committee established

Progress 0%  100%



Output 3.2 Development of technical and managerial capacity for GCB



Key Activities conducted:

- Study Tour to South African Certification Body conducted
- Work plan for system certification capability established
- GSB staff trained on ISO 17021
- Quality Management System and structure set in place
- ISO 22000 Lead Auditor course conducted
- ISO 9000 Lead Auditor course conducted



Output 3.2 Development of technical and managerial capacity for GCB

Next Steps:

- To provide initial assessments and audits to pilot enterprises
- To assist and certify enterprises on ISO 22000 and ISO 9000
- To initiate pilot certifications
- To run complete cycles of certification activities for preparation for accreditation audit
- To prepare records and evidence of accreditation audit against ISO 17021





Outcome 3. Results observed

- GSB staff has the knowledge to run a certification body.
- Ghana Certification Body in place and working towards accreditation against ISO 17021
- Local lead auditors ready to assist GCB in certification of enterprises in ISO 22000 and ISO 9000
- GCB has successfully completed full cycles of certification activities.



Output 4.1 **Laboratory Upgrade (GSB,PPRSD,FDB)**

Key elements for Laboratory accreditation:

- 1. Infrastructure** (building, environmental conditioning)
- 2. Equipment** (Hardware, CRM, consumables, all ready to use)
- 3. Human capital** (training and development)
- 4. Documentation** and literature (QMS, Procedures, manuals)
- 5. Practical Experience**
- 6. Proficiency Tests**
- 7. Accreditation** process (initial assessment, final audit, accreditation)



4.1 Laboratory Upgrade (FDB)

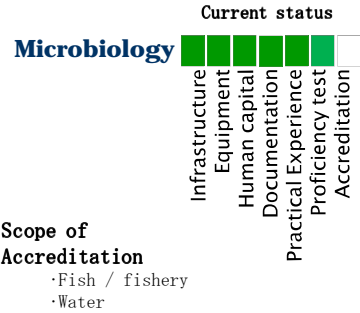
Key Activities conducted

- Gap analysis conducted
- Study tour to Sri Lanka conducted
- 2 Training seminars related to the ISO/IEC 17025 standard conducted
- Training session related to ISO/IEC 17025:2005 standard about internal auditing conducted
- Equipment installed
- Human capacity of lab evaluated
- Quality manuals developed
- Practical experience and internal audits established
- Proficiency testing conducted

Next Step:

- To finalize quality manual
- To conduct blank audit

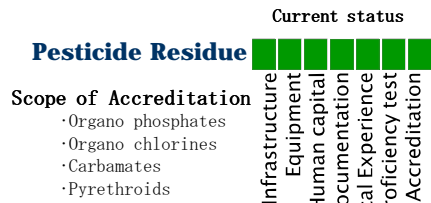
Accreditation to be postponed until FDB lab moves to new facility



4.2 Laboratory Upgrade (GSB)

- Lab accredited in October 2009 by DACH

40% increase in Tests after Accreditation





4.3 Laboratory Upgrade (GSB)

■ Lab accredited by DACH in October 2009

40% increase in Tests after Accreditation

Microbiology



Scope of Accreditation:

- Fish/fisheries
- Fruits and Beverages
- Cereals

Current status



- Infrastructure
- Equipment
- Human capital
- Documentation
- Practical Experience
- Proficiency test
- Accreditation



4.4 Laboratory Upgrade (GSB)

Key Activities conducted

- Gap analysis conducted
- 2 Training seminars related to the ISO/IEC 17025 standard conducted
- Training session related to ISO/IEC 17025:2005 standard about internal auditing conducted
- Human capacity of lab evaluated
- Equipment installed
- On-the-job training provided
- Quality and technical manuals developed partially
- Key additional equipment delivered and installed (HPLC)

Next Steps:

- Documentation being reviewed by international expert
- To organize proficiency testing
- To conduct blank audit

Scope of Accreditation:

- Mycotoxin (aflatoxin & ochratoxin)
- ❖ Maize
- ❖ Cocoa
- Sudan dyes
- ❖ Palm oil

Current status

Chemical



- Infrastructure
- Equipment
- Human capital
- Documentation
- Practical Experience
- Proficiency test
- Accreditation



Estimated date of accreditation: Sep 2011



4.5 Laboratory Upgrade (GSB)

Textile Current status



Key Activities conducted

- Gap and needs assessment conducted
- Seminar related to quality assurance in textile testing and ISO/IEC 17025:2005 standard, tailored specific to the Ghanaian textile exports
- Training session related to ISO/IEC 17025:2005 standard about internal auditing conducted
- Premises reviewed and modifications completed to fit with requirements
- Equipment identified and ordered
- Human capacity evaluated
- Documentation developed partially
- Equipment installed and staff trained on use of equipment

Next Steps:

- To organize practical experience
- To organize Proficiency Testing
- To conduct blank audit

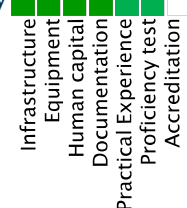
Scope of Tests

- Fiber composition
- Wash resistance
- Tensile strength
- Abrasion resistance



4.6 Laboratory Upgrade (PPRSD)

Microbiology Current status
Seed Testing Lab

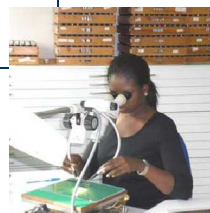


Key Activities conducted

- Gap analysis conducted
- Study Tour to Kenya conducted
- ISTA membership obtained
- Training to the Danish Plant Directorate
- Training session related to ISO/IEC 17025:2005 standard about internal auditing conducted
- Premises reviewed, civil work and the revamping are completed
- On site practical training on germination conducted
- Equipment installed
- Technical manual completed
- Quality manual yet to be completed
- Proficiency test conducted

Scope of Accreditation

- Seeds, grains and fruits (Sampling, Purity, Moisture,



Training to the Danish Plant Directorate, Denmark

Estimated date of accreditation: Dec 2011



4.6 Laboratory Upgrade (PPRSD)

Next Steps:

- To install additional identified equipment
- To conduct additional training on sampling
- To conduct blank audit
- Accreditation by ISTA (Dec 2011)



4.7 Laboratory Upgrade (WAQP)

Under the regional programme, following are being established:

- Nigeria, Sierra Leone, Liberia, Guinea, Gambia, Cape Verde, Mauritania:
 - ❖ Microbiological Testing Lab
 - ❖ Chemical Testing Lab
- These labs are at various stages of development and are expected to be accredited against ISO 17025 before the end of year



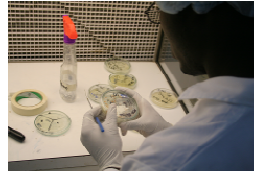
4.8 Laboratory Upgrade (GSB)

Labs accredited by DKD in October 2008**

200% increase in Calibration after Accreditation

****Lab Accreditation funded and supported by PTB of Germany**

Metrology



Measured Quantities:

- Mass
- Pressure
- Temperature

Current status



- Infrastructure
- Equipment
- Human capital
- Documentation
- Practical Experience
- Proficiency test
- Accreditation



4.9 Laboratory Upgrade (GSB)

Labs to be accredited in 2012**

****Lab Accreditation to be supported by WAQP**

Metrology



Measured Quantities:

- Density
- Viscosity
- Dimensional Metrology

Current status



- Infrastructure
- Equipment
- Human capital
- Documentation
- Practical Experience
- Proficiency test
- Accreditation





4.9 Laboratory Upgrade (WAQP)

■ Metrology labs are being established in:

- Sierra Leone
- Guinea
- Liberia
- Gambia

■ Labs to be accredited in 2012**

Metrology



Measured Quantities:

- Temperature
- Mass

Current status

Infrastructure	Equipment	Human capital	Documentation	Practical Experience	Proficiency test	Accreditation
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Laboratory Upgrade (Ghana Summary)

	Current status	Date of obtained accreditation	Estimated date of accreditation
Pesticide Residue	<div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div>	Oct 2009	
Microbiology	<div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div>	Oct 2009	
Chemical	<div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: yellow;"></div> <div style="width: 20px; height: 10px; background-color: white;"></div> <div style="width: 20px; height: 10px; background-color: white;"></div>	GSB	Sep 2011
Textile	<div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: white;"></div> <div style="width: 20px; height: 10px; background-color: black;"></div>		
Microbiology	<div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: white;"></div> <div style="width: 20px; height: 10px; background-color: white;"></div>	FDB	TBD
Microbiology	<div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: green;"></div> <div style="width: 20px; height: 10px; background-color: white;"></div> <div style="width: 20px; height: 10px; background-color: white;"></div>	PPRSD	Dec 2011

Infrastructure
Equipment
Human capital
Documentation
Practical Exp
Proficiency test
Accreditation



Outcome 4. Results observed

- Test result from accredited laboratory has been made using the same quality standards of any other accredited laboratory world-wide.
- Supported laboratories have proficient testing methods that are accurate, reliable and accepted internationally.
- Accredited laboratories can now demonstrate global recognition of their competence, impartiality and capability.



Output 5.1 **Upgrading of Competent Authority (PPRSD)**

Key Activities conducted

- Gap and needs assessment conducted
- Study Tour to CA in Kenya and South Africa conducted
- Awareness and training seminar on the structure and role of an EU CA conducted
- Practical training provided on the application of joint inspections on selected products (mango, pineapple, papaya and banana) in quality, SPS and food safety (incl. HACCP and traceability)
- Road map for strengthening of capacities of the CA developed
- Train inspectors from different regions on quality and phytosanitary national standards
- Train inspectors on marketing quality standards in Slovakia



Output 5.1 Upgrading of Competent Authority (PPRSD)

Next Steps:

- To adapt legal regulations related to inspection of fruits and vegetables prior to export by a CA
- To conduct pilot inspection on priority products to enterprises
- To develop required documentation
- To amend organizational structure



Outcome 5. Results observed

- PPRSd inspectors qualified on SPS standards, marketing standards and inspection techniques for priority products
- PPRSd staff qualified to train other inspectors and industry on inspection and marketing standards
- Draft legislation in line with EU requirements



Thank you for your attention