



USAID | DELIVER PROJECT

FROM THE AMERICAN PEOPLE

Task Order 3 (Malaria):

FY2010 Semi-Annual Report

October 2009 – March 2010



MAY 2010

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USAID
FROM THE AMERICAN PEOPLE

PRESIDENT'S MALARIA INITIATIVE



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Abstract

This semi-annual report documents the activities of Task Order 3 (Malaria) during the first six months of FY2010 (October 1, 2009–March 31, 2010). Key sections highlight the major activities under each objective—the accomplishments, the implementation issues and proposed solutions, and the key performance objectives for the next reporting period.

Cover photo: Community members in Madagascar receive long-lasting insecticide-treated bednets during a PMI-supported universal coverage distribution campaign (USAID | DELIVER PROJECT).

USAID | DELIVER PROJECT

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Acronyms

ACT	Artemisinin-based Combination Therapy
AS/AQ	Artesunate Amodiaquine
CA	Collaborating Agencies
CCB	Change Control Board
CDC	Centers for Disease Control and Prevention
cGMP	Current Good Manufacturing Practices
CHAI	Clinton HIV/AIDS Initiative
CPIR	Commodity Procurement Information Request
DHO	District Health Offices
EOI	Expressions of Interest
EQA	External Quality Assurance
ENRI	Ethiopian Health and Nutrition Research Institute
FIND	Foundation for Innovative Diagnostics
GFATM	The Global Fund to Fight AIDS, Tuberculosis and Malaria
IDA	International Dispensary Association
ILS	Integrated Logistics System
IQC	Indefinite Quantity Contract
IRS	Indoor Residual Spraying
IT	Information Technology
JSI	John Snow, Inc.
LMIS	Logistics Management Information System
LN	Long-Lasting Insecticide Treated Bed Net
LOE	Level of Effort
MSD	Medical Stores Department
MIS	Management Information System
MMV	Medicines for Malaria Venture
MOH	Ministry of Health
MOP	Malaria Operational Plan
MSH	Management Sciences for Health
NIR	Near-infrared

NMCP	National Malaria Control Program
OAA	Office of Acquisition and Assistance
PDA	Personal Digital Assistant
PMI	President's Malaria Initiative
PMP	Performance Monitoring Plan
POD	Proof of Delivery
PPMRm	Procurement Planning and Monitoring Report for malaria
PSB-Singapore	Singapore Productivity and Standards Board
PSM WG	Procurement and Supply Chain Management Working Group
PSU	Pharmaceutical Supply Unit
QA	Quality Assurance
QASP	Quality Assurance Surveillance Plan
RBM	Roll Back Malaria
RDT	Rapid Diagnostic Test
RFP	Request for Proposal
RFQ	Request for Quote
SKU	Stock-Keeping Unit
SOP	Standard Operating Procedure
SOW	Scope of Work
SP	Sulphadoxine Pyrimethamine
SPS	Strengthening Pharmaceutical Systems Project
STTA	Short-Term Technical Assistance
TO	Task Order
TOM	Task Order Malaria
UNICEF	United Nations Children's Fund
UPS	United Parcel Service
USAID	United States Agency for International Development
USAID/W	United States Agency for International Development Washington Office
USG	United States Government
USP	United States Pharmacopeia
WHO	World Health Organization
WHO-WPRO	World Health Organization-Western Pacific Regional Office

Executive Summary

This semi-annual report covers the period from October 1, 2009 to March 31, 2010, and describes the activities of Task Order 3 (TO3), one of three task orders under the USAID | DELIVER PROJECT Indefinite Quantity Contract with John Snow, Inc. TO3 is part of the United States Government's effort to fight malaria in sub-Saharan Africa through the President's Malaria Initiative (PMI). The initiative works in 15 African countries and is led by the United States Agency for International Development. TO3 has long-term presence in eight of the PMI "focus" countries, and in three USAID malaria countries.

TO3 has three main objectives, under which all its activities are organized: (1) to improve and expand USAID's provision of malaria commodities to country programs, (2) to strengthen in-country supply systems and their capacity for managing malaria commodities, and (3) to improve global supply and the availability of malaria commodities. The level of effort varies across the objectives: 50–60 percent for Objective 1, 30–40 percent for Objective 2, and 5–7 percent for Objective 3. To achieve these objectives TO3 works in partnership with PATH, Crown Agents Consultancy, Inc., Abt Associates, Fuel Logistics Group (Pty) Ltd., UPS Supply Chain Solutions, Family Health International, The Manoff Group, 3i Infotech, Center for International Health and Development (Boston University School of Public Health), and U.S. Pharmacoepia (USP).

Improve and Expand the Provision of Malaria Commodities to Country Programs

From October 2009-March 2010, TO3 continued to increase its procurement activities by providing US \$54,740,574 worth of malaria commodities to 18 African countries; including, \$37,382,647 for long-lasting insecticide-treated bednets (LNs) (68.3% of the total), \$14,580,881 for pharmaceuticals (26.6%), \$2,082,955 for Rapid Diagnostic Test kits (3.8%), and \$694,091 for lab equipment (1.3%). During the six month reporting period, TO3 procured 86 percent of the value of malaria commodities which were procured in the entire preceding fiscal year, continuing the trend of almost doubling the amount procured every six months. Included in procurement figures for this reporting period are emergency orders from five countries.

After monitoring system performance levels last year, we raised the target performance levels from 70% to 80% or higher. Over the last six months, the project met all of its procurement performance indicators even at this higher target level, achieving 80 percent or higher for each. The ongoing freight rate analysis demonstrated that TO3 continued to get competitive freight rates.

TO3 continued to implement its rigorous quality assurance polices, including concurrent physical and chemical testing of LNs, lot testing of RDTs at World Health Organization (WHO)-qualified labs, batch testing of pharmaceuticals, and near infrared (NIR) scanning by the Centers for Disease Control and Prevention (CDC).

The Management Information System (MIS) continued to support the operations of the Supply Operations Team and provide access to up-to-date information on orders, shipments and account status for registered users.

Strengthen In-country Supply Systems and Capacity for Managing Malaria Commodities

An important part of TO3's work is to help strengthen and sustain local systems that are working with malaria commodities; through Objective 1 activities, creating and supporting the procurement and delivery of commodities; and, with other key malaria partners, reaching those in need. The project added two new countries to its portfolio—Burkina Faso and Burundi, increasing the number of countries where it has a long-term presence to 11.

Some examples of achievements from the reporting period include—

- In Angola, the project supported the implementation of an alternative distribution plan that uses private sector entities to deliver directly to the provinces. This included coordinating the delivery by charter aircraft, temporary storage by PSI and provincial distribution by UPS of 1.7 million treatments of ACTs. All products were received into provincial MOH depots within two weeks of arrival of the charter aircraft.
- In Madagascar, the project assessed the feasibility of conducting a LN recycling pilot in collaboration with the National Coordination Committee for LN campaigns (CNC), Ministry of the Environment, WHO/ SAICM Project, PSI, and the Mission, in conjunction with the upcoming LN distribution campaign planned for September 2010.
- In Mozambique, the project continued to support CMAM by packing 22,165 AL kits at the Maputo central warehouse, and transporting them to the provinces. This amounts to 3,616,086 treatments and transportation to 6 provinces in December 2009 and to 8 provinces in February/March 2010.
- In Nigeria, the project facilitated the distribution of 17,951,410 LNs in twelve states, in support of the NMCP LN distribution campaign. It also conducted a facility based survey on malaria supply chain performance and ACT and other malaria medicine availability. The results informed the design of a national malaria logistics system.
- In Zambia, the project demonstrated that supply chain improvements can significantly increase the availability of ACTs, RDTs and other malaria medicines through its essential medicines logistic system pilot. Availability of pediatric ACTs increased from 51 percent in the control facilities to 88 percent in the pilot facilities that used the district as a cross-dock facility. Availability of adult ACTs also increased to over 90 percent availability from around 50 percent in the control districts.

TO3 also developed and deployed several tools and approaches to improve local capacity to manage and monitor malaria commodities.

- The project customized the EpiSurveyor software and piloted its use in Tanzania and Zambia, in conjunction with the End Use Verification exercise. The End Use Verification exercise continued quarterly in Ghana, Tanzania and Zambia and the results were used to immediately address stock imbalances, design strategies to address system performance issues, and by the NMCP's to monitor and report on facility level stock status.
- Conducted two quarters of reporting on the PPMRm. This report provides central-level stock status for PMI-focus countries, including months of stock available and planned shipments by supplier/ funding source. The report summarized and highlights, from the country-level data,

countries that are currently stocked out, understocked or overstocked. It also recommends ways to address critical stock issues. During the first quarter FY2010, and with the support of SPS, 12 countries reported and 12 reported during the second quarter.

Improve Global Supply and Availability of Malaria Commodities

The project participated in the Roll Back Malaria (RBM) Procurement and Supply Management (PSM) working group meeting in January 2010. The meeting covered the following topics: development of a global forecast for ACTs by Clinton Health Access Initiative (CHAI) and MIT Zaragoza, LN scale up to reach 2010 targets, Global Fund Voluntary Pooled Procurement (VPP) country examples and challenges faced, Good Procurement Practices (GPP) for RDTs and ACTs, update on Affordable Medicines for malaria (AMFm), and existing initiatives for tracking commodities using new technologies. The meeting included one day focused on ACT scale up, during which the project shared several existing tools for increasing visibility of malaria commodities at the central and the facility level.

The project contributed to the Procurement and Supply Management of LNs Workshop, facilitating a session and providing materials. The workshop was a forum for GF Principal Recipients and malaria program managers to discuss LN procurement and supply chain management bottlenecks, brainstorm possible solutions and share country implementation experiences. Discussion sessions included GF and PMI funding methodologies, WHO guidance on LNs, technical specifications, quality assurance, routine and campaign distribution, and measuring the impact of LNs.

At the Alliance for Malaria Prevention annual meeting, the project, in collaboration with WHO presented “LN Pull-back, Recycling and Disposal.” This presentation focused on raising awareness to the fact that in five years, 100 million used LNs will need to be disposed of in Africa.

Description of Activities

Objective I: Improve and Expand USAID's Provision of Malaria Commodities to Country Programs

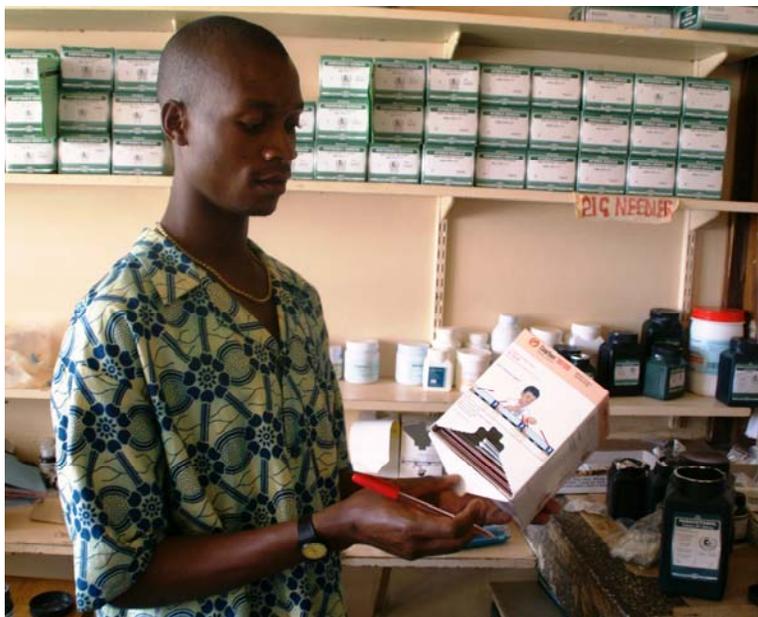
Procurement

A principal activity of TO3 is to support the PMI by procuring malaria commodities in response to requests placed by USAID Missions; the requests are based on the needs outlined in the yearly Malaria Operational Plans (MOPs). In the first six months of FY2010, we processed requests for procurement assistance from Angola, Benin, Burkina Faso, Burundi, the Democratic Republic of the Congo (DRC), Ethiopia, Ghana, Kenya, Liberia, Madagascar, Malawi, Mali, Mozambique, Nigeria, Rwanda, Senegal, Tanzania, and Zambia.

Review and Refine Procurement Systems and Procedures

To officially place an order, TO3 must receive a Commodity Procurement Information Request (CPIR) form, which is included in the procurement guide and can also be accessed on the website. The CPIR contains the relevant information needed to initiate an order, including product specifications, requested delivery dates, consignee information, etc.

There are now seven CPIR forms in use, each designed to cover a specific commodity or commodity group, and these also accommodate new or revised product presentations, i.e. the Coartem Dispersible. We are increasingly assisting our clients in-country with the completion of these forms and providing guidance in terms of roles and responsibilities for in-country commodity funded activities. The forms are therefore "live" documents which can, and are, being completed to reflect the bespoke nature of our procurement business model with PMI, which enables us to respond with flexibility and speed.



A Zambian health worker checks the expiration date on a package of Coartem (USAID|DELIVER PROJECT).

Product Fact Sheets

To help facilitate logistics planning and the proper management of malaria commodities, TO3 also created product fact sheets that list drug formulations, shelf life, storage requirements, and packaging specifications. As with the other tools developed by TO3, the fact sheets will be published

on the USAID | DELIVER PROJECT website and will be available to field offices, Missions, and USAID-supported partners. See Appendix A for the complete document.

Prepare Procurement Plans and Execute Procurement Requests

During the first six months of FY2010, we received 36 procurement requests from 18 countries. Orders were placed for a total value of \$54.74 million. This amount is already close to the total amount procured in FY2009 of \$63.71 million, demonstrating the ability of the project to rapidly scale up procurement activities in response to increased PMI demand.

Sources and Suppliers of Commodities

The selection of a vendor/manufacturer is based on one or more of the following criteria, in response to the Request for Quotes (RFQ):

- overall responsiveness
- conformance to product specifications
- conformance to quality certifications and standards
- conformance to packing and marking requirements
- product price
- timeliness of deliveries
- quality of product
- product registration in-country.

Only vendors and manufacturers that pass internal requirements (good manufacturing practices [GMP]), product stability data, previous supply record, etc.), and are included on the PMI pre-selected list, are invited to bid or quote.

Procurement Scorecard and PMP Indicators

During FY2010 the project has continued to monitor system performance on a monthly basis using the scorecard to show results. Given the high level of system performance last year, we raised the target levels this year from 70% to 80% or higher (green), from 50% to 65% (yellow) and from 50% to 64% or lower (red). For the results to date (October 2009 through February 2010), the on time shipment rate is 94%, with only two shipments recorded as late, one of which was late due to the complexities of the testing methodology which caused a delay. For supplier performance, we recorded one order, part of which was delivered late from a supplier, and three direct drop orders from suppliers that shipped late. The median number of days from receipt of the completed CPIR to contract signing was 36 days for FY2010, compared to 55 days in FY2009, demonstrating an extremely good turnaround time.

Table 1. PMP for the Procurement Process, October 1, 2009–March 31, 2010

Support Area	Operational Area	Indicator	Status
Direct Procurement Services	Monthly system scorecard implemented	Monthly scorecard available	Completed (data 10/08–2/09); on-going
	Procurement adhering to USG guidelines and requirements	% of subcontracts requiring OAA approval that receive OAA approval	100%
	Orders shipped and received on time (data 10/08–2/09)	% of orders available for shipping within 10 working days of contracted date with vendors	88%
		% of orders received by countries within a month of agreed date with the Mission	94%
	Suppliers deliver ordered commodities to satisfy contractual requirements	Supplier fill rate (contracted quantity on time) (data 10/09–2/10)	97%
		Median number of days required to contract one commodity from completed CPIR to contract signing	36 days

The overall indicator results continue to be very high, with only the supplier performance indicator for one supplier below target. This result is in spite of the increased level of procurement activity in FY2010. The project will continue to compile and report on monthly scorecard results and provide summaries in the semi- and annual reports.

Shipment Cost Analysis

In order to ensure that the USAID | DELIVER PROJECT is providing the best-value freight forwarding service to Task Order 3, we undertook a price reasonableness study to compare the rates charged for shipments under the Task Order with rates from other forwarders. Per agreement with project Task Order team for Malaria, we have conducted the freight reasonableness study for one shipment per month in those months where there is a malaria shipment conducted by UPS.

At the time of the shipment, UPS provides the origin/destination pair, shipment weight/volume and mode. Our Logistics Supervisor reviews the UPS rates and gathers additional spot rates from Fuel Logistics Group (Pty) Ltd. for the comparison. Rate comparison for shipments made by suppliers has been reviewed as part of the procurement process; those shipments are not included in this study.

The FY2010 analysis-to-date covered four shipments/routings where UPS had provided the freight services. For three out of the four shipments, UPS was competitive. In two cases, the UPS rate per kilo was the lowest of the three quotes. For one shipment, UPS had the highest rate, although the

difference with the quote provided by Fuel Logistics Group was of only USD 0.26 per kilo, given the volatility of exchange rate markets this year that difference may be attributable to the exchange rate at the time of shipment. Given this, we consider that UPS falls within a competitive range on three of the four shipments. The total savings on the four shipments amounts to USD 26,775.75, and overall, we deem UPS rates to be good value to the Task Order. We will continue the study throughout the Fiscal Year.

Freight Forwarding

From October 2009–March 2010, the freight team successfully forwarded malaria commodities to several PMI countries, including ACT shipments to Angola, Benin, Kenya, Malawi, Mozambique, Nigeria, Senegal, and Tanzania. The freight team coordinated the in-country distribution of long-lasting insecticide-treated bed nets (LNs) and Rectal Artesunate to several districts in Benin. The freight team also coordinated the in-country Angola distribution of ACTs.

Shipment execution tasks include freight estimate preparation, vendor door pickup, freight booking, shipment tracking, customs clearance, and final recipient delivery. The freight team will continue to update the country specific shipping instructions in Orion, which is part of the project's management information system (MIS). The project continued to manually update shipment milestones in Orion. Shipment milestones provide shipment visibility to users of the MIS website.

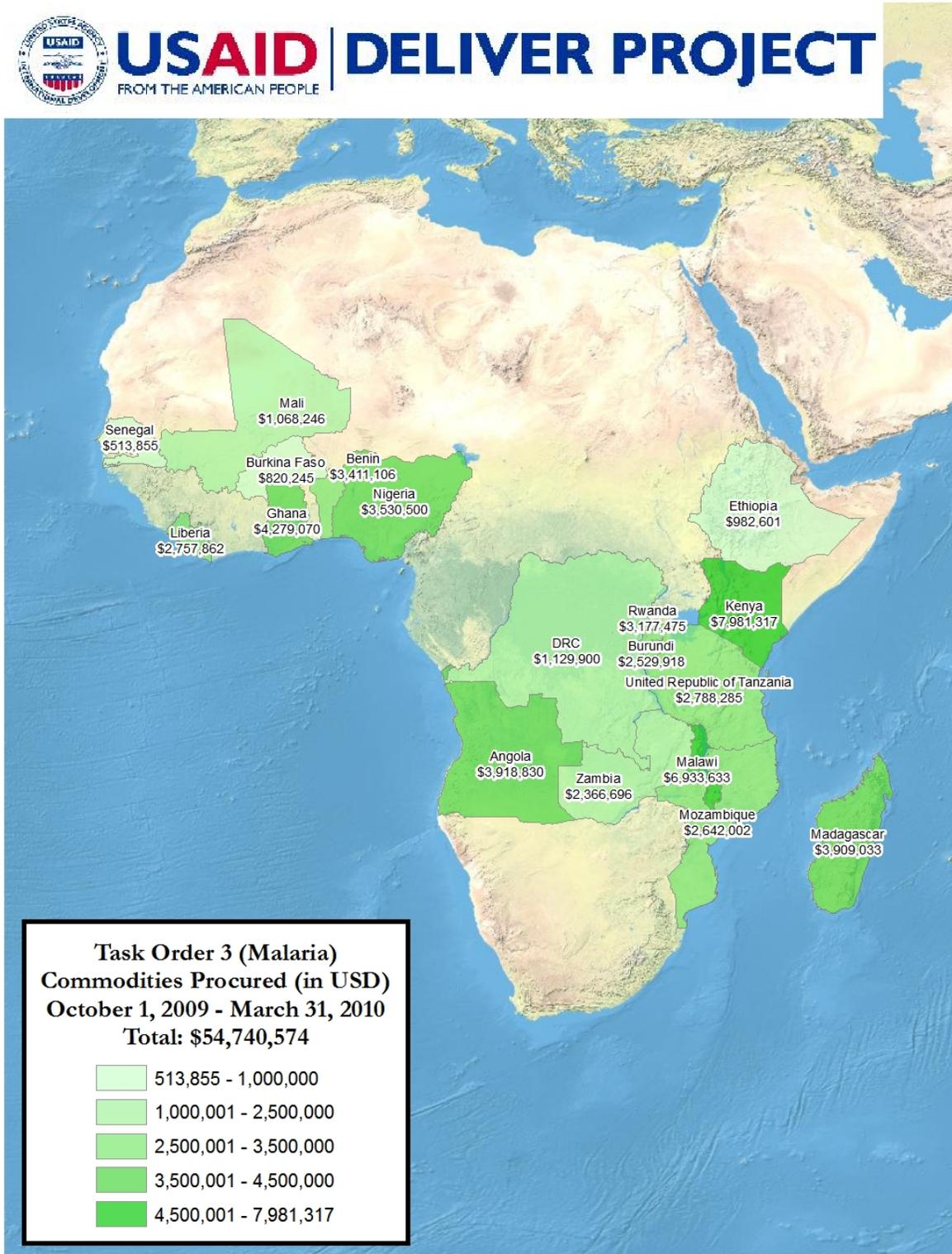
For cost effectiveness, avoiding shipping delays due to obtaining insurance coverage and to ensure that TO3 shipments are adequately insured, the freight team worked with Mason and Mason, JSI's insurance company, to obtain competitive quotes from insurance underwriters. This new insurance policy is now in effect.

The relatively large shipment sizes and limited airline capacity continued to present challenges, but the freight team responded effectively and will continue to research strategies to ensure timely and complete deliveries. Angola continues to provide the most difficult circumstances for forwarding freight. For the most recent Angola shipment, the project obtained exemptions from several Angolan government agencies, which allowed the order to bypass the customs warehouse and be delivered directly to the recipient. This model will continue to be followed for all Angola ACT shipments.

Shipment security continues to be a concern. The freight team worked with the task order management and in-country contacts to provide security escorts, when necessary.

For a complete list of commodities procured, see Appendix B.

Figure I. Commodities Procured, October 1, 2009 – March 31, 2010



Quality Assurance

Long-lasting insecticide treated nets

From October 2009 - March 2010, the Quality Assurance team managed pre-shipment inspection and testing for 11 orders of nets from 4 different suppliers.

Complete test reports and Certificate of Conformances were available for each shipment within 3 months of shipment (median 7 days, ranging from 5 days before to 15 days after shipment) and prior to the shipments arriving in country.

Rapid Diagnostic Test Kits (RDTs)

Between October and March, there were 4 new shipments of RDTs from 3 different manufacturers, including one to replace malfunctioning kits in Zanzibar. Samples were taken pre-shipment for testing by a WHO laboratory. Test results were available between 5 to 14 days of sampling (median 8 days) and all results were compliant. Approximately 40 quarterly stability testing reports were received. All results were compliant with WHO specifications.

Pharmaceutical drugs

Coartem®

The QA team reviewed manufacturer's Certificates of Compliance for all batches of Coartem® procured between October and March. In November, Family Health International (FHI) received retention samples from Novartis of each batch procured by the project in the preceding six months. These samples were scanned with Near-Infrared (NIR) spectroscopy as part of the routine QA check for active ingredients and lot-to-lot consistency. FHI has also started analytical testing of these retained samples for amount of active ingredient.

Other pharmaceutical drugs

The QA team arranged for sampling and pre-shipment testing for two consignments of sulfadoxine-pyrimethamine (SP) and one for injectable artemether. Testing was performed for two orders of fixed-dosed artesunate/amodiaquine (AS/AQ). All test results were compliant with the specifications and were available within 12 to 30 days after sampling. Test results for the two AS/AQ shipments were available on or before the actual shipping dates. For the full Quality Assurance Report Card, please see Appendix C.

Table 2. PMP Indicators for the Quality Assurance Process, October 1, 2009–March 31, 2010

Support Area	Operational Area	Indicator	Status
Quality assurance and quality control	Quality assurance and quality control procedures established and implemented	% of LN shipments with pre-shipment test reports available	100%
		Median time (in days) and range of days required for pre-shipment LN test reports	7 days after shipping Range was 5 to 15 days (14 to 33 days after sampling, median=21 days)

Support Area	Operational Area	Indicator	Status
		% of RDT shipments with up-to-date quarterly test reports available	100%
		Median time (in days) and range for up-to-date pre-shipment RDT test reports	8 days after pre-shipment sampling. Range was 5 to 14 days.
		% of pharmaceutical shipments with pre-shipment certificates of conformance	100%
		Median time (in days) and range required for pre-shipment pharmaceutical test reports	18 days after sampling Range was 12 to 30 days

Management Information System (MIS)

In October 2008, the MIS team was scaled back and began operating under a maintenance budget, which continues through the present day. The maintenance team is composed of the resources necessary to run the day to day operations of the system, prepare status reports, and to work on bug fixes and minor enhancements as directed by the Change Control Board (CCB). The CCB process provides for input from USAID and other stakeholders and assesses the business impact of individual issues; these procedures ensure that the most critical problems are addressed first. In addition to numerous other minor corrections and fixes the following more visible items were completed by the maintenance team during this reporting period. The work is grouped by impacted area, the USAID | DELIVER website or the ORION base software.

USAID | DELIVER PROJECT Website

View Shipments Web Reports

The view shipments report on the website was inaccurate if the shipment carried across a calendar year-end. The report would produce incomplete financials due to dropping certain prior year transactions. This has been corrected, verified, and implemented.

Web Inventory Reports

The project improved the usability of the existing online inventory reports by eliminating information and columns that were no longer used. These changes provide for easier management of inventory and identification of potential expiry issues.

ORION (SOT/Procurement base software)

ORION 3i Infotech Base Software Patch

A software patch was installed that corrected numerous problems encountered when placing and maintaining orders.

Data Correction

GRN (Goods Received Notice) #5252, for 500,000 bed nets was incorrectly assigned one batch number. After the GRN was approved, it was recognized that there were actually 10 batch numbers that should have been entered -- 50,000 nets per batch. After the GRN is approved the data can not be re-entered and had to be manually over-ridden by the programmer. The order was corrected and now correctly reflects the batches as shipped.

In addition to the specific project work, other activities were completed or are ongoing in an effort to provide the best possible service. These include the following items:

In early 2010 a review was conducted of all clients with access to online web reports and information. Remedial action was taken to eliminate unused logon ids and review system function for frequent web visitors.

Table 3. PMP Indicators for the MIS, October 1, 2009–March 31, 2010

Support Area	Operational Area	Indicator	Status
Management information system	Availability of USAID DELIVER PROJECT website	Percentage of time the USAID DELIVER PROJECT website is available.	99.99 %
	Total number of visits	Total number of visits to the USAID DELIVER PROJECT website	195,144
	Number of logins	Total number of logins to the USAID DELIVER Website	3,511

Objective 2: Strengthening In-Country Supply Systems

Long-Term Technical Assistance

Strengthening in-country supply systems and building greater capacity for improved management of malaria commodities at the local level are key to the success of Task Order 3. These actions ensure that commodities procured and delivered under Objective 1 activities and through other key malaria partners reach those in need. This section focuses on specific activities performed in countries where the project has an office and where it provided longer-term assistance during the first FY2009 reporting period.

Angola

- Because of repeated leakage from the Angomedica stores, PMI decided that for the foreseeable future the logistics services of both the National Essential Drugs Program and the Angomedica warehouse in Luanda should not be used for PMI shipments. In response to this, the project developed a plan for storing and distributing PMI-funded malaria commodities using private sector alternatives. The project supported the implementation of this plan for the first shipment of ACTs in February 2010. This included coordinating the delivery by charter aircraft, temporary storage by PSI and provincial distribution by UPS of

1.7 million treatments of ACTs. All products were received into provincial MoH depots within two weeks of arrival of the charter aircraft. The project will provide similar support for the next shipment of ACTs, currently scheduled for June 2010.

Burkina Faso

- The project opened a field office in Ouagadougou in mid-January 2010, and recruited the staff of Resident Logistics Advisor (RLA) and Finance/Admin Officer to support operations.
- The project conducted an assessment of the malaria products logistics system in conjunction with teams from Jhpiego/MCHIP and USAID/Washington, in order to develop a workplan and strategies to support the NMCP.
- The project reviewed the quantification and procurement plans of malaria commodities for 2010 with the NMCP, the Pharmacy Department and Reproductive Health Directorate and the *Central d'Achats des Médicaments Génériques* (CAMEG).
- The project provided technical assistance to the NMCP to develop LN campaign strategies, planning documents and necessary forms to support the upcoming LN distribution for universal coverage.

Burundi

The project, through its subcontractor, PSI, began activities during this period. Major activities include:

- Cleared and stored the initial 155,000 LNs, provided by USAID and received in December 2009.
- Developed a distribution list for the 155,000 LNs to the 17 Burundian provinces, in collaboration with the NMCP at the central level and the provincial health coordinators (BPS) at the decentralized level. The allocation of LNs to be distributed in antenatal care (ANC) and expanded program of immunization (EPI) clinics in each province is based on malaria prevalence, attendance of pregnant women and children at the clinics, and the size of these two target groups based on the 2008 census; it has been decided with the NMCP that the routine distribution will start at the end of April/early May 2010 to allow for the completion of the distribution of an emergent stock of nets received from UNICEF that is being distributed in the routine services.
- In collaboration with the NMCP and the USAID Mission, organized the official launch of the program on March 5; during this high profile event, U.S. Ambassador to Burundi Pamela Slutz; USAID/East Africa's Regional Director Larry Meserve; and Dr. Emmanuel Gikoro, Burundi's minister of public health, launched the new USAID malaria program in Burundi by distributing free LNs to women and children at a health clinic. The event also included a demonstration of the proper installation and use of the nets conducted by the PSI team.
- Promoted the awareness, acceptance, and appropriate use of LNs; five awareness sessions were conducted in March using mobile video units in ANC and EPI public health centers through which around 1,000 mothers of children under one year of age and pregnant women were reached.

Ghana

- The project assessed the storage and distribution system in twenty districts in the Northern Regions and produced a LN distribution plan for vulnerable populations (children under 5 years and pregnant women) with local partners, the MOH and the Ghana Health Service (GHS). As a result 630,000 LNs were distributed during the 2010 Maternal and Child Health integrated campaign. In addition, the project provided training on reporting documents, such as bin cards and waybills, to reinforce proper inventory control and distribution practices, for all district and sub-district storekeepers.
- The project has trained 178 commodity managers, 139 of which were newly recruited, in the logistics management information system and the SOPs, which resulted in having more skilled managers for malaria commodities.
- The project conducted two PMI End Use Verification exercises in two regions. The results showed malaria commodity stockouts and improper documentation of logistics information contributing to the presence of stockouts. Based on these findings, the project, GHS and MOH staff were able to provide formal and on the job trainings to support these regions.
- The project supported the GHS/MOH quantification team in quantifying malaria products and developed procurement plans for 2009-2011. The results were shared among all partners in an effort to fill the procurement gaps of malaria commodities.

Liberia

- The project supported the new logistics system standard operating procedures (SOP) training roll-out of over 400 health workers, representing 176 facilities, by actively training participants and by conducting quality checks on the SOP training exercises in Lofa, Bong, Nimba and Grand Gedeh counties. In addition, the project facilitated the distribution of the SOP documents throughout the country, assisted with the SOP activities in Monserrado County and disseminated the baseline report on SOP training to the partners and stakeholders.
- The project provided one-on-one training of county health pharmacists from Grand Cape Mount, Bomi, Margibi and Lofa in the use of the commodity management tool, which was designed by the project field office and is currently being used by the National Drug Service (NDS) in several counties.
- The project continues to provide technical support to NDS in optimizing warehouse space by identifying items within the warehouse that are obsolete or expired for possible relocation or disposal. The project also proposed innovative solutions for the NDS space limitations, including a pre-fabricated warehouse, about four times the size of the actual NDS, to cater and supply directly to the health facilities.

Madagascar

After the military coup in March 2009, the U.S. government imposed sanctions against the government of Madagascar, suspending all public sector activities, with the exception of those that alleviate the humanitarian emergency. The majority of TO3 activities in the public sector were suspended; however activities conducted in cooperation with NGOs in Madagascar are ongoing.

- The project supported the National Coordination Committee (CNC) during the November and December 2009 LN distribution campaign by conducting supervision and monitoring

visits in the 12 targeted districts. The project continues to provide technical assistance with the strategizing and planning for the upcoming LN distribution campaign, which will target the remaining 72 districts.

- The project arranged the customs clearance and third party warehousing for 870,000 LNs, which were delivered on January 19, 2010.
- In support of the project's LN Collect and Recycling pilot activity, the project organized, in collaboration with the WHO, a two day workshop co-sponsored by the Ministry of the Environment and the NMCP. This forum enabled various stakeholders, including the Ministry of the Environment, the NMCP, donors and partners, to come together and decide on the next steps for LN collect and recycling implementation. (This activity is primarily funded through core funds, with some field support contributions.)



Children in Madagascar standing under the new LN they received during a PMI-supported universal coverage campaign in November 2009 (USAID|DELIVER PROJECT)

Malawi

- The project supported the development and pilot implementation of new Central Medical Stores (CMS) SOPs to build capacity at the Regional Medical Stores (RMS).
- In an effort to assist the RMS' to address the ACT stockouts reported by facilities through the logistics management information system (LMIS), the project is developing a template distribution table that will be piloted.
- The project assisted CMS to conduct a physical count and monitor storage conditions at the central level for ACTs.
- The community case management (CCM) LMIS tools and the SOPs developed by the project have been discussed and validated during a two-day workshop with all implementing partners, including the NMCP and the Integrated Management of Childhood Illness (IMCI) Unit. The training of trainers (TOT) on these tools and SOPs were conducted in February 2010 with 24 district participants and three central level participants.
- The project assisted the Health Technical Support Services (HTSS) to conduct a quantification exercise for ACTs and other antimalarial drugs, and to review last year's RDT quantification.

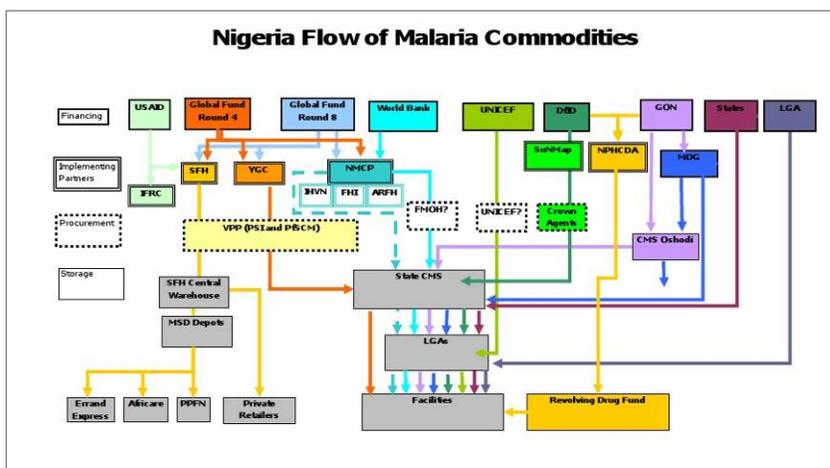
Mozambique

- The project worked with *Central de Medicamentos e Artigos Médicos* (CMAM), NMCP and other malaria partners to develop a procurement plan for 3 million treatments of AL from PMI for year 2010 which was approved in March.
- The project continued to support CMAM by packing AL kits at the Maputo central warehouse. From October 2009 to March 2010, 13,402 kits were packed for health facilities and 8,763 kits were packed for community health workers (CHW), equivalent to 3,616,086 treatments. The project transported AL kits to 6 provinces in December 2009 and to 8 provinces in February/March 2010.
- Every month, the project conducts a physical inventory of antimalarials and RDTs at the central level warehouses and reports information quarterly to the PPMRM.
- The project and SCMS decided on a re-design of activities and held a workshop with CMAM to establish priorities expressed by both USAID and CMAM. The results of the workshop discussions will be consolidated into one work plan (SCMS, TO1 and TO3) for CMAM and USAID approval.

Nigeria

- The project closely collaborated with the NMCP and other technical assistance partners to plan and support the roll out of LN distribution in twelve states. Although planned for 2009, some campaigns spilled over into 2010. As of March 2010, 17,951,410 LNs or 89.7% of the LN distribution targets had been distributed.
- As of March 31, 2010 the project conducted 165 local government area (LGA) warehouses assessments in ten states.
- The project supported the training of 492 persons in the LN micro-positioning plan training in 10 states during the month of November 2009.
- The project facilitated an LSAT workshop with 35 participants in January 2010, and a LIAT was conducted in February 2010. Data collection activities for the LIAT took place in 9 states across six geopolitical zones in Nigeria. The assessment covered 103 facilities constituting: 9 state CMS, 30 LGA stores, 64 health facilities drawn from both the public and private sectors. These assessments helped to map the flow of malaria commodities and feed into a malaria logistics system design.
- The project also supported the training on LN logistics for 586 persons from eight states.

Figure 2. Nigeria Flow of Commodities



Rwanda

- The project recruited a Malaria Logistics Officer, who is currently seconded to the NMCP, and responsible for all logistics activities within the malaria unit. The project supported her to attend an ACT quantification and procurement training in the Netherlands in March 2010.
- The project conducted a physical inventory of MCH and malaria commodities in December 2009. The exercise covered the two central medical stores (CAMERWA and BUFMAR), 30 districts pharmacy stores, 40 general hospitals and 85 SDPs.
- The project continues to support the Pre-Service Training initiative and developed university logistics management curriculum for lecturers, along with a student syllabus. As of July 2010, the training module will be taught in the pharmacy department at the university.
- The project also conducted a supply chain management training of ten lecturers from the pharmacy department of the National University of Rwanda (NUR), aimed at developing the local capacity of university lecturers.

Tanzania

- The project conducted preliminary planning sessions with Zanzibar CMS staff regarding IT support to CMS and a longer term plan for transitioning Zanzibar from a push to a pull system.
- The project conducted the ILS roll out training for Morogoro Region in December 2009 training a total of 495 health workers who were trained by facilitators drawn from Iringa and Morogoro Zonal Training Centers, Pharmaceutical Supplies Unit (PSU) and JSI. This was the last ILS training which completes the implementation of a nationwide rollout that has been occurring for several years. The entire country has now switched from using a Kit system to an Integrated Logistics System.
- The “Strengthening Supply Chains through Monitoring and Evaluation” course was conducted, attended by participants from ten countries. Tanzania participants included the PSU/NMCP Pharmaceutical Services Coordinator and two ESAMI staff members.
- The Quarterly End Use Verification Exercise was conducted in January 2010 where short term technical assistance was received in order to provide training to data collection teams on using cell phones for routine data collection. Data collectors from NMCP, PSU, CDC, PMI, and the USAID | DELIVER PROJECT were trained in and implemented the use of the EpiSurveyor mobile software for the data collection exercise. Cell phones are now being used to enter data at the facility level and then uploaded onto a database to conduct thorough data analysis.
- The project implemented the initial stage of a large scale data collection exercise to capture facility-level data from Report and Requisition (R&R) forms submitted to the zonal Medical Supplies Department (MSD) stores. This activity is an initial bid to transition from the roll out of the ILS to monitoring the implementation of the ILS. In coordination with the use of cell phones for the End Use exercise, the R&R activity also explored the possibility of using cell phones and developing a functioning database for future use in order to increase access to essential data.
- The project conducted a series of activities designed to identify interventions to help strengthen implementation of the Integrated Logistics System (ILS) in the field. These

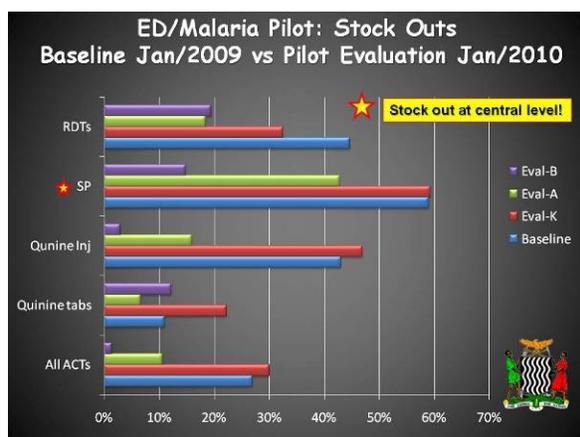
included brainstorming sessions where participants from facility, district, regional and zonal MSD levels identified problem areas, followed by additional discussion to design activities to address system weaknesses.

- The project supported the quantification process for ACTs to the public sector, ACTs for Accredited Drug Dispensing Outlets (ADDOs), ACTs and RDTs for UNHCR and RDTs for Zanzibar.

Zambia

- The project collaborated with the Government of the Republic of Zambia (GRZ) and Medical Stores Limited (MSL) to pilot logistics management systems for essential drugs, including anti-malarial medications and RDTs, in the 16 pilot districts and eight control districts across the country.
- The project developed an End Use verification tool customized to the Zambian context, by adopting the use of EpiSurveyor software for malaria case management data collection, while still taking all PMI indicators into account.
- Evaluated logistics management systems for essential drugs, including anti-malarial medications and rapid diagnostic tests (RDTs), in the 16 pilot districts and 8 control districts. Results of the evaluation show: increased stock availability and access to ACTs; reduction in malaria commodity stockouts at both central and SDP levels; and reduction in number of clinically diagnosed malaria cases due to increase in RDTs usage and training of health staff in malaria case management.

Figure 3. ED/Malaria Plot: Stockouts



- 716 individuals were trained in the supply chain management of essential drugs, including anti-malarial medications and RDTs.
- The project also supported the training of 800 individuals in malaria case management (400 CHW and 400 health facility staff).
- The project reviewed and updated the five year (2010-2015) forecast for malaria drugs and RDTs and disseminated it among stakeholders to inform malaria program planning.

Short-Term Technical Assistance

In the context of TO3, STTA generally consists of one- to three-week assignments to help malaria program managers resolve a well-defined program such as improving in-country distribution, solving storage capacity problems, or carrying out quantification exercises. Most of the STTA undertaken is in support of approved work plan activities in presence and non-presence countries. Occasionally, TO3 provides ad hoc STTA to respond to an urgent PMI or USAID Mission request. Over the previous six months, TO3 has provided STTA in Angola, Burkina Faso, Ghana, Kenya, Madagascar,

Malawi, Mozambique, Nigeria, Rwanda, Tanzania, and Zambia, all in support of work plan activities. A full list of STTA is provided in Appendix D.

Malaria Monitoring Activities

End-Use Verification and EpiSurveyor

TO3 helped create the PMI End-Use verification process in FY08, with the primary objective of monitoring and assessing the availability of malaria commodities at the health facility level, as well as obtaining information about malaria case management through patient registers and other written records. Following the project's successful pilot using mobile phones enabled with EpiSurveyor in 2009 to gather data for the End-Use activity, PMI recommended that this technology be introduced into other countries where End-Use was being conducted, in order to decrease the amount of time needed to enter and analyze data, while improving data quality.

The first country to roll-out the new technology during the reporting period was Zambia. In November of 2009, two TA providers from the core TO3 team traveled to Zambia to train office staff on the use of EpiSurveyor, as well as to standardize routine data collection for this activity. Decisions were made on how to properly integrate the End-Use activity into existing monitoring efforts for the Essential Drugs Logistics System (EDLS), and staff were instructed on the sampling methodology, analysis and reporting format for End-Use, as well as how to use mobile phones to carry out the survey. An activity manager was selected to be responsible for the regular implementation of the End-Use activity, which has since been carried out in two successive quarters in Zambia. The use of EpiSurveyor proved beneficial, and was adopted by the office to carry out a large evaluation of the EDLS, which yielded additional information on the supply chain for malaria commodities in Zambia.

EpiSurveyor was introduced next in Tanzania. End-Use in Tanzania has now been carried out over five quarters since January 2009, and the results are regularly shared in ACT working groups and PMI partners meetings, and have been included in the NMCP newsletter that is routinely distributed to district and regional medical officers. These findings have led to the implementation of interventions to address stockouts of AL, and the activity gives staff from the NMCP and the Pharmaceutical Supplies Unit (PSU) the opportunity as data collectors to see firsthand what is happening with the malaria supply chain at public health facilities.

Since the introduction of the End-Use activity in Ghana in June of 2009, the office has implemented the activity for an additional three quarters, working closely with staff from Ghana Health Services (GHS) and the NMCP to gather data from health facilities throughout the country. Concrete results from this activity include the adaptation of regular monitoring efforts in the Western Regional Health Administration to incorporate elements of the End-Use survey, such as a logistics record review and an examination of malaria case management, as well as the revision of the criteria for selecting health workers to receive training on inventory management to focus more on lower level health workers.

Results from these End-Use countries have also been used by PMI/Washington as components of the ongoing evaluation of the initiative's impact, and will be included in the final report for that study. The USAID | DELIVER PROJECT plans to continue to regularly conduct End-Use in the above countries, and to expand the activity in the latter half of FY10, with the possibility to carry out data collection in Liberia, Burkina Faso and Mozambique.

Table 4. PMP Indicators for Technical Assistance and Monitoring

Support Area	Operational Area	Indicator	Status
Short term technical assistance (STTA) Long term technical assistance (LTTA)	Respond to STTA needs as per Mission request to strengthen in-country supply chain management for malaria commodities In-country supply chain strengthened or improved	Timely response to ad hoc TA needs: % of STTA trips per Mission's/PMI Washington ad hoc request conducted on time	No ad hoc requests this period
		Quantity of malaria commodities (LNs, SP tablets, ACT treatments, RDTs) distributed in country using funds obligated to USAID DELIVER PROJECT	Angola: 3,567,360 ACTs Benin: 67,500 Artesunate suppositories and 215,000 ACTs Ghana: 630,000 LNs Kenya*: 5,368,320 ACTs; 690,000 LNs DRC: 235,000 LNs Madagascar: 500,000 LNs Rwanda*: 556,700 LNs
		Percentage of countries receiving field support TA funds reporting on availability of malaria (tracer) commodities at service delivery points/LN outlets	62.5% (3 of 8** countries reporting through end use, 1 country conducted a national assessment, and 1 country reporting through LMIS data)
		Percentage of countries receiving field support TA funds reporting on supply chain performance via the end use or other survey	62.5% (5 of 8 countries reporting)**
		Number of staff trained on the supply chain management of malaria commodities	1,145
		Percentage of countries with field support TA funds reporting central level ACT stock in quarterly stock monitoring report	43% (3 of 7 countries reporting)***

* The project paid CMS a percentage to distribute commodities in Kenya and Rwanda.

** Of the 11 TO3 countries, Rwanda does not allow the project access to this data since the ACTs are procured through Global Fund and the project is unable to access data in Madagascar due to the government sanctions, so they were removed from the calculation. In Burundi and Malawi, SPS is responsible for collecting end use data, however, Malawi reports stock status through the LMIS on a monthly basis so it is included in the calculation (but Burundi is not).

*** TO3 is responsible for collecting PPMRm data in 7 countries. As previously stated, the project cannot access data for Rwanda and Madagascar. Nigeria does not report on the PPMRm due to the fact that it does not hold central level stock. It is anticipated that Burkina Faso will report next period.

Objective 3: Improving the Global Supply of Malaria Commodities

Roll Back Malaria Partnership and the Procurement and Supply Chain Management Working Group

As a member of the Roll Back Malaria (RBM) Partnership and the Procurement and Supply Chain Management Working Group (PSM-WG), TO3 participated in two meetings during the reporting period: Procurement and Supply Management of LNs Workshop in October 2009, and a PSM-WG Meeting in January 2010.

The Procurement and Supply Management of LNs Workshop was a forum for GF Principal Recipients and malaria program managers to discuss LN procurement and supply chain management bottlenecks, brainstorm possible solutions and share country implementation experiences. Discussion sessions included GF and PMI funding methodologies, WHO guidance on LNs, technical specifications, quality assurance, routine and campaign distribution, and measuring the impact of LNs.

The key points of the PSM-WG meeting include: development of a global forecast for ACTs by Clinton Health Access Initiative (CHAI) and MIT Zaragoza, LN scale up to reach 2010 targets, Global Fund Voluntary Pooled Procurement (VPP) country examples and challenges faced, Good Procurement Practices (GPP) for RDTs and ACTs, update on Affordable Medicines for malaria (AMFm), and existing initiatives for tracking commodities using new technologies.

Trop Med Annual Conference

Task Order 3 also sent participants to the Annual Trop Med Conference in November 2009. During this conference, the project presented two posters, and also participated in one panel presentation.

Global RDT Meeting

The Global RDT procurement meeting was hosted by PMI with logistical support and participation by the project and was a forum for all partners and entities involved in the financing and procurement of RDTs. This meeting focused on the selection criteria for procurement, standardization of RDTs by manufacturers, detection rate of tests, quality assurance and in-country roll-out challenges and solutions.

Interagency Pharmaceutical Council

The Interagency Pharmaceutical Council meeting was held in November 2009 in Washington, DC. TO3 participated in this meeting, which focused on international cooperation around procurement and tracking of malaria pharmaceuticals. The project also presented on TO3 tools and practices, such as the PPMRm and the End Use Verification tool.

Alliance for Malaria Prevention Activities

Task Order 3 sent a participant to the Alliance for Malaria Prevention (AMP) meeting in Geneva in February 2010. At the meetings, attendees discussed: the progress report on 2009 LN mass distribution campaigns, the strategy in moving forward from targeted to universal coverage, the

report on evaluation and data produced in 2009, the coordination of partner support for 2010 activities, and challenges faced in LN scale up to date, and solutions moving forward.

At the meeting, the project, in collaboration with WHO presented “LN Pull-back, Recycling and Disposal.” This presentation focused on raising awareness to the fact that in five years, 100 million used LNs will need to be disposed of in Africa. The goal of the project is to reduce the potential impact of expired nets on the environment and develop a plan for the distribution and collection of used LNs to promote a life-cycle approach to product management. This will mutually reinforce public health goals and environmental safety.

Table 5. PMP Indicators for Supporting Global Supply and Availability Initiatives

Operational area	Indicators	Status
Support global and regional stakeholders/forums of SCM technical issues	Number of global and regional malaria initiatives with DELIVER technical participation	5
	Number of technical reports or tools developed to support global and regional malaria initiatives.	6

Performance Monitoring

The project monitors its performance in two ways. First, at the beginning of each annual workplan period, it establishes a set of deliverables, including the dates of submission. This is summarized in a table that outlines all deliverables and is reported against it in the semi-annual and annual reports. TO3's COTR vets the deliverables to ensure that they respond to USAID's monitoring needs; progress against the deliverables is discussed regularly at the TO3/USAID meetings, as are any needed revisions to the deliverables or their respective due dates. A table of agreed-upon deliverables and their status for this reporting period is provided in Appendix E. A number of deliverables that were added in this fiscal year's work plan were delayed while waiting for formal approval of the work plan.

In addition to annual deliverables, TO3 uses an agreed-upon set of indicators—the Project Performance Monitoring Plan (PMP)—to monitor project performance. The PMP describes how and when the project will survey, observe, evaluate, and document performance outputs. TO3 finalized its PMP indicators during this reporting period, including detailed data sources, frequency of collection, and calculation instructions in the accompanying Quality Assurance Surveillance Plan (QASP); the plan also provides additional guidance on indicator definitions; acceptable performance levels; responsibilities for data collection; and documentation required for verification, substantiation, and commentary on issues that may affect the interpretation of the indicators. See Appendix E for the QASP and PMP table. The project began tracking these indicators in FY09; we included the results to date in a table under each objective.

Other less formal methods for performance monitoring and management are also in place—such as weekly TO3/USAID meetings and the distribution of an updated Current Actions. During weekly meetings with USAID personnel and principal project staff, the TO3 team discusses all issues related to upcoming procurement and technical activities and determines the best way to address any problems. The project conducts a country-by-country review of all ongoing procurement actions and their status is updated on the Current Actions table, which is then made available every week to all PMI and project managers.

Key Accomplishments

During the reporting period, Task Order 3 continued to scale up its activities, responding to increased procurement requests, several emergency shipments and frequent requests for TA. The team continued to standardize all the operational procedures; we quickly and efficiently dealt with challenges and successfully responded to the needs of USAID, PMI and the country teams.

Following are a few of the highlights from the project's support of the PMI:

- During the reporting period, the project procured commodities worth \$54,740,574, which is almost equivalent to the entire value of commodities purchased during FY2009. During the last six months, the project procured malaria commodities for Angola, Benin, Burundi, DRC, Ethiopia, Ghana, Kenya, Liberia, Madagascar, Malawi, Mali, Mozambique, Nigeria, Rwanda, Senegal, Tanzania and Zambia. This included 13,967,160 treatments of malaria pharmaceuticals for ten countries; 7,350,000 LNs for 12 countries; 2,900,000 RDTs for four countries; and various quantities of severe malaria medicines, lab kits and laboratory equipment for six countries.
- The project has responded to emergency orders from 8 countries since project inception, of which orders were placed for 5 countries in this reporting period alone.
- In Angola, the project supported the implementation an alternative distribution plan that uses private sector entities to deliver directly to the provinces. This included coordinating the delivery by charter aircraft, temporary storage by PSI and provincial distribution by UPS of 1.7 million treatments of ACTs. All products were received into provincial MOH depots within two weeks or arrival of the charter aircraft.
- In Ghana, the project conducted two End Use Verification exercises in two regions. The analysis of the results showed malaria commodity stockouts and improper documentation of logistics information, will assist the GHS and MOH to provide on the job training to improve malaria commodity management and availability.
- In Madagascar, the project assessed the feasibility of conducting a LN recycling pilot in collaboration with the National Coordination Committee for LN campaigns (CNC), Ministry of the Environment, WHO/ SAICM Project, PSI, and the Mission, in conjunction with the upcoming LN distribution campaign planned for September 2010.
- In Malawi, the project continued to strengthen the LMIS and provide monthly stakeholders reports summarizing stock availability by district and facility level stockout rates for ACTs, SP and quinine.
- In Mozambique, the project continued to support CMAM by packing 22,165 AL kits at the Maputo central warehouse, and transporting them to 14 provinces.
- In Nigeria, the project facilitated the distribution of 17,951,410 LNs in twelve states, in support of the NMCP LN distribution campaign.

- In Tanzania, the project completed a series of roll out training, totaling 495 health workers trained, on the implementation of the ILS system. To date, the entire country has now switched from the previous kit system to the ILS system.
- In Zambia, the project demonstrated that supply chain improvements can significantly increase the availability of ACTs, RDTs and other malaria medicines through its essential medicines logistic system pilot. Availability of pediatric ACTs increased from 51 percent in the control facilities to 88 percent in the pilot facilities that used the district as a cross-dock. Availability of adult ACTs also increased to a similar level.
- The project customized the EpiSurveyor software and piloted its use in Tanzania and Zambia, in conjunction with the End Use Verification exercise.
- Conducted two quarters of reporting on the PPMRM. This report provides central-level stock status for PMI-focus countries, including months of stock available and planned shipments by supplier/ funding source. The report summarized and highlights, from the country-level data, countries that are currently stocked out, understocked or overstocked. It also recommends ways to address critical stock issues. During the first quarter FY2010, 12 countries reported and 15 reported during the second quarter.
- Participated in a number of international malaria meetings to address and improve the global supply of malaria commodities.

Implementation Issues and Solutions

Managing Expectations: Procurement

During the reporting period the project continued to face challenges in managing expectations under Objective 1 activities. TO3 worked closely with clients to help them to better understand the procurement process and align their expectations to what is under the manageable influence of the project. This included:

- helping these partners define their product specifications as early as possible in the procurement process;
- explaining that TO3 does not hold existing stocks, and that there is therefore a certain amount of lead time tied to the production and transportation of the items ordered that needs to be accounted for;
- conveying the fact that changes in specification, delivery destination or distribution schedules late in the procurement process or after a contract has been placed have an impact both on price and delivery time;
- explaining that inconsistency in the time taken by OAA to give approvals (varying from 24 hours to months) results in a certain amount of indeterminacy in how long it will take to place an order;

The project used various methods to communicate this information including individual communication through e-mail and phone conversations, a presentation at a joint Global Fund/RBM PSM working group meeting, and procurement sessions for the project's country management teams and during the Junior Officers' short course.

Tracking Commodity Funding Across Country, Funding Years, and Commodity Type

Another challenge encountered during the reporting period is the increasing complexity in tracking and reporting commodity funding and expenditure by country and by individual commodity type. The project receives a lump sum for commodity procurement by country, not distinguished by commodity type. However, PMI and Missions request that the project track funding and expenditures by commodity type to help them to manage their procurements against the MOP estimates. This is challenging as the funding may come in several tranches (e.g. early release) over a year and is not earmarked by commodity type. Additionally, many countries reprogram MOPs from one commodity type to another to better respond to field realities. While these reprogrammings are eventually posted on the PMI website, it is often after a procurement action has been initiated. TO3 is working with its COTR team to ensure that information on funding by commodity type is provided by PMI whenever funding is obligated and whenever it changes. When requested the

project can provide information on funding and expenditures by commodity type (including estimated costs based on new procurement requests) based on the most current information that the project has available.

Country-Level Operational Challenges

The project faced a number of operational challenges. These included:

- Madagascar: disruption in activities due to political upheaval and the subsequent U.S.-imposed sanctions that restrict support to the government
- Rwanda: building relations with the NMCP and together agreeing on a program of work that mutually supports the NMCP and PMI goals has been challenging. The NMCP has been unwilling to share data on all malaria commodities, such as ACTs, which are procured by the Global Fund, and therefore the FO has been unable to complete reports such as the PPMRm. The NMCP has also cancelled several attempts made by the project to implement the End-Use Verification tool, so the project has been unable to implement this activity to date.
- Nigeria: Based on priorities identified in the MOP and further discussions with PMI and the Mission, the project developed a work plan with two major work streams: supporting LN campaign distribution logistics and establishing a malaria commodity logistics system. Soon after the work plan was approved, Global Fund issued several work orders, a number of which overlapped with the malaria logistics assistance included in the project's work plan.
- During the reporting period, the project has responded to a number of emergency requests. Most of the requests were because of an issue with a planned Global Fund procurement—delays in grant signing, delays in fund dispersal, audit issues, etc. The PPMRm helps to identify such issues early so action can be taken to avert stock outs.

For each of these operational challenges, the project works with Mission, PMI and in-country stakeholders to develop a specific response that reflects the unique operating environment with in that country.

Planned Performance Objectives for the Next Six Months

Based on the FY2010 workplan, during the next six months the malaria team will –

- Complete the LN cost effectiveness analysis
- Roll out EpiSurveyor in Liberia and one or two more countries
- Continue to implement the End Use Verification exercises in project-led countries
- Post one page malaria logistics highlights
- Prepare LN recycling pilot report
- Develop LN retire and reuse guidelines
- Draft malaria supply chain logistics guidelines
- Prepare and submit a quarterly PPMRm report
- Participate in global malaria meetings to provide supply chain perspective
- Update procurement scorecard and submit with annual report
- Update QA scorecard and submit with annual report
- Prepare FY2011 annual workplan and budget.

Appendix A

Malaria Medicines Fact Sheets

MALARIA MEDICINES

FACT SHEETS



Artemether/Lumefantrine 20/120mg tablets

Brand Name	Manufacturer	Strength/Form	Packaging and Shipping Information	Shipper Dimensions (cm)	Shelf Life	Storage Conditions
Coartem® (WHO Pre-qualified)	Novartis International AG CH-4002 Basel Switzerland Tel: +41 61 324 11 11 Fax: +41 61 324 80 01	Tablets containing: Combination of 20mg Artemether and 120mg Lumefantrine	Blister packs 1x6 tablets 2x6 tablets 3x6 tablets 4x6 tablets	40X27x34 40X27x34 51X32x34 51X32x34 (each shipper has 30 treatments)	24 months	Store at temperatures Below 30°C

World health Organization recommended treatment regimen*	
WEIGHT (kg)	Number of tablets of Artemether/Lumefantrine PER DOSE to be taken each at time 0, 8h, 24h, 36h, 48h, & 60 hours
<5 kg	not recommended at this time
5- <15 kg	tablet
15- <25 kg	tablets
25- <35 kg	tablets
>35 kg	4 tablets

* Source: http://www.who.int/malaria/cmc_upload/0/000/015/789/CoA_website5.pdf

1
2
3

Artesunate Injection, 20mg, 60mg, 80mg

Brand Name	Manufacturer	Strength/Form	Packaging and Shipping Information	Shelf Life	Shipper Dimensions (cm)	Storage Conditions
Artesun	Guilin	Artesunate injection 60mg/ml amps	Each box contains one vial of Artesunate + one ampoule of 5% sodium bicarbonate, 5 boxes per middle box	24 months	Pack size: 0.06M3 Gross 500 packs boxes/carton weight: 14.2kgs	Store below 25°C
Generic	Dafra	Artesunate injection 20mg/ml amps	Each box contain one vial of Artesunate + one ampoule of 5% sodium bicarbonate, 5 boxes per box	36 months	Pack size: 79x53x34cm 500 X10 packs boxes/carton weight: 23.46kgs	Store below 25°C
Generic	Dafra	Artesunate injection 80mg/ml amps	Each box contain one vial of Artesunate + one ampoule of 5% sodium bicarbonate, 5 boxes per middle box	48 months	Pack size: 79x53x34cm 960 x 5 packs boxes/carton weight: 24.55kgs	Store below 25°C

WHO recommended dose	
ADULT and CHILD over 6 months	Loading dose of 3.2 mg/kg, then 1.6 mg/kg daily until patient can tolerate oral medication or to maximum of 7 days;

*Price, packaging and shipping information will vary according to contract specifications

Artesunate Suppositories, 50mg, 200mg

Brand Name	Manufacturer	Strength/Form	Packaging and Shipping Information	Shelf Life	Shipper Dimensions (cm)	Storage Conditions
Plasmotrim®-50	Mepha	Plasmotrim™-50 Rectocaps™: each containing 50 mg artesunate	One pack contains 6 and 12 Rectocaps™	24 months	Info not available	Store dry Below 25 °C
Plasmotrim®-200	Mepha	Plasmotrim™-200 Rectocaps™: each containing 200 mg artesunate	One pack contains 6 and 12 Rectocaps™	24 months	Info not available	Store dry Below 25 °C

Manufacturer recommended dose (suppositories to be inserted per rectum)	
Children	The dosage should be adjusted according to body weight using the 50 mg formulation as follows: Day 1: 5 mg/kg twice daily Days 2 to 5: 5 mg/kg/day in once daily doses
Adults	In non-complicated malaria the recommended dosing regimen is: Day 1: 200 mg b.i.d. Day 2 to 5: 200 mg/day in once daily doses Total artesunate dose 1200 mg

*Price, packaging and shipping information will vary according to contract specifications

Artesunate 50mg + Amodiaquine 153mg tablets

Brand Name	Manufacturer	Strength/Form	Packaging and Shipping Information	Shelf Life	Pack Dimensions	Storage Conditions
Arunate-AQ	8 Canluan Rd., Guilin, China 86 0773 587 8086, 86 0773 587 5328 fax, http://www.guilinjiqi.com.cn	Tablets containing: Artesunate 50 mg tablets + Amodiaquine 150mg (as base or equivalent to 200 mg as HCl) tablets.	One blister pack = one treatment Box containing 25 blisters of 3 + 3 tablets, Box containing 25 blisters of 6 + 6 tablets Box containing 25 blisters of 12 + 12 tablets	24 months	Pack size: 37 x 32 x 28CM 37 x 37 x 28CM 52 x 32 x 30CM 0.065 M3 25 blister packs per box, 56 boxes per carton, Gross weight: 14.55kgs	Store at Below 25°C
Larimal	IPCA Z 2-19, saif-Zone, PB No : 9608 Sharjah, UAE (Emiratos Arabes Unidos) Tel. +971 6 577 4494/95 Fax. +971 6 557 4496 E-mail: prandeep@nabiarprandeep.com	Tablets containing: Artesunate 50 mg tablets + Amodiaquine 153 mg (as base or equivalent to 200 mg as HCl) tablets.	Co-packed in blisters/strips As+AQ tablets: Box containing 10 blisters of 3 + 3 tablets, Box containing 10 blisters of 6 + 6 tablets Box containing 10 blisters of 12 + 12 tablets	36 months	53 x 32 x 31 cm 39 x 32 x 29cm 53 x 32 x 31 cm	Store at Below 25°C

World health Organization recommended treatment regimen	
WEIGHT (kg)	Number of tablets of Artesunate 50mg + Amodiaquine 153mg PER DOSE to be taken each on days 1, 2 and 3
AGE 5 to 11 months:	Artesunate 25mg (½ tablet) + Amodiaquine 76mg (½ tablet)
AGE 1 to 6 years:	Artesunate 50mg (1 tablet) + Amodiaquine 153mg (1 tablet)
AGE 7 to 13 years	Artesunate 100mg (2 tablets) + Amodiaquine 306mg (2 tablets)
AGE 13 years and above:	Artesunate 200mg (4 tablets) + Amodiaquine 612mg (4 tablets)
The total recommended treatment is 4 mg/kg body weight of artesunate and 10 mg base/kg body weight of Amodiaquine given once a day for 3 days.	

*Price, packaging and shipping information will vary according to contract specifications

Artesunate 50mg - Amodiaquine FDC tablets

Brand Name	Manufacturer	Strength/Form	Packaging and Shipping Information	Shelf Life	Pack Dimensions	Storage Conditions
Coarsucam/ ASAQ	82, avenue Raspail 94255 Gentilly cedex France Tel. +33 1 41 24 57 92 Fax; +33 1 41 24 58 62 e-mail rene.cazetien@sanofi-aventis.com http://www.sanofi-aventis.com Manufacturing site: Casablanca, Morocco	Tablets containing: Artesunate 25 mg tablets + Amodiaquine 67.5 mg	Fixed dose combination in As-AQ tablets: Box containing 3 x 25 blisters Or 6 x 25 blisters	24 months	14cm x 12cm x 4.5cm	Store at Below 30°C
		Artesunate 50 mg tablets + Amodiaquine 135 mg	Fixed dose combination in As-AQ tablets: Box containing 3 x 25 blisters	24 months	14cm x 12cm x 4.5cm	Store at Below 30°C
		Artesunate 100 mg tablets + Amodiaquine 270 mg	Fixed dose combination in As-AQ tablets: Box containing 3 x 25 blisters	24 months	14cm x 12cm x 4.5cm	

World health Organization recommended treatment regimen	
WEIGHT (kg)	Number of tablets of Artesunate - Amodiaquine PER DOSE to be taken each on days 1, 2 and 3
AGE 5 to 11 months:	Artesunate 25mg - Amodiaquine 67.5mg
AGE 1 to 5 years:	Artesunate 50mg - Amodiaquine 135mg
AGE 7 to 13 years	Artesunate 100mg + Amodiaquine 270mg
AGE 13 years and above:	Artesunate 200mg - Amodiaquine 540mg (2 tablets)
The total recommended treatment is 4 mg/kg body weight of artesunate and 10 mg base/kg body weight of Amodiaquine given once a day for 3 days.	

*Price, packaging and shipping information will vary according to contract specifications

Quinine sulfate 300 mg; Quinine bisulfate 300 tablets

Brand Name	Manufacturer	Strength/Form	Packaging and Shipping Information	Shelf Life	Shipper Dimensions (cm)	Storage Conditions
generic	Medopharm, India	<p><i>Tablets containing:</i> Quinine (anhydrous base) 100 mg = Quinine bisulfate 169 mg = Quinine dihydrochloride 122 mg = Quinine sulfate 121 mg.</p> <p>N.B. Quinine bisulfate 300 mg tablets provide less quinine than 300 mg of the sulfate or dihydrochloride.</p>	Packed in a tamper-evident container of 1000 tablets	36 months	Not provided	Store Below 24 °C
generic	Microlabs	<p><i>Tablets containing:</i> Quinine (anhydrous base) 100 mg = Quinine bisulfate 169 mg = Quinine dihydrochloride 122 mg = Quinine sulfate 121 mg.</p> <p>N.B. Quinine bisulfate 300 mg tablets provide less quinine than 300 mg of the sulfate or dihydrochloride.</p>	Packed in a tamper-evident container of 1000 tablets 48 packs per carton	48 months	38x32x38cm 22 kgs	Store Below 24 °C

World health Organization recommended treatment regimen	
WEIGHT (kg)	
ADULT:	600 mg (Quinine sulfate) every 8 hours for 3, 7, or 10 days
CHILD:	10 mg/kg (Quinine sulfate) every 8 hours for 3, 7, or 10 days; duration of treatment depends on local susceptibility of <i>P. falciparum</i> and whether or not additional anti-malarials also used

*Price, packaging and shipping information will vary according to contract specifications

Quinine hydrochloride Injection, Quinine dihydrochloride Injection

Brand Name	Manufacturer	Strength/Form	Packaging and Shipping Information	Shelf Life	Shipper Dimensions (cm)	Storage Conditions
Generic	No manufacturer found	Quinine hydrochloride injection, 300 mg/2ml	10 amps (2ml)	36 months	Not known	Store Below 24 °C
Generic	Gland Pharmaceuticals	Quinine dihydrochloride injection 300 mg/2ml	24 x 100 Amp (2 ml)	36 months	15.8x8x7.8cm	Store Below 24 °C

World health Organization recommended treatment regimen	
WEIGHT (kg)	
ADULT:	Quinine Hydrochloride IV, 10mg/kg body weight of salt (max 600mg), 8 hourly in 5-10ml/kg body weight in 5% Dextrose (500mls) given over 4 hours until the patient can tolerate oral quinine
CHILD:	Quinine dihydrochloride IV, 10mg/kg body weight of salt, 8 hourly in 5-10ml/kg body weight (in 4.3% Dextrose in 0.18% normal saline) given over 4 hours until the patient can tolerate oral quinine

*Price, packaging and shipping information will vary according to contract specifications

Sulphadoxine-Pyrimethamine, tablets

Brand Name	Manufacturer	Strength/Form	Packaging and Shipping Information	Shelf Life	Shipper Dimensions (cm)	Storage Conditions
Generic	IPCA	Tablets containing: Sulphadoxine 500 mg+ Pyrimethamine 25 mg	Packed in pots of 1000 tablets 28 packs per carton	36 months	55.5x40x21cm 21.16kgs	Store Below 24 °C
Generic	Strides	Tablets containing: Sulphadoxine 500 mg+ Pyrimethamine 25 mg	Packed in pots of 1000 tablets 30 packs per carton	36 months	495x315x350 26.18kgs	Store Below 24 °C
Fansidar	GSK, India	Tablets containing: Sulphadoxine 500 mg+ Pyrimethamine 25 mg	Packed in pots of 1000 tablets	48 months	Info not available	Store Below 30 °C

World health Organization recommended treatment regimen	
First Dose of 3 tablets	After quickening or 16 weeks of pregnancy
Second Dose of 3 tablets	At least one month after first dose
Third Dose of 3 tablets	At least one month after second dose

*Price, packaging and shipping information will vary according to contract specifications

Appendix B

Commodities Procured, October 1, 2009 – March 31, 2010

COUNTRY	DATE	COMMODITY	VALUE (\$)	QUANTITY
Angola	Dec-09	Coartem	3,805,211.00	3,567,360
	Jan-10	MMKs	113,619.00	30
Benin	Dec-09	Coartem	293,720.00	215,040
	Jan-10	MMKs	50,186.00	15
	Feb-10	LN's	3,067,200.00	568,000
Burkina Faso	Mar-10	RDTs	710,357.00	950,000
	Mar-10	SP tablets	109,888.00	3,300,000
Burundi	Feb-10	FDC AS/AQ	48,318.00	100,000
	Mar-10	LN's	2,481,600.00	480,000
DRC	Nov-09	LN's	1,129,900.00	235,000
Ethiopia	Nov-09	MMKs and Centrifuges	303,483.00	57 MMK's and 40 Centrifuges
	Jan-10	RDTs	679,118.00	860,000
Ghana	Nov-09	LN's	2,704,170.00	630,000
	Feb-10	LN's	1,574,900.00	325,000
Kenya	Nov-09	LN's	3,767,400.00	690,000
	Feb-10	Coartem	4,213,917.00	4,377,600
Liberia	Feb-10	LN's	2,270,400.00	480,000
	Mar-10	FDC AS/AQ	487,462.00	611,000
Madagascar	Dec-09	LN's	3,654,000.00	870,000
	Mar-10	Gloves/Safety Boxes	22,833.00	Various
	Mar-10	RDTs	232,200.00	270,000
Malawi	Oct-09	Coartem	175,272.00	276,480
	Nov-09	LN's	1,504,000.00	320,000
	Dec-09	Coartem	1,142,146.00	892,800
	Feb-10	LN's	4,112,215.00	850,000
Mali	Oct-09	MMKs	118,855.00	54
	Feb-10	Severe Malaria Pharmaceuticals	949,391.00	Various
Mozambique	Jan-10	LN's	2,642,002.00	500,000
Nigeria	Mar-10	LN's	3,530,500.00	614,000
Rwanda	Nov-09	LN's	3,092,360.00	388,000
	Dec-09	Lab Eqpt	85,115.00	Various
Senegal	Dec-09	Coartem	513,855.00	443,520
Tanzania	Oct-09	Coartem	2,788,285.00	3,483,360
Zambia	Nov-09	RDTs	461,280.00	820,000
	Nov-09	SP tablets	53,416.00	2,000,000
	Jan-10	LN's	1,852,000.00	400,000
Total			54,740,574.00	

Appendix C

Quality Assurance Report Card



Task Order 3- Malaria

Quality Assurance Report Card Products



LNs (Vestergaard: Polyester / Deltamethrin)

Destination	Nigeria-Calabar	Nigeria-Kano	Rwanda	Rwanda	Senegal	Zambia
Number of Lots	2	15	7	1	16	1
Quantity	116,000	590,000	524,400	56,700	790,000	78,315
Lot acceptance rate	100%	100%	100%	100%	100%	100%
Number lots rejected	0	0	0	0	0	0
Complaints	0	0	0	0	0	0
Quality investigations	0	0	0	0	1	0
COC Reviewed (100% complete)	10/27/08	12/8/08	11/9/09	11/9/09	5/22/08	1/3/08
Time in days required for pre-shipment physical inspection test reports (from sampling)	19	19	14	14	18	13
Time in days required for pre-shipment chemical inspection test reports (from sampling)	29	28	25	25	31	23
Time in days required from sampling to Certificate of Conformance (completion)	32	32	28	28	31	43
Time in days Certificate of Conformance completed after shipping date	27	19	15	15	17	40

LNs	Destination	Nigeria-Calabar	Nigeria-Kano	Rwanda	Rwanda	Senegal	Zambia
LN Description		polyester, deltamethrin, 75 dn, (190x180x150), white, rectangular	polyester, deltamethrin, 75 dn, (190x180x150), white	polyester, deltamethrin, 100 dn, 1250x65x250cm, white, conical (Tuzanet)	polyester, deltamethrin, 100dn, 190x180x180cm, green, rectangular (Tuzanet)	Polyester, Deltamethrin, 75dn, (190x180x170), white, rectangular	Polyester; Deltamethrin; 100dn; white; Rectangular; 160(h)x180(l)x150(w)
Supplier		Vestergaard-Vietnam	Vestergaard-Vietnam	Vestergaard-Vietnam	Vestergaard-Vietnam	Vestergaard-Vietnam	Vestergaard-Thailand
Order number			PO-PUC-101	PUP-266	PUP-266	PO-PUP-64	
Requisition Order		756	756	1418	1418	102	71
Contact Information							

Shipping Information	Nigeria-Calabar	Nigeria-Kano	Rwanda	Rwanda	Senegal	Zambia
Date Desired In-Country	Beginning of November	Feb '09	n/a	n/a	Apr '08	1/28/08
Sampling date	9/25/08	11/6/08	10/12/09	10/12/09	4/21/08	11/21/07
Scheduled ship date	9/25/08	11/17/08	n/a	n/a	4/30/08	11/24/07
Actual ship date	9/30/08	11/19/2008	10/25/2009	10/25/2009	5/5/08	11/24/07
Pre-shipment sampling to ship date	5	13	13	13	14	3
Arrival date	1/8/09	3/19/09	12/22/09	12/22/09	6/20/08	1/28/08
Arrival date -ship date	100	120	58	58	46	65

Shipment Inspections	Nigeria-Calabar	Nigeria-Kano	Tuzanet	Mamanet	Senegal	Zambia
Part 1 - document verification	complies	complies	complies	complies	complies	complies
Part 2- Visual Examination	Number of defects	Number of defects	umber of defec	number of defec	Number of defects	Number of defects
Holes in net	1	0	0	0	4	2
Stain (dirty net)	1	2	0	0	3	1
Incomplete hanging loop sewing	1	3	2	0	4	1
Loose Thread / Hole Broken	0	3	0	0	0	1
Plastic Bag damaged	0	0	0	0	0	5
Color-black dots on bottom	1	3	2	1	3	0
Net mis-shaped	0	4 (trimming)	4 (trimming)	2 (trimming)	2 (trimming)	0
split seam	2	2	3	1	3	0
General Inspection Level I-AQL 2.5 (Based on sample size)	Acc 10/Rej 11	Acc 21/Rej 22	Acc 14/Rej 15	Acc 7/Rej 8	Acc 10/Rej 11	Acc 10/Rej 11
Total Defects	6	17	11	4	9	10
Number tested	200	500	315	125	200	200
% defective	3%	3%	3%	3%	5%	5%

PHYSICAL TESTS	SPECIFICATION	Nigeria-Calabar	Nigeria-Kano	Conical	Rectangular	Senegal	Zambia
Date of report		10/14/08	11/25/08	10/26/09	10/26/09	5/9/08	12/4/07
Fibre Analysis	ISO 1833:1977/Routine	polyester	polyester	polyester	polyester	polyester	polyester
Fabrication	ISO 8388:1998/Routine/Warp knitted	Warp Knitted	Warp Knitted	warp knitted	warp knitted	Warp Knitted	Warp knitted
Mesh Size	ISO 7211/2:1984/Routine/24 holes cm2-Min	27	26	25	25	25	26
Dimensional stability to washing	ISO 3759:1994/ISO 5077/ENISO 6330:2001-w	+0.7	-1.5	-0.8	-1	-1.7	-0.8
Netting burst strength	ISO 13938-2:1999 >250 min kPa	-1.5	-1.7	-1.2	-2.2	-1.3	-1.2
Inner seam		308	281	374	353	301	427
Outer seam		296	310	>560	433	387	359
Denier	BS 5441:1998 cl 15 (for Information only)	252	279	424	390	366	359
Mass per unit area	ISO 3801:1977 for information only	75	75	100	100	75	100
		31	31	41	42	29	42

CHEMICAL TESTS	SPECIFICATION	Nigeria-Calabar	Nigeria-Kano	Rwanda	Rwanda	Senegal	Zambia
Date of Report		10/24/08	12/4/08	11/6/09	11/6/09	5/22/08	12/14/07
Total Deltamethrin content before wash	Within 25% of 55 mg/m2 (41-69 mg/m2)	47	49	60	60	55	57
Total Deltamethrin content after two	Mean - mg/m² or g/kg (retention) >80% of initial concentration	38	42	n/a	n/a	46	52
Total Deltamethrin content before wash +	+20% concentration	57	59	-	-	66	69
Total Deltamethrin content before wash -	-20% concentration	38	40	-	-	44	46

Lot Information	Nigeria-Calabar	Nigeria-Kano	Rwanda	Senegal	Zambia
Lot number(s)	1 405 8	1 597 8	17439	17539	1 203 8
Bold numbers tested by PSB	1 406 8	1 598 8 1 603 8 1 604 8 1 605 8 1 606 8 1 607 8 1 627 8	17449 17459 17469 17479 17489 17549	1 204 8 1 210 8 1 211 8 1 214 8 1 217 8	3 031 7
Qty	116,000	590,000	524,400	56,700	790,000
MFD	Jul '08	Oct '08 1 597 8 - 1 607 8 1 627 8 - 1 631 8	Sep '09	Sep '09	Apr '08
Status	Completed	Completed	Completed	Completed	Completed

LN's (Vestergaard: Polyester / D)			
Destination	Zambia	Zambia	
Number of Lots	2	6	
Quantity	108,235	325,000	
Lot acceptance rate	100%	100%	
Number lots rejected	0	0	
Complaints	0	0	
Quality investigations	0	0	
COC Reviewed (100% complete)	10/27/08	4/30/09	
Time in days required for pre-shipment physical inspection test reports (from sampling)	14	20	
Time in days required for pre-shipment chemical inspection test reports (from sampling)	24	27	
Time in days required from sampling to Certificate of Conformance (completion)	27	33	
Time in days Certificate of Conformance completed after shipping date	21	21	

LNs	Destination	Zambia	Zambia
LN Description		Polyester, deltamethrin, 75 dn, (160x180x170), white, rectangular	polyester, deltamethrin, 75 dn, 160x180x170, white, rectangular
Supplier		Vestergaard-Vietnam	Vestergaard-Vietnam
Order number		PUP-122	PUP-180
Requisition Order		831	1043
Contact Information		Thomas Damsbo Soerensen tel +1 571 594 2057	

Shipping Information			
	Zambia	Zambia	
Date Desired In-Country		early 2009	
Sampling date	9/30/08	3/28/09	
Scheduled ship date	10/31/08	3/15/09	
Actual ship date	10/6/08	4/9/09	
Pre-shipment sampling to ship date	6	12	
Arrival date	12/19/08	5/28/09	
Arrival date -ship date	74	49	

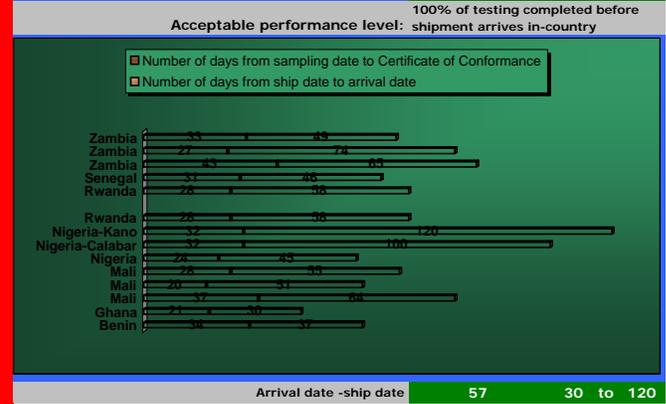
Shipment Inspections			
	Zambia	Zambia	
Part 1 - document verification	complies	complies	
Part 2- Visual Examination	Number of defects	Number of defects	
Holes in net	0	0	
Stain (dirty net)	1	2	
Incomplete hanging loop sewing	0	1	
Loose Thread / Hole Broken	1	0	
Plastic Bag damaged	0	0	
Color-black dots on bottom	1	2	
Net mis-shaped	2	3	
split seam	0	1	
General Inspection Level I-AQL 2.5 (Based on sample size)	Acc 10/Rej 11	Acc 14/Rej 15	
Total Defects	5	9	
Number tested	200	315	
% defective	3%	3%	

PHYSICAL TESTS			
	SPECIFICATION	Zambia	Zambia
Date of report		10/14/08	4/17/09
Fibre Analysis	ISO 1833:1977/Routine	polyester	polyester
Fabrication	ISO 8388:1998/Routine/Warp knitted	Warp Knitted	Warp knitted
Mesh Size	ISO 7211/2:1984/Routine/24 holes cm2-Min	26	27
Dimensional stability to washing	ISO 3759:1994/ISO 5077/ENISO 6330:2001-w	-4.5	0.8
	Weft	-2.3	-4.2
Netting burst strength	ISO 13938-2:1999 >250 min kPa	294	305
	Inner seam	325	362
	Outer seam	277	290
Denier	BS 5441:1998 cl 15 (for Information only)	75	75
Mass per unit area	ISO 3801:1977 for information only	29	30

CHEMICAL TESTS			
	SPECIFICATION	Zambia	Zambia
Date of Report		10/24/08	4/24/09
Total Deltamethrin content before wash	Within 25% of 55 mg/m2 (41-69 mg/m2)	44	61
Total Deltamethrin content after two	Mean - mg/m ² or g/kg (retention) >80% of initial concentration	35	n/a
Total Deltamethrin content before wash +	+20% concentration	53	-
Total Deltamethrin content before wash -	-20% concentration	35	-

Lot Information			
	Zambia	Zambia	
Lot number(s)	1 569 8	1 203 9	
Bold numbers tested by PSB	1 570 8	1 204 9	
		1 205 9	
		1 206 9	
		1 207 9	
		1 208 9	
		1 203 9 - 1 208 9	
Qty	108,235	325,000	
MFD	Sep '08	Mar '09	
Status	Completed	Completed	

LN's			
	TOTAL		
Number of lots	86		
Quantity	4,446,450		
Lot acceptance rate	100%		
Number lots rejected	0		
Complaints	0		
Quality investigations	1		
% of LN shipments with pre-shipment reports available within 3 months	Acceptable performance level: >90%	100%	
	Median	Range	
Time in days and range required for pre-shipment physical inspection test reports (from sampling)	14	11 to 20	
Time in days and range required for pre-shipment chemical inspection test reports (from sampling)	25	17 to 33	
Time in days and range required from sampling to Certificate of Conformance (completion)	30	20 to 43	
Time in days Certificate of Conformance completed after shipping date	20	-5 to 40	



Arrival date -ship date	57	30 to 120
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LN's (Sumitomo: Polyethylene / Permethrin) Quality Report Card

Destination	Benin	Benin	Benin	DR Congo	Kenya	Kenya	Madagascar	Madagascar	Madagascar	Madagascar	Rwanda
Number of Lots	7	8	6	4	21	6	13	40	8	1,120,000	388,000
Quantity	280,000	280,000	275,000	235,000	550,000	690,000	500,000	870,000	595,000		
Lot acceptance rate	100%	100%	100%	100%	100%	100%	100%	100%	100%		100%
Number lots rejected	0	0	0	0	0	0	0	0	0		0
Complaints	0	0	0	0	0	0	0	0	0		0
Quality investigations	0	0	0	0	0	0	0	0	0		0
COC Reviewed (100% complete)	12/22/08	3/4/09	8/21/09	12/18/09	5/8/09	2/23/10	10/9/09	1/13/10	5/11/10		2/23/10
Time in days required for pre-shipment physical inspection test reports	10	14	9	8	13	13	10	11	8		13
Time in days required for pre-shipment chemical inspection test reports	25	22	17	15	19	17	14	17	15		17
Time in days required from sampling to Certificate of Conformance (completion)	35	29	18	15	29	28	14	33	15		18
Time in days Certificate of Conformance completed after shipping date	19	22	3	2	20	20	0	13			18

LN's	Destination	Benin	Benin	Benin	DRC	Kenya	Kenya	Madagascar	Madagascar	Madagascar	Madagascar	Rwanda
LN Description		polyethylene, permethrin, 150 dn, 190x180x170 cm, blue	polyethylene, permethrin, 150 dn, 190x180x170 cm, blue	polyethylene, permethrin, 150 dn, 190x180x170 cm, blue	polyethylene, permethrin, 150 dn, (160x180x150cm), white, rectangular	polyethylene, permethrin, 150 dn, 160x180x150, blue, rectangular	polyethylene, permethrin, 150 dn, (FRENET), 150 dn, 160x190x210cm, blue, rectangular	polyethylene, permethrin, 150 dn, 190x180x150cm, rectangular, BLUE/WHITE	polyethylene, permethrin, 150 dn, 190x180x150cm, rectangular, blue/white	polyethylene, permethrin, 150dn, 190x180x150cm, white, rectangular	polyethylene, permethrin, 150dn, 190x180x150cm, white, rectangular	polyethylene, permethrin, 150dn, 1250x65x250cm), white, conical
Supplier		Sumitomo - Vietnam	Sumitomo - Vietnam	Sumitomo - Vietnam	Sumitomo - Vietnam	Sumitomo - VHI Tanzania	Sumitomo - China	Sumitomo - Vietnam	Sumitomo - China	Sumitomo - Vietnam	Sumitomo - VHI Tanzania	Sumitomo - Vietnam
Order number		CP-UP-9	CP-UP-9	CP-UP-9	PUP-299,300,301	PUP-171	PUP-297	PUP-264	PUP-307	PUP-357	PUP-358	PUP-298
Requisition Order		752	752	752	1570, 1571, 1572	1035	1569	RO-1408	RO-1611	1974	1974	1568
Contact Information		Vector Control Dept, tel: +81 5543 5622 hirooka@ssc.sumitom o-chem.co.jp	Vector Control Dept, tel: +81 5543 5622 hirooka@ssc.sumitom o-chem.co.jp	Vector Control Dept, tel: +81 5543 5622 hirooka@ssc.sumitom o-chem.co.jp	Atsuko Hirooka	Atsuko Hirooka	Atsuko Hirooka	Atsuko Hirooka	Atsuko Hirooka	Kenichi Doko, Asako Saito	Kenichi Doko, Asako Saito	Atsuko Hirooka

Shipping Information	Benin	Benin	Benin	DRC	Kenya	Kenya	Madagascar	Madagascar	Madagascar	Madagascar	Rwanda
Date Desired In-Country	Dec '08	early April	Sep '09	Feb '10	n/a	n/a	n/a	Mar '10	June '10	June '10	
Sampling date	11/17/08	2/3/09	8/3/09	12/3/09	4/9/09	1/26/10	9/25/09	12/11/09	4/26/10	4/27/10	2/5/10
Desired ship date	12/3/08	1/25/09			ships in 4 parts		10/9/09				
Actual ship date	12/3/08	2/10/09	8/18/09	12/20/09	4/18, 4/28, 5/8	2/16/10	10/9/09	12/31/09			2/5/10
Pre-shipment sampling to ship date	16	7	15	17	9		14				
Arrival date	1/7/09	3/6/09	9/26/09	2/26/10	4/22, 4/30, 5/8, 5/20	4/14/10	10/22/09	2/25/10			4/22/10
Arrival date -ship date	35	24	39	68	57	57	13	56			76

Shipment Inspections	Benin	Benin	Benin	DRC	Kenya	Kenya	Madagascar	Madagascar	Madagascar	Madagascar	Rwanda
Part 1 - document verification	Complies										
Part 2 - Visual Examination	Number of defects										
Holes in net	0	0	0	0	0	0	0	0	1	0	0
Stain (dirty net)	0	0	0	0	0	0	0	0	0	0	0
Incomplete hanging loop sewing	0	0	0	0	0	0	0	0	0	0	0
Loose Thread / Hole Broken	1	3	12	0	6	0	5	0	6	0	0
Plastic Bag damaged	0	0	0	0	0	0	0	0	0	0	0
Color-black dots on bottom	0	0	0	0	0	0	0	0	0	0	0
Net mis-shaped	4	4	0	0*	0	0	1 (Length)	1 knot	0	0	0
split seam	1	3	0	0	0	0	0	0	0	0	0

General Inspection Level I-AQL 2.5 (Based on sample size)	Acc 14/Rej 15	Acc 14/Rej 15	Acc 14/Rej 15	Acc 14/Rej 15	Acc 21/Rej 22	Acc 21/Rej 22	Acc 14/Rej 15	Acc 21/Rej 22	Acc 21/Rej 22	Acc 21/Rej 22	Acc 14/Rej 15
Total Defects	6	10	12	0	6	0	6	1	5	0	0
Number tested	315	315	315	315	500	500	315	500	500	500	315
% defective	2%	3%	4%	0%	1%	0%	2%	0%	1%	0%	0%

PHYSICAL TESTS	SPECIFICATION	Benin	Benin	Benin	DRC	Kenya	Kenya	Madagascar	Madagascar	Madagascar	Madagascar	Rwanda
Fibre Analysis	ISO 1833:1977/Routine	11/27/08	2/17/09	8/12/09	12/11/09	4/22/09	2/8/10	10/5/09	12/22/09	5/14/10	5/13/10	2/18/10
Fabrication	ISO 8388:1998/Routine/Warp knitted	polyethylene										
Mesh Size	ISO 7211:2:1984/Routine/5,28 holes per cm	12	12	11	15	12	12	12	11.63	12.36	10.70	11.78
Dimensional stability to washing	ISO 3759:1994/ISO 5077:ENISO 6330:200	-0.8	-0.8	-2.8	-1	-1.3	-0.7	-5	-2.2	-2.2	-1.2	-1.2
Netting burst strength	ISO 13938-2:1999 >250 min kPa	430	375	411	462	423	436	431	442	445	442	459
Denier	BS 5441:1998 cl 15 (for information only)	>576	>500	417	457	452	>570	426	444	435	425	456
Mass per unit area	ISO 3801:1977 for information only	429	>500	428	456	450	>570	424	437	417	417	416
		n/a	150	n/a	n/a	150	not tested					
		n/a	44	43	51	47	46	47	45	45	41	42

CHEMICAL TESTS	SPECIFICATION	Benin	Benin	Benin	DRC	Kenya	Kenya	Madagascar	Madagascar	Madagascar	Madagascar	Rwanda
Total permethrin content before wash	Within 25% of 2.0 %w/w (1.5-2.5 %w/w)	12/12/08	02/25/09	08/20/09	12/18/09	04/28/09	02/12/10	10/09/09	12/28/09	05/11/10	02/22/10	
Total permethrin content after two washes	Mean - %w/w (retention) > 80% of initial concentration	2.0	1.9	2.1	2.0	2.1	2.0	1.9	1.9	2.0	1.9	
Total permethrin content before wash + 20%	+20% concentration	2.4	2.3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Total permethrin content before wash - 20%	-20% concentration	1.6	1.5	-	-	-	-	-	-	-	-	

Lot Information	Benin	Benin	Benin	DRC	Kenya	Kenya	Madagascar	Madagascar	Madagascar	Madagascar	Rwanda
Lot number(s)	8223BC2	8Y14BA-1	8223BF1	8121WC2	8X07BA	D9813BC2P	7613BB	D9604WA2P	9223WC1		9201WB
Bold numbers tested by PSB	8303BF2	8Y14BA-3	9405BA	7901WE2	8X15BA	D9Y08BA2P	8616WB	D9604WA2P	9305WC1		
	8616BB	8Y15BA-1	9326BB	7225WE2	8Y07AD-6	D9Y02BB2P	8624WB	D9619WC2P	9902WB		
	8710BB	8Y15BA-3	9425BB	8110WE2	8Y13BA	D9X10BA2P	8708BB	D9624BB2P	9416WA		
	8909BB	8Y17BB-1	9519BB		8Y14BB	D9X05BB2P	8824WB	D9702BB2P	9326WA		
	8910BB	8Y17BB-2	9610BB		8Y15BB	D9Y09BC2P	9305WC1	D9703BC2P	9902WB		
	8919BB	8Y17BA-1	9611BB		8Y25BA	D9X11BB2P	9326WA	D9722WA2P	9809WB		
		8Y18BB-1	9611BB		8Y26BA	D9Y28BB2P	9414WA	D9723WC2P	9425WA		
		8Y14BA-2			8Y27AD-0		9417WA				
		8Y15BA-2			8Y27BA		9615BA				
		8Y17BA-2			8Y28BF1-4		9703BA				
		8Y17BB-3			8Z09BA		9719BA				
		8Y18BB-2			8Z11BA		9721BA				
		8Y18BB-3			8Z12BA						
					8Z13BA						
					8Z14BB						
					8Z15BB						
					8Z17BA						
					9107BB						
					9113BB						
					9128BB						
Cty	280,000	280,000	275,000	235,000	550,000	690,000	500,000	870,000	595,000		388,000
MFD	Aug-Nov '08	Jan '09	Jun '09	Apr/May '08	Feb-Apr '09	Dec '09	Aug '09	Aug/Sep '09	Jun-Oct '09		Jan '10
Status	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed

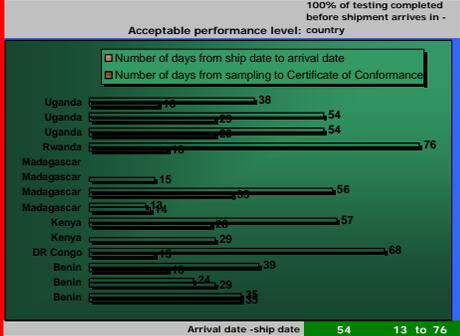
*39 nets outside 5% tolerance for dimensions. Shipment was accepted because it does not influence quality

LN (Sumitomo: Polyethylene /

Destination	Uganda	Uganda	Uganda
Number of Lots	14	9	4
Quantity	170,000	180,000	300,000
Lot acceptance rate	100%	100%	100%
Number lots rejected	0	0	0
Complaints	0	0	0
Quality investigations	0	0	0
COC Reviewed (100% complete)	3/28/08	3/28/08	11/4/09
Time in days required for pre-shipment physical inspection test reports	11	11	8
Time in days required for pre-shipment chemical inspection test reports	28	28	16
Time in days required from sampling to Certificate of Conformance (completion)	29	29	16
Time in days Certificate of Conformance completed after shipping date	14	14	-2

LN	TOTAL
Number of lots	145
Quantity	6,433,000
Lot acceptance rate	100%
Number lots rejected	0
Complaints	0
Quality investigations	0
% of LN shipments with pre-shipment reports available within 3 months	Acceptable performance level: >90% 100%
Time in days and range required for pre-shipment physical inspection test reports	Median: 11, Range: 8 to 14
Time in days and range required for pre-shipment chemical inspection test reports	17, 14 to 28
Time in days and range required from sampling to Certificate of Conformance (completion)	28, 14 to 35
Time in days Certificate of Conformance completed after shipping date	14, -2 to 22

Destination	Uganda	Uganda	Uganda
LN Description	polyethylene, permethrin, 150 denier, 160 x 180 x 150, white color	polyethylene, permethrin, 150 denier, 160 x 180 x 150, white color	polyethylene, permethrin, 150 dn, 160x180x150cm, blue, rectangular
Supplier	Sumitomo / VHI	Sumitomo / A to Z	Sumitomo-Vietnam
Order number	PO-PUP-38	PO-PUP-38	PUP-276
Requisition Order	108	108	1473
Contact Information			



Shipping Information	Uganda	Uganda	Uganda
Date Desired In-Country	Jan '08	Jan '08	Dec '09
Sampling date	2/28/08	2/28/08	10/19/09
Desired ship date	2/28/08	2/28/08	
Actual ship date	3/14/08	3/14/08	11/6/09
Pre-shipment sampling to ship date	15	15	18
Arrival date	5/7/08	5/7/08	12/14/09
Arrival date -ship date	54	54	38

Shipment Inspections	Uganda	Uganda	Uganda
Part 1 - document verification	Complies	Complies	Complies
Part 2- Visual Examination	Number of defects	Number of defects	Number of defects
Holes in net	0	0	0
Stain (dirty net)	0	0	0
Incomplete hanging loop sewing	0	0	0
Loose Thread / Hole Broken	1	3	5
Plastic Bag damaged	0	0	0
Color-black dots on bottom	0	0	0
Net mis-shaped split seam	0	0	1 (width)
	0	0	0

General Inspection Level I-AQL 2.5 (Based on sample size)	Uganda	Uganda	Uganda
Acc 14/Rej 15	Acc 14/Rej 15	Acc 14/Rej 15	Acc 14/Rej 15
Total Defects	1	3	6
Number tested	315	315	315
% defective	0%	1%	2%

PHYSICAL TESTS	SPECIFICATION	Uganda	Uganda	Uganda
Date of report		3/10/08	3/10/08	10/27/09
Fibre Analysis	ISO 1833:1977/Routine	polyethylene	polyethylene	polyethylene
Fabrication	ISO 8388:1998/Routine/Warp knitted			
Mesh Size	ISO 7211/2:1984/Routine/5.28 holes per cm	10	10	11
Dimensional stability to washing	ISO 3759:1994/ISO 5077/ENISO 6330:200	-2.5	-4.2	-1.5
	Weft	1.5	1.7	-0.5
Netting burst strength	ISO 13938-2:1999 >250 min kPa	432	430	411
	Inner seam	366	>560	>565
	Outer seam	388	419	405
Denier	BS 5441:1998 cl 15 (for information only)	150	150	not tested
Mass per unit area	ISO 3801:1977 for information only	49	48	45

CHEMICAL TESTS	SPECIFICATION	Uganda	Uganda	Uganda
Date of Report		03/27/08	03/27/08	11/04/09
Total permethrin content before wash	Within 25% of 2.0 %w/w (1.5-2.5 %w/w)	2.0	2.0	2.0
Total permethrin content after two washes	Mean - %w/w (retention) > 80% of initial concentration	2.0	2.0	n/a
Total permethrin content before wash + 20%	+20% concentration	2.4	2.4	-
Total permethrin content before wash - 20%	-20% concentration	1.6	1.6	-

Lot Information	Uganda	Uganda	Uganda
Lot number(s)	7917WE2-5	7802AD5	9728BB
Bold numbers tested by PSB	7917WE2-6	7731AD5	9729BB
	7927WE2-1	7Y09AD0	9820BA
	7927WE2-2	7X30AD0	9728BA
	7927WE2-3	7X27AD0	
	7X19AD0	7805AD0	
	7X29WE2-2	7Y02AD0	
	7X29WE2-3	7X25AD0	
	7X29WE2-4	7815AD0	
	7X29WE2-5		
	7X29WE2-6		
	7Y17WE2-2		
	7Y17WE2-4		
	7Z01AD4		
Qty	170,000	180,000	300,000
MFD	Nov '07-Feb '08	Nov '07-Jan '08	Sep '09
Status	Completed	Completed	Completed

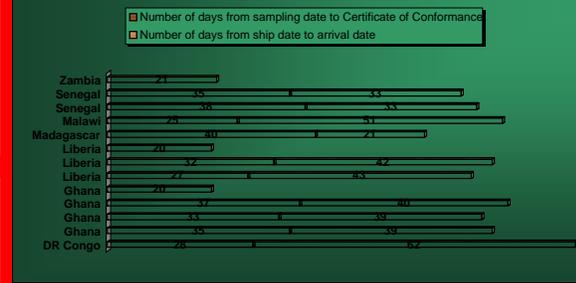
LNs (BASF: Polyester / Alpha-cypei)

Destination	Senegal	Senegal	Zambia
Number of Lots			1
Quantity	200,000	180,000	400,000
Lot acceptance rate	100%	100%	100%
Number lots rejected	0	0	0
Complaints	0	0	0
Quality investigations	1	0	0
COC Reviewed (100% complete)	5/7/09	5/18/09	3/25/10
Time in days required for pre-shipment physical inspection test reports	10	16	14
Time in days required for pre-shipment chemical inspection test reports	22	22	21
Time in days required from sampling to Certificate of Conformance (completion)	38	35	21
Time in days Certificate of Conformance completed after shipping date	20	20	-4

LNs		TOTAL	
Number of lots	66		
Quantity	4,031,500		
Lot acceptance rate	100%		
Number lots rejected	0		
Complaints	0		
Quality investigations	1		
% of LN shipments with pre-shipment reports available within 3 months	Acceptable performance level: >90%	100%	
Time in days and range required for pre-shipment physical inspection test reports	Median	13	10 to
Time in days and range required for pre-shipment chemical inspection test reports	Median	24	19 to
Time in days and range required from sampling to Certificate of Conformance (completion)	Median	28	20 to
Time in days Certificate of Conformance completed after shipping date	Median	7	6 to

Destination	Senegal	Senegal	Zambia
LN Description	polyester, alpha-cypermethrin, 75 dn, 190x180x170, white, rectangular	polyester, alpha-cypermethrin, 75 dn, 190x180x170, white, rectangular	polyester, alpha-cypermethrin, 75dn, 160x180x170cm, white, rectangular
Supplier	BASF-Thailand	BASF-Thailand	BASF-China
Order number	PUP-179	PUP-188	PUP-324
Requisition Order	1042	1061	1720
Contact Information	irene.barbitta@basf.com	irene.barbitta@basf.com	irene.barbitta@basf.com

100% of testing completed before shipment arrives in - country



Shipping Information			
	Senegal	Senegal	Zambia
Date Desired In-Country	mid May '09	end May '09	
Sampling date	3/30/09	4/13/09	3/4/10
Scheduled ship date	3/30/09	4/27/09	
Actual ship date	4/17/09	4/28/09	3/29/10
Pre-shipment sampling to ship date	18	15	
Arrival date	5/20/09	5/31/09	eta 6/6
Arrival date -ship date	33	33	

Arrival date -ship date 40 21 to

Shipment Inspections			
	Senegal	Senegal	Zambia
Part 1 - document verification	complies	complies	complies
Part 2- Visual Examination	Number of defects	Number of defects	Number of defects
Holes in net	0	1	0
Stain (dirty net)	3	2	0
Incomplete hanging loop sewing	0	0	0
Loose Thread / Hole Broken	0	0	0
Plastic Bag damaged	0	0	0
Color-black dots on bottom	0	0	0
Net mis-shaped split seam	2 (wrong size)	0	0
General Inspection Level I-AQL 2.5 (Based on sample size)	Acc 14/Rej 15	Acc 14/Rej 15	Acc 14/Rej 15
Total Defects	5	3	0
Number tested	315	315	315
% defective	2%	1%	0%

PHYSICAL TESTS			
SPECIFICATION	Senegal	Senegal	Zambia
Date of report	4/9/09	4/29/09	3/18/10
Fibre Analysis	ISO 1833:1977/Routine	polyester	polyester
Fabrication	ISO 8388:1998/Routine/Warp knitted	polyester	warp knitted
Mesh Size	ISO 7211/2:1984/Routine/24 holes cm2-Min	28	27
Dimensional stability to washing	ISO 3759:1994/ISO 5077/ENISO 6330:2001-warp Weft	0.0	1.3
Netting burst strength	ISO 13938-2:1999 >250 min kPa	-0.2	-3.2
		355	425
		330	462
		301	381
Denier	BS 5441:1998 cl 15 (for Information only-as declared)	75	75
Mass per unit area	ISO 3801:1977 for information only -PSB	33	30

CHEMICAL TESTS			
SPECIFICATION	Senegal	Senegal	Zambia
Date of Report	4/21/09	5/5/09	3/25/10
Total alpha-cypermethrin content before wash	Within 25% of 200 mg/m2 (150-250 mg/m2)	203	233
Total alpha-cypermethrin content after two	For information only	n/a	n/a

Lot Information			
	Senegal	Senegal	Zambia
Lot number(s)	0107605 0407601 0724	0409004 0209001 0282	4560939529
Bold numbers tested by PSB	0107904 0408004 0800	0209205 0109403 0120	
	0307602 0407605 0382	0209401 0209501 0375	
	0408305 0108404 0089	0209101 0409301 0317	
	0408303 0108301 0535	0308802 0308905 0083	
	0408104 0053		
	0408401 1142		
	0407105 0922		
Qty	200,000	180,000	400,000
MFD	Mar '09	Mar/Apr '09	Feb '10
Comments	Completed	Completed	Completed

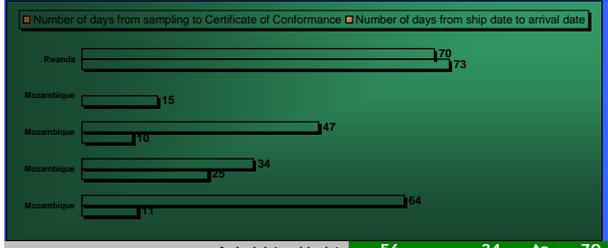
LNs (Bestnet: Polyethylene / Deltamethrin) - Quality Report Card

Destination		Mozambique	Mozambique	Mozambique	Mozambique	Rwanda
Number of Lots		1	1	1	1	1
Quantity		112,400	293,800	93,800	260,000	550,000
Lot acceptance rate		100%	100%	100%	100%	100%
Number lots rejected		0	0	0	0	0
Complaints		0	0	0	0	0
Quality investigations		0	0	0	0	0
COC Reviewed (100% complete)		7/17/09	8/18/09	7/17/09	2/26/10	12/22/08
Time in days required for pre-shipment physical inspection test reports		11	11	10	13	20
Time in days required for pre-shipment chemical inspection test reports		11	13	10	12	36
Time in days required from sampling to Certificate of Conformance (completion)		11	25	10	15	73
Time in days Certificate of Conformance completed after shipping date		-6	9	6	8	45
LNS	Destination	Mozambique / Nampula	Mozambique / Beira	Mozambique / Maputo	Mozambique	Rwanda
LN Description		polyethylene, deltamethrin, 115 denier, 160x180x210 light blue, rectangular	polyethylene, deltamethrin, 115 denier, 160x180x210 light blue, rectangular	polyethylene, deltamethrin, 115 denier, 160x180x210 light blue, rectangular	polyethylene, deltamethrin, 115 dn, 160x180x210cm, light blue, rectangular	polyethylene, deltamethrin, 100dn, 190x180x150, blue, rectangular
Supplier		Bestnet Europe / KRT	Bestnet Europe / KRT	Bestnet Europe / KRT	Bestnet Europe / KRT	Bestnet Europe / KRT
Order number		PUP-205	PUP-206	PUP-207	PUP-325/326	PO-PUP-65
Requisition Order		1196	1197	1198	1699/1700	114
Contact Information		Trine Sig, +44 2088 168 315 ts@intection.com	Trine Sig, +44 2088 168 315 ts@intection.com	Trine Sig, +44 2088 168 315 ts@intection.com	Trine Sig	Trine Sig, +44 2088 168 315 ts@intection.com
Shipping Information						
Date Desired In-Country		Aug '09	Sep '09	Aug '09		Nov '08
Sampling date		7/6/09	7/24/09	7/7/09	2/11/10	10/10/08
Desired ship date		6/25/09	6/25/09	6/25/09		6/15/08
Actual ship date		7/23/09	8/9/09	7/23/09	2/18/10	11/7/08
Pre-shipment sampling to ship date						28
Arrival date		9/25/2009	9/12/2009	9/8/2009	est 4/14/10	1/16/2009
Arrival date -ship date		64	34	47		70
Shipment Inspections						
Part 1 - document verification		Complies	Complies	Complies	Complies	Complies
Part 2 - Visual Examination		Number of defects	Number of defects	Number of defects	Number of defects	Number of defects
Holes in net		0	0	0	0	10
Stain (dirty net)		0	0	0	0	0
Incomplete hanging loop sewing		0	0	0	0	0
Loose Thread / Hole Broken		0	3 yarn joint	0	0	0
Plastic Bag damaged		0	0	0	0	0
Color-black dots on bottom		0	0	0	0	0
Net mis-shaped		0	6 under or oversized	0	0	0
split seam		0	0	0	0	0
General Inspection Level I-AQL 2.5 (Based on sample size)		Acc 10/Rej 11	Acc 14/Rej 15	Acc 10/Rej 11	Acc 14/Rej 15	Acc 21/ Rej 22
Total Defects		0	9	0	0	10
Number tested		200	315	200	315	500
% defective		0%	3%	0%	0%	2%
PHYSICAL TESTS						
SPECIFICATION		Mozambique	Mozambique	Mozambique	Mozambique	Rwanda
Date of report		7/17/09	8/4/09	7/17/09	2/24/10	10/30/08
Fibre Analysis	ISO 1833:1977/Routine	not reported	not reported	not reported	poluethylene	polyethylene
Fabrication	ISO 8388:1998/Routine/Warp knitted	not reported	not reported	not reported	not reported	not reported
Mesh Size	ISO 7211/2:1984/Routine/21 or 36 holes per cm2	25	30	24	182/inch2	28
Dimensional stability to washing	ISO 3759:1994/ISO 5077/ENISO 6330:2001-warp	0.8	-1.0	-0.7	0.2	-0.7
	Welf	-2.8	-3.3	-3.7	-1.8	-2.5
Netting burst strength	ISO 13938-2:1999 >250 min kPa	364	458	447	430	340
	Inner seam	>580	>590	>580	>570	>460
	Outer seam	>580	>590	>580	>570	>460
Denier	BS 5441:1998 cl 15 (for information only)	not reported	not reported	not reported	not reported	100
Mass per unit area	ISO 3801:1977 for information only	not reported	not reported	not reported	39	41
CHEMICAL TESTS						
SPECIFICATION		Mozambique	Mozambique	Mozambique	Mozambique	Rwanda
Date of Report		07/17/09	08/06/09	07/17/09	02/23/10	11/15/08
Total deltamethrin content before wash	Within 25% of 1.8 g/kg (1.35-2.25)	1.6	1.6	1.6	1.7	1.8
Lot Information						
SPECIFICATION		Mozambique	Mozambique	Mozambique	Mozambique	Rwanda
Lot number(s)		1 81512 117	1 92703 118	1 81512 117	1 92712 147	1 82102 020
Bold numbers tested by lab						
Qty		112,400	293,800	93,800	260,000	550,000
MFD		May '09	Jun '09	May '09	Jan '10	Mar-May '08
Status		Completed	Completed	Completed	Completed	Completed
		Chemical testing by POC	Chemical testing by POC	Chemical testing by POC	Chemical testing by POC	Deltamethrin content from CoA

LN's		TOTAL
Number of lots		5
Quantity		1,310,000
Lot acceptance rate		100%
Number lots rejected		0
Complaints		0
Quality investigations		0

	Acceptable performance level: >90%	100%	
	Median	Range	
% of LN shipments with pre-shipment reports available within 3 months			
Time in days and range required for pre-shipment physical inspection test reports	11	10	to 20
Time in days and range required for pre-shipment chemical inspection test reports	12	10	to 36
Time in days and range required from sampling to Certificate of Conformance (completion)	15	10	to 73
Time in days Certificate of Conformance completed after shipping date	8	6	to 45

Acceptable performance level: 100% of testing completed before shipment arrives in - country



Arrival date -ship date 56 34 to 70

Note - Rwanda delayed in testing due to Bestnet's Deltamethrin with Polyethylene test procedure not available to testing lab. Manufacturers method used.

RDTs- Quality Report Card

Destination	Angola	Angola	Angola	Angola	Burkina Faso	Ethiopia
Number of lots	4	8	12	8	3	2
Quantity	375,000	375,000	600,000	380,000	950,000	410,000
Lot acceptance rate	100%	100%	100%		100%	100%
Number lots rejected	0	0	0		0	0
Complaints	0	0	0		0	0
Quality investigations	0	0	0		0	0
COC reviewed	7/28/08	9/4/08	6/1/09		4/29/10	9/1/09
Time in days from sampling to COC	13	22	27		9	12
Quarterly test reports available the following quarter	100%	100%	100%			100%
Destination	Angola	Angola	Angola	Angola	Burkina Faso	Ethiopia
Product	Paracheck Pf	Paracheck Pf	Paracheck Pf	Paracheck Pf	SD Bioline	CareStart Combo
Supplier	Orchid	Orchid	Orchid	Orchid	Standard Diagnostics	AccessBio
Purchase Order number		PO-PUP-84	PUP-193	PUP-356	PUP-347	PUC-244
Requisition number	91	568	1090	1972	1906	1380
Contact information			orchid@tulipgroup.com	N.Sriram@tulip@sanchemet.in	Phillipe Kang phillipe@standardia.com	Jaean Jung: jajung@accessbio.net

Shipping Information

Date desired in-country	Mid Jan 08	Jun 08	March '09	May '10	Apr '10	Sep '09
Sampling date / Samples sent	7/15/08	8/13/08	5/5/09	5/10/10	4/20/10	8/20/09
Desired ship date	3/29/08	6/19/08				
Actual ship date	3/26/08	6/19/08	1st: est 4/11 2nd: 4/22/09		wk 5/3	9/5/09
Actual ship date - Desired ship date	-3	0				
Arrival date	4/10/08	6/26/08	1st: 4/17/09, 2nd: 4/29/09			9/11/09
Arrival date - Ship date	15	7	6,7			6

Shipment Inspections

Date of post-shipment inspection (after July 09: Pre-shipment)	n/a	n/a	n/a	5/10/10	4/20/10	n/a
Sampling contact	UPS	UPS	Chris Warren - sampling by Angomedica	Crown Agents	Crown Agents	Jaean Jung@jajung@accessbio.net
Post-shipment inspection summary After July '09: Pre-shipment)	waived	absence of DELIVER person in-country. WPRO conducted visual inspection along with testing	not conducted due to absence of DELIVER person in-country	complies	n/a	n/a
Date of WPRO report	7/23/08	8/28/08	5/28/09			8/31/09

WHO-WPRO POST SHIPMENT TESTING

WPRO lab reference number	RITM	RITM	IPC	IPC	RITM	IPC
Initial test date	pass, good blood clearing	pass, poor blood clearing	pass		pass	pass
3 month test date	7/23/08	8/28/08	5/28/09		4/29/10	8/28/09
6 month test date	10/23/08	12/5/08	8/29/09		Jul	11/28/09
9 month test date	1/28/09	2/27/09	11/29/09			pass
12 month test date	4/30/09	5/27/09	2/27/10			2/27/10
15 month test date	pass	pass				May
18 month test date	7/27/09	8/27/09	May			
21 month test date	pass	pass				
21 month test date	11/8/09	11/28/09				
21 month test date	not tested	pass				
21 month test date	EXPIRED	3/8/10				
21 month test date		EXPIRED				

Lot Information

Lot number(s)	021328	31308	31595	31850	82040	G191R
	021329	31310	31596	31851	82041	G291R
	021330	31311	31597	31852	82042	
	021331	31314	31598	31853		
		31315	31599	31855		
		31316	31600	31856		
		31322	31602	31859		
		31323	31603	31860		
			31605			
			31606			
			31608			
			31609			
Lot numbers verified with Deliver website	yes	yes	no lot numbers			H91R
Quantity	375,000	375,000	600,000	380,000	950,000	410,000
Mfd Date	n/a	n/a	n/a			
Exp Date	Feb 2010	May 2010	December 2010	Mar '12	Feb-Mar '12	June 2011
Status	Completed	Completed	Completed	Being tested	Completed	Completed

RDTs- Quality Report Card

Destination	Ethiopia	Ethiopia	Ghana	Liberia	Liberia	Madagascar
Number of lots	1	2	1	9	9	1
Quantity	410,000	860,000	74,000	425,000	425,000	120,000
Lot acceptance rate	100%	100%	100%	100%	100%	100%
Number lots rejected	0	0	0	0	0	0
Complaints	0	0	0	0	0	0
Quality investigations	0	0	0	0	0	0

COC reviewed	9/22/09	2/25/10	9/1/09	5/18/09	7/29/09	4/27/10
Time in days from sampling to COC	13	14	12	33	13	5
Quarterly test reports available the following quarter	100%		100%	100%	100%	

Destination	Ethiopia	Ethiopia	Ghana	Liberia	Liberia	Madagascar
Product	CareStart Combo	CareStart Combo	CareStart HRP2	Paracheck	Paracheck	SD Bioline Combo
Supplier	AccessBio	Access Bio	AccessBio	Orchid	Orchid	Standard Diagnostics
Purchase Order number	PUC-245	PUP-321	PUP-255	PUC-159	PUC-160	PUP-353
Requisition number	1392	1710	1379	1062	1062	1950
Contact information	Jaeen Jung: jajung@accessbio.net	Jaeen Jung: jajung@accessbio.net	Jaeen Jung: jajung@accessbio.net	Avinash Tulaskar: orchid@tulipgroup.com	Avinash Tulaskar: orchid@tulipgroup.com	Phillipe Kang: phillipe@standardia.com

Shipping Information

Date desired in-country	Nov '09	Not stated	Sep '09	Mar '09	Aug '09	April '10
Sampling date / Samples sent	9/9/09	2/11/10	8/20/09	4/15/09	7/16/09	4/22/10
Desired ship date				3/23/09		
Actual ship date	10/2/09	3/6/10	9/16/09	3/23/09	8/12/09	
Actual ship date - Desired ship date				0		
Arrival date	10/12/09	3/15/10	9/18/09	3/25/09	8/17/09	eta 5/7
Arrival date - Ship date	10	9		2	5	

Shipment Inspections

Date of post-shipment inspection (after July 09: Pre-shipment)	n/a	n.a	n/a	4/15/09	7/17/09	4/22/10
Sampling contact	Jaeen Jung: jajung@accessbio.net	Jaeen Jung: jajung@accessbio.net	Jaeen Jung: jajung@accessbio.net	Cornelius Pearce sannellus@yahoo.ca	Crown Agents	Crown Agents
Post-shipment inspection summary After July '09: Pre-shipment)	n/a	n/a	n/a	complies	complies	complies
Date of WPRO report	9/15/09	2/17/10	8/31/09	5/12/09	7/28/09	4/27/10

WHO-WPRO POST SHIPMENT TESTING

WPRO lab reference number	IPC	IPC	IPC-39-H19-0m	RITM	IPC-34-0m	IPC
Initial test date	pass 9/14/09	pass 2/16/10	pass 8/28/09	pass, poor blood clearing 5/8/09	pass 7/27/09	pass 4/27/10
3 month test date	pass 12/14/09	pass 5/13/10	pass 11/28/09	pass, poor blood clearing 8/10/09	pass 10/27/09	Jul
6 month test date	pass 3/12/10	Aug	pass 2/27/10	pass, some malfunction* 11/8/09	pass 1/27/10	
9 month test date			pass May	pass 2/8/10	pass 4/27/10	
12 month test date				pass 5/13/10		
15 month test date					Jul	
18 month test date				Aug		
21 month test date						

Lot Information

Lot number(s)	H19IR	A10IR A50IR	H19IO	31584 31585 31586 31587 31588 31589 31590 31591 31593	31625 31626 31628 31629 31630 31632 31633 31634 31635	90028
Lot numbers verified with Deliver website	G19IR		yes	yes	yes	
Quantity	410,000	860,000	74,000	425,000	425,000	120,000
Mfd Date				Jan '09		
Exp Date	July 2011	Dec-11	July 2011	Dec '10	Jan '11	Mar '12
Status	Completed	Completed	Completed	Completed <small>0 months of samples lots 31584, 31585 malfunctioned: blood and buffer did not run completely through the strip, some</small>	Completed	Completed

RDTs- Quality Report Card

Destination	Mali	Mali	Tanzania-Mainland	Tanzania-Mainland	Tanzania-Mainland	Tanzania-Mainland
Number of lots	1	1	4	5	4	10
Quantity	10,000	20,000	225,000	250,000	250,000	750,000
Lot acceptance rate	100%	100%	100%	100%	100%	100%
Number lots rejected	0	0	0	0	0	0
Complaints	0	0	0	0	0	0
Quality investigations	0	0	0	0	0	0
COC reviewed	5/21/09	10/19/09	1/5/09	2/4/09	2/3/09	8/21/09
Time in days from sampling to COC	48	7	46	50	28	15
Quarterly test reports available the following quarter	100%	100%	100%	100%	100%	100%
Destination	Mali	Mali	Tanzania-Mainland	Tanzania-Mainland	Tanzania-Mainland	Tanzania-Mainland
Product	Paracheck Pf	Paracheck Pf	Malaria Pf	Paracheck Pf	Parahit	ICT
Supplier	Orchid	Orchid	ICT	Orchid	Span	Vision Biotech
Purchase Order number	PUP-178	PUP-278	PO-PUP-131			PUP-250
Requisition number	1041	1479	882	882	882	1376
Contact information	N. Sriram tulip@sancharnet.in	N. Sriram tulip@sancharnet.in	Russell Glanz, russellag@icon.co.za			Russell Glanz, russellag@icon.co.za
Shipping Information						
Date desired in-country		Oct '09	n/a	n/a	n/a	
Sampling date / Samples sent	4/3/09	10/12/09	11/20/08	12/16/08	1/6/09	8/6/09
Desired ship date	3/15/09		10/23/08	11/4/08	11/17/08	
Actual ship date	3/7/09	10/22/09	10/23/08	11/4/08	11/17/08	9/2/09
Actual ship date - Desired ship date	-8		0	0	0	
Arrival date	3/10/09	10/28/09	11/3/08	11/24/08	12/15/08	9/10/09
Arrival date - Ship date	3	6	11	20	28	8
Shipment Inspections						
Date of post-shipment inspection (after July 09: Pre-shipment)	4/3/09	10/12/09	11/26/08	12/16/08	1/6/08	8/7/09
Sampling contact	Enias Baganizi abaganize@usaid.gov	Crown Agents	susan_duberstein@jsi.com trosche@jsi.co.tz	susan_duberstein@jsi.com trosche@jsi.co.tz	susan_duberstein@jsi.com trosche@jsi.co.tz	Vision Biotech, Andreas.bohms@invmed.com
Post-shipment inspection summary After July '09: Pre-shipment)	complies	complies	complies	complies	complies	EHRNI: samples appear to be in good condition on receipt
Date of WPRO report	5/7/09		12/17/08	1/6/09	1/21/09	
WHO-WPRO POST SHIPMENT TESTING						
WPRO lab reference number	IPC	IPC	RITM	IPC	RITM	EHRNI
		IPC-57-0m			RI-0002-41382	EHRNI-11-32432-0m
Initial	pass	pass	pass	pass	pass	pass
test date	5/7/09	10/19/09	12/17/08	1/6/09	1/15/09	8/19/09
3 month	pass	pass	pass	pass	pass	pass
test date	8/7/09	1/19/10	3/17/09	4/6/09	4/28/09	11/20/09
6 month	pass	pass	pass	pass	pass	pass
test date	11/10/09	4/19/10	6/25/09	7/6/09	7/15/09	2/19/10
9 month	pass		pass	pass	pass	
test date	2/7/10	Jul	9/17/09	10/6/09	10/15/09	May
12 month	pass		pass	pass	pass	
test date	5/12/10		12/18/09	1/6/10	1/18/10	
15 month			pass	pass	pass	
test date	Aug		3/17/10	4/6/10	4/20/10	
18 month						
test date			Jun	Jul	Jul	
21 month						
test date						
Lot Information						
Lot number(s)	31545	31726	32068	31496	4000001382	32432
			32069	31497	4000001384	32441
			32095	31498	4000001386	32442
			32087	31499	4000001387	32446
				31500		32452
						32464
						32477
						32483
						32490
						32495
Lot numbers verified with Deliver website	yes	yes	yes	yes	yes	
Quantity	10,000	20,000	225,000	250,000	250,000	750,000
Mfd Date	Nov '08		Aug/Sep 08	n/a	n/a	
Exp Date	Oct '10	Aug '11	Aug/Sep 2010	Sep '10	10/9/2010	Jun '11
Status	Completed	Completed	Completed	Completed	Completed	Completed

storage and lot information
on boxes indicated unclear

RDTs- Quality Report Card

Destination	Tanzania-UNHCR	Tanzania-Zanzibar	Tanzania-Zanzibar	Tanzania-Zanzibar	Tanzania-Zanzibar (Replacement lots)	Field Sampling Tanzania
Number of lots	8	3	2	2	2	11
Quantity	350,000	150,000	100,000	100,000	100,000	n/a
Lot acceptance rate	100%	100%	100%	100%	100%	100%
Number lots rejected	0	0	0	0	0	0
Complaints	0	0	0	1	0	0
Quality investigations	0	0	0	1	0	0
COC reviewed	6/17/08	10/31/07	3/26/09	7/29/09	11/24/09	n/a
Time in days from sampling to COC	35	15	20	13	5	n/a
Quarterly test reports available the following quarter	100%	100%	100%	100%	100%	n/a

Destination	Tanzania-UNHCR	Tanzania-Zanzibar	Tanzania-Zanzibar	Tanzania-Zanzibar	Tanzania-Zanzibar	Field Sampling Tanzania
Product	Paracheck Pf	Paracheck Pf	Paracheck Pf	Paracheck Pf	Paracheck Pf	Paracheck Pf
Supplier	Orchid	Orchid	Orchid	Orchid	Orchid	Orchid
Purchase Order number	PUP-51/1	PO-P-23	PUC-144	PUC-145	PUC-145 (Replacement)	
Requisition number	107	48	1037	1037	1037	
Contact information		Mr. Avinash Tulaskar, orchid@tulipgroup.com				

Shipping Information

Date desired in-country	Feb 08	ASAP	Mar '09	Aug '09		
Sampling date / Samples sent	5/13/08	10/16/07	3/6/09	7/16/09	11/19/09	
Desired ship date	4/27/08	9/21/07	2/26/09			
Actual ship date	4/28/08	9/21/07	2/26/09	8/12/09		n/a
Actual ship date - Desired ship date	1	0	0			
Arrival date	5/1/08	10/3/07	3/3/09	8/18/09		n/a
Arrival date - Ship date	3	12	5	6		

Shipment Inspections

Date of post-shipment inspection (after July 09: Pre-shipment)	5/13/08 Rosche	10/16/07 Rosche	3/9/09 Rosche	7/17/09	11/19/09	n/a
Sampling contact	susan_duberstein@jsi.com trosche@jsi.co.tz	susan_duberstein@jsi.com trosche@jsi.co.tz	susan_duberstein@jsi.com trosche@jsi.co.tz	Crown Agents	Crown Agents	Susan Duberstein
Post-shipment inspection summary After July '09: Pre-shipment)	complies	complies	complies	complies	complies	n/a
Date of WPRO report	6/2/08	10/24/07	3/19/09	7/28/09	11/24/09	7/17/09

WHO-WPRO POST SHIPMENT TESTING

WPRO lab reference number	IPC	IPC	RITM	IPC	IPC-70-0m	EHNRI
Initial	pass	pass	pass	pass	pass	pass
test date	5/31/08	10/23/07	3/18/09	7/27/09	11/24/09	7/7/09
3 month	pass	pass	pass	pass	pass	
test date	9/1/08	1/28/08	6/25/09	10/27/09	2/24/10	n/a
6 month	pass	pass	pass	pass		
test date	11/29/08	4/25/08	9/28/09	1/27/10	May	
9 month	pass	pass	pass	pass		
test date	2/28/09	7/29/08	12/23/09	4/27/10		
12 month	pass	pass	pass			
test date	5/28/09	10/24/08	3/18/10	Jul		
15 month	pass	pass				
test date	8/28/09	1/26/09	Jun			
18 month	pass*	pass				
test date	11/28/09	4/26/09				
21 month	pass	pass				
test date	2/27/10	7/25/09				

Lot Information

Lot number(s)	31174 31175 31177 31178 31179 31180 31181 31182	31987 31989 31995	31549 31550	021344 021346	31766 31767	31178 31987 31179 31549 31182 31177 31175 31174 31550 31181 31180
Lot numbers verified with Deliver website	yes	yes	yes			
Quantity	350,000	150,000	100,000	100,000	100,000	n/a
Mfd Date	n/a	Sep 2007	Dec 2008			
Exp Date	Mar 2010	Aug 2009	November 2010	May '11	Oct '11	
Status	Completed	Completed	Completed	Part 2		Completed

Field sampling: samples of all 8 lots sent to lab - passed

Field sampling: samples lot 31987 sent to lab - passed

Field sampling: samples both lots sent to lab - passed

9/29/09: Complaint from the field about lot 021344: False positives

Replacement lots

RDTs- Quality Report Card

Destination	Zambia	Zambia	Zambia	Zambia	Zambia
Number of lots	51	10	9	10	11
Quantity	979,000	660,000	625,000	625,000	820,000
Lot acceptance rate	100%	100%	100%	100%	100%
Number lots rejected	0	0	0	0	0
Complaints	0	0	0	0	0
Quality investigations	0	0	0	0	0
COC reviewed	3/6/08	4/30/09	7/27/09	9/9/09	11/24/09
Time in days from sampling to COC	56	51	21	8	8
Quarterly test reports available the following quarter	100%	100%	100%	100%	100%
Destination	Zambia	Zambia	Zambia	Zambi	Zambia
Product	Malaria Pf	Malaria Pf	Malaria Pf	Malaria Pf	Malaria Pf
Supplier	ICT	ICT	ICT	ICT	ICT
Purchase Order number	PO-PUP-37	PO-PUP-157	PO-PUP-217	PO-PUP-218	PO-PUP-296
Requisition number	77	990	1313	1314	1516
Contact information		Russell Glanz, russellag@icon.co.za	Russell Glanz, russellag@icon.co.za	Russell Glanz, russellag@icon.co.za	Russell Glanz, russellag@icon.co.za
Shipping Information					
Date desired in-country	ASAP	early 2009	Jul '09	Sep '09	
Sampling date / Samples sent	1/10/08	3/10/09	7/6/09	9/1/09	11/16/09
Desired ship date	12/28/07	2/6/09			
Actual ship date	12/31/07	2/20/09	7/24/09	9/11/09	12/3/09
Actual ship date - Desired ship date	3	14			
Arrival date	1/7/08	2/25/09	7/29/09	9/17/09	12/8/09
Arrival date - Ship date	7	5	5	6	
Shipment Inspections					
Date of post-shipment inspection (after July 09: Pre-shipment)	1/10/08	3/10/09	7/6/09		n/a
Sampling contact	Farouk Umaru fumaru@jsi.co.zm	Rabson Zyambo RZyambo@jsi.co.zm	Crown Agents	chantel.lamon@telkomsa.net	chantel.lamon@telkomsa.net
Post-shipment inspection summary After July '09: Pre-shipment)	complies	complies	complies	n/a	n/a
Date of WPRO report	3/4/08	4/20/09	7/15/09	9/8/09	11/24/09
WHO-WPRO POST SHIPMENT TESTING					
WPRO lab reference number	RITM	RITM	EHNRI	IPC	IPC
Initial	pass	pass	pass	pass	pass
test date	3/3/08	4/16/09	7/14/09	9/8/09	11/24/09
3 month	pass	pass	pass	pass	pass
test date	6/26/08	7/16/09	10/18/09	12/8/09	2/24/10
6 month	pass	pass*	pass	pass	
test date	9/12/08	10/16/09	1/18/10	3/9/10	May
9 month	pass	pass	pass		
test date	12/18/08	1/18/10	4/16/10	Jun	
12 month	pass	pass			
test date	3/4/09	4/16/10	Jul		
15 month	pass				
test date	6/28/09	Jul			
18 month					
test date	EXPIRED				
21 month					
test date					
Lot Information					
Lot number(s)	20 groups-51 lots	10 lots	9 lots	32495	32577
1 - 31247		32257	32345	32507	32589
2 - 31324, 31325		32170	32362	32508	32598
3 - 31331		32147	32373	32519	32610
4 - 31337, 31340, 31341, 31344, 31345		32248	32379	32520	32618
5 - 31381, 31383		32204	32388	32529	32630
6 - 31398		32219	32390	32530	32632
7 - 31400, 31408, 31409, 31412, 31413		32238	32400	32535	32639
8 - 31414, 31416, 31417		32241	32402	32536	32642
9 - 31422		32234	32409	32543	32657
10 - 31423, 31432		32274			32664
11 - 31439, 31440, 31443					
12 - 31454, 31458, 31460, 31468, 31470, 31474					
13 - 31501, 31510					
14 - 31524, 31528, 31532, 31538					
15 - 31563					
16 - 31566, 31567, 31568, 31569					
17 - 31582, 31589, 31591, 31593					
18 - 31599, 31601					
19 - 31646					
20 - 31662					
Lot numbers verified with Deliver website	yes	yes			
Quantity	979,000	660,000	625,000	625,000	820,000
Mfd Date	n/a	Jan/Feb '09			
Exp Date	May-Oct 2009	Jan/Feb '11	May/June '11	Jul/Aug '11	Oct/Nov '11
Status	Completed	Completed	Completed	Completed	Completed
		6 months: Lot 32241, 1/8 samples gave invalid result. New sample passed retest			
		9 months: Lot 32170, 1/8 samples gave invalid result. New sample passed retest			

SP									
Destination Product	Benin SP	Benin SP	Ghana SP	Kenya SP	Kenya SP	Liberia SP	Mali SP	Zambia SP	
MANUF	IPCA	IPCA	Medopharm	IPCA	IPCA	Micro Labs	Medreich	Medopharm	
FDA/SRA									
WHO Pre GF									
Wholesaler	Unicef	Unicef	IDA	MissionPharm	Missionpharm	IDA	Unicef	Missionpharma	
QA	Non-Conc.	Concurrent	non-concurrent	Non-Conc.	Non-conc	Concurrent	Concurrent	Non-concurrent	

Number of Lots	4	3		2	3	1	7	2	
Quantity	1,200,000	1,100,000	10,000,000	840,000	1,680,000	236,000	3,000,000	2,000,000	
Lot acceptance rate	100%	100%		100%	100%	100%	100%	100%	
Number lots rejected	0	0		0	0	0	0	0	
Complaints	0	0		0	0	0	0	0	
Quality investigations	0	0		0	0	0	1	0	

SP	Total
Number of Lots	22
Quantity	20,056,000
Lot acceptance rate	100%
Number lots rejected	0
Complaints	0
Quality investigations	1

COC Reviewed (100% complete)	3/10/08	6/9/08		6/18/09	12/4/09	3/16/09	3/30/09	2/8/10	
Shipment	40*	8		25	22	n/a	2	39	
Time in days required for pre-shipment chemical inspection test reports	37*	35		17	13	n/a	23	30	
Time in days required from sampling to Certificate of Conformance (completion)	54*	39		17	14	n/a	34	30	

% of SP shipments with pre-shipment reports available	Acceptable performance level: >90%	100%
Time in days from Sampling to Shipment	Median	Range
	22	2 to 39
Time in days required for pre-shipment chemical inspection test reports	23	13 to 35
Time in days required from sampling to Certificate of Conformance (completion)	30	14 to 39

Pharmaceutical Drugs									
Product	Benin SP	Benin SP	Ghana SP	Kenya SP	Kenya SP	Liberia SP	Mali SP	Zambia SP	
Supplier	Unicef	Unicef	IDA	MissionPharma	Missionpharma	IDA	Unicef	Missionpharma	
Manufacturer	IPCA	IPCA	Medopharm	IPCA	IPCA	Micro Labs	Medreich	Medopharm	
Order number		PO-PUP-69/1	PUP-366	PUP-197	PUP-279	PUP-167/1	PUP-137	PUP-304	
Requisition number	111	467	2074	1106	1491	1019	917	1578	
Contact information		(no name) (4b) 35 27 35 27 psid@unicef.org	Mark Oud	Jens Rasmussen	Jens Rasmussen	moud@idafoundation.org	(no name) (45) 35 27 35 psid@unicef.org	Jens Rasmussen	

* The first Benin order followed the initial QA policy of waiting for all test results to be completed before shipment and is not included in the calculations.

Shipping Information									
	Benin	Benin	Ghana	Kenya	Kenya	Liberia	Mali	Zambia	
Date desired in-country	Nov '07	n/a		end May '09	Dec '09	Feb '09	Beginning Jan '09		
Sampling Date	1/16/08	5/1/08		6/1/09	11/20/09	IDA/Vimta	2/24/09	1/9/10	
Desired ship date	2/25/08	5/9/08		5/15/09					
Actual ship date	2/25/08	5/9/08		6/26/09	12/12/09	3/26/09	2/26/09	2/17/10	
Sampling Date to Ship Date	40	8					2		
Arrival date	3/3/08	5/16/08		6/28/09	12/13/09	3/27/09	3/1/09	2/19/10	
Arrival date - ship date	7	7		2		1	3		

Acceptable performance level: 0-30? Arrival date -ship date 3 1 to 7

Lot Information									
	Benin	Benin	Ghana	Kenya	Kenya	Liberia	Mali	Zambia	
Date chemical test report	2/22/2008	6/5/08		6/18/09	12/3/09	2/9/09	3/19/09	2/8/10	
Lab	USP	NW		NW	NW	Vimta	NW	NW	
Lot number(s)	GG7008F	GG7014F		PP9001R	PP9003R	SPIH0081	380273	9ML159	
	GG7009F	GG8004F		PP9002R	PP9004R		380274	9ML160	
	GG7013F	GG8008F			PP9005R		380299		
	GG7017F						380300		
							380300		
							380301		
							390051		
							390052		
Quantity	1,200,000	1,100,000	10,000,000	840,000	1,680,000	236,000	3,000,000	2,000,000	
Mfd Date	Aug 2007	Aug 2007/Jan 2008		May '09	Nov '09	Sep '07	Sep '08/ Jan '09	Dec '09	
Exp Date	Jul 2009	Jul 2010/Dec 2010		April '12	Oct '12	Aug '11	Sep '11/ Jan '12	Nov '11	
Status	Completed	Completed	Ordered	Completed	Completed	Completed	Completed	Completed	
Comments/Actions		Concurrent testing: ID results received 5/28/08		NEW QA POLICY			Dissolution investigation (memo on file). Correct results rec'd 3/27	Sample shipment was delayed because of hold-up by India authorities. Samples were reshipped by	

Artesunate Suppositories

Destination	Benin	Ghana	Mali	Mali		
As suppositories (50 mg)	As suppositories (50mg)	As suppositories (50 and 200 mg)	As suppositories (200 mg)		As suppositories	Total
Product	Mepha	Mepha	Mepha	Mepha		
MANUF						
FDA/SRA						
WHO Pre GF	C1		C1			
Wholesaler	MissionPharma	IDA	Unicef	Missionpharma		
QA	Concurrent	non-concurrent	Concurrent	non-concurrent		
Number of Lots	1		2		Number of Lots	3
Quantity	67,500	168,000	12,168	13,704	Quantity	261,372
Lot acceptance rate	100		100%		Lot acceptance rate	100%
Number lots rejected	0		0		Number lots rejected	0
Complaints	0		0		Complaints	0
Quality investigations	0		0		Quality investigations	0
COC Reviewed (100% complete)	6/9/09		5/18/09		% of As suppositories shipments with pre-shipment reports available	Acceptable performance level: >90% 100%
Time in days from Sampling to Shipment	n/a		n/a		Time in days from Sampling to Shipment	Median: 0, Range: 0 to 0
Time in days required for pre-shipment chemical inspection test reports	n/a		n/a		Time in days required for pre-shipment chemical inspection test reports	#NUM!, 0 to 0
Time in days required from sampling to Certificate of Conformance (completion)	n/a		n/a		Time in days required from sampling to Certificate of Conformance (completion)	#NUM!, 0 to 0
Pharmaceutical Drugs	Benin	Ghana	Mali	Mali	Acceptable performance level:	0-30?
Product	As suppositories	As suppositories	As suppositories	As suppositories		
Supplier	MissionPharma	IDA	Unicef	Missionpharma		
Manufacturer	Mepha	Mepha	Mepha	Mepha		
Order number	PUP-209	PUP-366	PUP-181	PUC-442		
Requisition number	1234	2074	1044	1795		
Contact information	Jens Rasmussen	Mark Oud	(no name) (45) 35 27 35 27 psid@unicef.org	Jens Rasmussen		
Shipping Information	Benin	Ghana	Mali			
Date desired in-country						
Sampling Date	MissionPharma/SGS		Unicef/TGA			
Desired ship date			3/15/09			
Actual ship date	7/3/2009		4/6/09			
Sampling Date to Ship Date						
Arrival date	7/9/2009		4/7/09			
Arrival date - ship date	6		1		Arrival date -ship date	4, 1 to 6
Lot Information	Benin	Ghana	Mali			
Date chemical test report	6/8/09		5/14/09			
Lab	SGS		TGA			
Lot number(s)	0950290		0950290 950238			
Quantity	67,500		12,168	13,704		
Mfd Date						
Exp Date	11/30/2009		11/30/2011			
Status	Completed	Ordered	Completed	Ordered		
Comments/Actions						

Quinine Sulphate 200mg

Destination		Liberia	
Product		Quinine sulfate 200 mg	
MANUF		Micro Labs	
FDA/SRA			
WHO Pre			
GF			
Wholesaler		IDA	
QA		Concurrent	
		Quinine 200 mg	Total
Number of Lots	1	Number of Lots	1
Quantity	272,000	Quantity	272,000
Lot acceptance rate	100%	Lot acceptance rate	100%
Number lots rejected	0	Number lots rejected	0
Complaints	0	Complaints	0
Quality investigations	0	Quality investigations	0
COC Reviewed (100% complete)	4/21/09	% of As suppositories shipments with pre-shipment reports available	Acceptable performance level: >90% 100%
Time in days from Sampling to Shipment	n/a	Time in days from Sampling to Shipment	Median: #NUM! 0 to 0
Time in days required for pre-shipment chemical inspection test reports	n/a	Time in days required for pre-shipment chemical inspection test reports	Range: #NUM! 0 to 0
Time in days required from sampling to Certificate of Conformance (completion)	n/a	Time in days required from sampling to Certificate of Conformance (completion)	#NUM! 0 to 0

Pharmaceutical Drugs

Liberia	
Product	
Quinine sulfate 200 mg	
Supplier	
IDA	
Manufacturer	
Micro Labs	
Order number	
PUP-167/1	
Requisition number	
1019	
Contact information	
Mark Oud moud@idafoundation.org	

Shipping Information

Date desired in-country	Feb '09
Sampling Date	IDA/Vimta
Desired ship date	
Actual ship date	4/27/09
Sampling Date to Ship Date	
Arrival date	4/29/09
Arrival date - ship date	2

Lot Information

Date chemical test report	3/30/09
Lab	Vimta
Lot number(s)	QTIH0023
Quantity	272,000
Mfd Date	Feb '09
Exp Date	Jan '12
Status	Completed
Comments/Actions	ID 4/9/09 Full report rec'd 4/20/09

Acceptable performance level:		0 -30?	
Arrival date -ship date	2	2	to 2

Quinine Sulphate 300 mg

Destination	Ghana	Liberia	Mali		
Product	Quinine sulfate 300 mg	Quinine sulfate 300 mg	Quinine sulfate, 300 mg		
MANUF	Microlabs	Medopharm	Medopharm		
FDA/SRA					
WHO Pre					
GF					
Wholesaler	IDA	IDA	Missionpharma	Quinine 200 mg	Total
QA	non-concurrent	Concurrent	non-concurrent		
Number of Lots		1		Number of Lots	1
Quantity	2,400,000	816,000	1,302,000	Quantity	816,000
Lot acceptance rate		100%		Lot acceptance rate	100%
Number lots rejected		0		Number lots rejected	0
Complaints		0		Complaints	0
Quality investigations		0		Quality investigations	0
COC Reviewed (100% complete)		3/24/09		% of As suppositories shipments with pre-shipment reports available	Acceptable performance level: >90% 100%
Time in days from Sampling to Shipment		23		Time in days from Sampling to Shipment	Median: 23, Range: 23 to 23
Time in days required for pre-shipment chemical inspection test reports		11		Time in days required for pre-shipment chemical inspection test reports	11, 11 to 11
Time in days required from sampling to Certificate of Conformance (completion)		18		Time in days required from sampling to Certificate of Conformance (completion)	18, 18 to 18

Pharmaceutical Drugs

	Ghana	Liberia	Mali		
Product	Quinine sulfate 300 mg	Quinine sulfate 300 mg	Quinine sulfate 300 mg		
Supplier	IDA	IDA	Missionpharma		
Manufacturer	Microlabs	Medopharm	Medopharm		
Order number	PUP-366	PUP-167/1	PUC-442		
Requisition number	2074	1019	1795		
Contact information	Mark Oud	Mark Oud moud@idafoundation.org	Jens Rasmussen		

Shipping Information

	Ghana	Liberia	
Date desired in-country		Feb '09	
Sampling Date		3/6/09	
Desired ship date			
Actual ship date		3/29/09	
Sampling Date to Ship Date		23	
Arrival date		4/2/09	
Arrival date - ship date		4	Arrival date -ship date: 4, 4 to 4

Lot Information

	Ghana	Liberia	Mali
Date chemical test report		3/17/09	
Lab		Vimta	
Lot number(s)		9MB56	
Quantity	2,400,000	816,000	
Mfd Date		Feb '09	
Exp Date		Jan '12	
Status	Ordered	Completed	Ordered
Comments/Actions		Chemical results rec'd 3/20	

Arthemeter injection 20mg

	Destination	Liberia	Mali		
	Product	Arthemether, inj	Artemether, inj		
	MANUF	Dafra	Dafra		
	FDA/SRA				
	WHO Pre				
	GF				
	Wholesaler	IDA	Missionpharma	Arthemeter inj, 20 mg/ml	Total
	QA	non-concurrent	non-concurrent		
	Number of Lots	1		Number of Lots	1
	Quantity	217,100	460,330	Quantity	217,100
	Lot acceptance rate	100%		Lot acceptance rate	100%
	Number lots rejected	0		Number lots rejected	0
	Complaints	0		Complaints	0
	Quality investigations	0		Quality investigations	0
	COC Reviewed (100% complete)	11/16/09		% of As suppositories shipments with pre-shipment reports available	Acceptable performance level: >90% 100%
	Time in days from Sampling to Shipment	21		Time in days from Sampling to Shipment	Median 21 Range 21 to 21
	Time in days required for pre-shipment chemical inspection test reports	9		Time in days required for pre-shipment chemical inspection test reports	9 9 to 9
	Time in days required from sampling to Certificate of Conformance (completion)	12		Time in days required from sampling to Certificate of Conformance (completion)	12 12 to 12
Pharmaceutical Drugs				Acceptable performance level: 0-30?	
	Product	Liberia	Mali		
	Supplier	Arthemether, inj	Artemether, inj		
	Manufacturer	IDA	Missionpharma		
	Order number	Dafra	Dafra		
	Requisition number	PUP-265	PUC-442		
	Contact information	1409	1795		
	Contact information	Mark Oud moud@idafoundation.org Jens Rasmussen			
Shipping Information					
	Date desired in-country	Feb '09			
	Sampling Date	11/4/09			
	Desired ship date				
	Actual ship date	11/25/09			
	Sampling Date to Ship Date				
	Arrival date	11/27/09			
	Arrival date - ship date			Arrival date -ship date	#NUM! 0 to 0
Lot Information					
	Date chemical test report	11/13/09			
	Lab	Vimta			
	Lot number(s)	90611			
	Quantity	217,100	460,330		
	Mfd Date	Sep '09			
	Exp Date	Sep '12			
	Status	Completed			Ordered
	Comments/Actions				

Arthemeter injection 80mg

Destination	Liberia	Mali	Mali		
Product	Arthemether, inj	Artesiane® Art, inj, 80 mg/ml	Artemether, inj		
MANUF	Dafra	Dafra	Dafra		
FDA/SRA					
WHO Pre					
GF		C1			
Wholesaler	IDA	Unicef	Missionpharma	Arthemeter inj, 80 mg/ml	Total
QA	non-concurrent	Concurrent	non-concurrent		
Number of Lots	1	1		Number of Lots	2
Quantity	130,700	16,845	65,355	Quantity	212,900
Lot acceptance rate	100%	100%		Lot acceptance rate	100%
Number lots rejected	0	0		Number lots rejected	0
Complaints	0	0		Complaints	0
Quality investigations	0	0		Quality investigations	0
COC Reviewed (100% complete)	11/16/09	5/18/09		% of As suppositories shipments with pre-shipment reports available	Acceptable performance level: >90% 100%
Time in days from Sampling to Shipment	21	n/a		Time in days from Sampling to Shipment	Median: 21, Range: 21 to 21
Time in days required for pre-shipment chemical inspection test reports	9	n/a		Time in days required for pre-shipment chemical inspection test reports	9, 9 to 9
Time in days required from sampling to Certificate of Conformance (completion)	12	n/a		Time in days required from sampling to Certificate of Conformance (completion)	12, 12 to 12

Pharmaceutical Drugs

	Liberia	Mali	Mali	Acceptable performance level:	0-30?
Product	Arthemether, inj	Artesiane® Arth, inj, 80 mg/ml	Artemether, inj		
Supplier	IDA	Unicef	Missionpharma		
Manufacturer	Dafra	Dafra	Dafra		
Order number	PUP-265	PUP-181	PUC-442		
Requisition number	1409	1044 (no name) (45) 35 27 35 27	1795		
Contact information	Mark Oud moud@idafoundation.org	psid@unicef.org	Jens Rasmussen		

Shipping Information

	Liberia	Mali	
Date desired in-country	Feb '09		
Sampling Date	11/4/09		
Desired ship date			
Actual ship date	11/25/09	4/6/09	
Sampling Date to Ship Date			
Arrival date	11/27/09	4/7/09	
Arrival date - ship date	2	1	Arrival date -ship date: 2, 1 to 2

Lot Information

	Liberia	Mali	
Date chemical test report	11/13/09	5/12/09	
Lab	Vimta	TGA	
Lot number(s)	90612	80531	
Quantity	130,700	16,845	65,355
Mfd Date	Sep '09	Sep '08	
Exp Date	Sep '13	Sep '12	
Status	Completed	Completed	Ordered
Comments/Actions			

Appendix D

TO3-Funded Short-Term Technical Assistance, October 1, 2009 – March 31, 2010

Name	Destination	Travel Date
Warren, Chris	Angola	10/16/09-10/30/09
Warren, Chris	Angola	01/07/10-02/19/10
Ndoye, Thidiane	Burkina Faso	10/02/09-10/16/09
Edah, Parfait	Burkina Faso	10/04/09-10/17/09
Edah, Parfait	Burkina Faso	12/14/09-12/18/09
Edah, Parfait	Burkina Faso	01/14/10-01/14/10
Kagone, Meba	Burkina Faso	01/25/10-02/05/10
Kagone, Meba	Burkina Faso	02/20/10-02/25/10
Ginchereau, Paula	Burkina Faso	03/13/10-03/24/10
Ginchereau, Paula	Ghana	03/24/10-03/27/10
Prasad, Ganesh	Ghana	03/19/10-04/02/10
Balleste, Jordi	Kenya	10/18/09-10/24/09
Belemvire, Allison	Madagascar	11/08/09-11/21/09
Belemvire, Allison	Madagascar	03/13/10-04/01/10
Rack, Ralph	Madagascar	03/13/10-04/01/10
Andersson, Sarah	Malawi	10/26/09-11/08/09
Steele, Gary	Malawi	10/26/09-11/08/09
Coetzee, Eugene	Malawi	01/10/10-01/16/10
Pehe, Norbert	Malawi	02/21/10-03/19/10
Stanton, John	Mozambique	03/22/10-04/02/10
Ngabo, Nathalie	Netherlands	03/17/10-03/26/10
Fabre, Bernard	Nigeria	11/15/09-11/15/09
Durgavich, John	Nigeria	11/29/09-12/22/09
Durgavich, John	Nigeria	01/03/10-01/03/10
Byington, Julia	Nigeria	01/25/10-02/19/10
Collins, Ethan	Nigeria	01/25/10-02/19/10
Hare, Lisa	Nigeria	02/15/10-02/25/10
Paprocki, David	Rwanda	01/19/10-02/03/10

Name	Destination	Travel Date
Stannard, Paul	Switzerland	10/13/09-10/15/09
Hare, Lisa	Switzerland	01/19/10-01/23/10
Rack, Ralph	Switzerland	02/09/10-02/12/10
Brown, Nicholas	Tanzania	01/22/10-02/13/10
Takang, Eric	Tanzania	03/27/10-04/10/10
Tuddenham, Jennifer	Tanzania	03/12/10-04/11/10
Gaye, Aida	USA	10/24/09-10/24/09
Frost, Mike	Zambia	11/06/09-11/25/09
Ndoye, Thidiane	Zambia	11/09/09-11/25/09
Takang, Eric	Zambia	03/18/10-03/26/10

Appendix E

Deliverables Status for FY10

DELIVERABLE	DUE	STATUS
Objective I		
Procurement scorecard	Reported in Semi-annual Report (May 15, 2010) and Annual Report (November 15, 2010)	Submitted
Updated list of pre-approved vendors for malaria commodities	RDTs: TBD	No new vendors, may update based on RDT meeting in June 2010
	LN: TBD	Not updated since last EOI, Sept 2009.
	Pharmaceuticals: as new pharmaceuticals become available/WHO pre-qualified	No new manufacturers during reporting period
Develop order plans with Missions for planned procurements	When funds are obligated	This was recently added to the deliverables table (April 2010). In progress for early release MOP 10 funds.
Product Fact Sheets	As new products become available	Updated fact sheet included in Appendix A
Freight rate validation study	Reported in Annual Report (November 15, 2009 and 2010)	We now report our freight validation findings in both the semi- and annual reports (under objective I)
LN cost effectiveness analysis	3 rd Quarter FY2010	Draft SOW under internal review
QA Report Card	Reported in Semi-annual Report (May 15, 2010) and Annual Report (November 15, 2010)	Submitted in Semi-annual report. QA Report Card provided in Appendix C.
DelPHi system is available according to service level agreement.	Continuously. Uptime statistics for the system are reported monthly in the MIS Performance Metrics Report.	Report sent monthly during the reporting period
MIS Maintenance status report showing completed and in-progress projects as directed by the Change Control Board	Reporting on system modifications continues on a weekly basis.	Updates on system modification sent weekly during the reporting period

DELIVERABLE	DUE	STATUS
Objective 2		
Timely mobilization and response to USAID requests for technical assistance	Periodic	No ad hoc requests during reporting period.
Updated country work plans	October 31, 2010, October 31, 2011	Complete: Waiting for Mission for approval in Liberia, Nigeria and Rwanda
End Use Verification Reports	January 31, 2010; April 30, 2010; July 31, 2010; October 31, 2010	Q1 reports are completed; Q2 reports have been submitted
DataDyne EpiSurveyor analysis tool adapted for countries	Zambia: January 2010; other TBD	Zambia completed; Tanzania completed
ACT Quantification Tool and Reference CD available	3 months after tool is finalized	Tool still under development, may redefine scope of reference CD or remove from deliverables table
Optimization or simulation deliverables and policy brief	March 2010	Originally planned for Liberia, but did not take place.
One page malaria logistics highlights	One per quarter posted on website	Not yet undertaken due to delay in work plan review and approval. Still plan to post 4 highlights by the end of FY10.
Analysis demonstrating link between product availability and malaria indicators	1 st Quarter FY2011	Determining feasibility of conducting such an exercise in Zambia.
Malaria section of JO course	January 2010, second date TBD	Course conducted January 2010.
Malaria content for DELIVER technical meeting	3 rd Quarter FY2010	Content completed for April 2010 Meeting
Malaria supply chain logistics guidelines	Draft 3 rd quarter FY2010	Likely to be delayed until 4 th quarter FY2010
PPMRm reports	January 2010; April 2010; July 2010; October 2010; January 2011; April 2011	Completed reports submitted for January and April 2010
Objective 3		
LN recycling pilot report	2nd Quarter FY2010	Pilot assessment completed and submitted April 2010; pilot to be completed in Q4
LN retire and reuse guidelines	TBD	Will be developed based on pilot
RDT disposal pilot and guidelines	1st quarter FY2011	Assessing value of this activity. Based on feedback from partners, may remove from work plan
Meeting briefing notes or presentations with recommendations	TBD (depends on meeting/conference attendance)	Report with recommendations available from PSM WG meeting in January 2010

DELIVERABLE	DUE	STATUS
Other		
Annual Report for FY2009	Draft due November 15, 2009	Submitted draft by deadline. Finalized May 2010.
Semi-Annual Report for FY2010	Draft due May 15, 2010	Submitted draft by deadline.
Work plan for FY2011	Draft due September 30, 2010	In progress
Annual Report for FY2010	Draft due November 15, 2010	In progress

For more information, please visit deliver.jsi.com.

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