



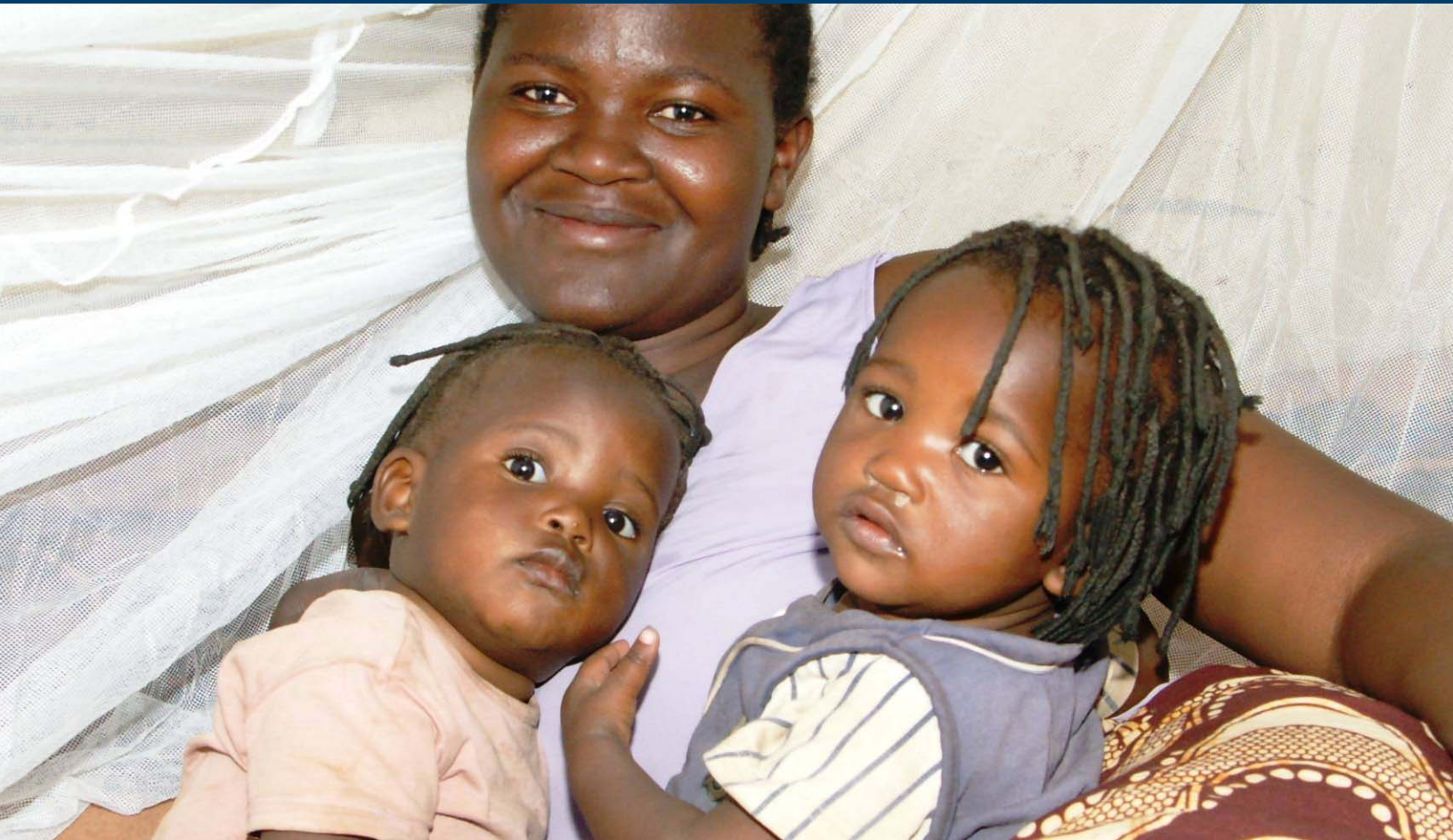
USAID | DELIVER PROJECT

FROM THE AMERICAN PEOPLE

Task Order 3 (Malaria)

FY2009 Annual Report

October 2008 – September 2009



DECEMBER 2009

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PRESIDENT'S MALARIA INITIATIVE



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The USAID | DELIVER PROJECT, Task Order 3, is funded by the U.S. Agency for International Development (USAID) under contract no. GPO-I-03-06-00007-00, beginning April 6, 2007. Task Order 3 is implemented by John Snow, Inc., in collaboration 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. Pharmacopeia (USP). Task Order 3 supports USAID's implementation of malaria prevention and treatment programs by procuring, managing, and delivering high-quality, safe, and effective malaria commodities; providing on-the-ground logistics capacity, technical assistance, and pharmaceutical management expertise; and offering technical leadership to strengthen the global supply, demand, and financing of malaria commodities.

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Abstract

This semi-annual report documents the activities of Task Order 3 (Malaria) during FY2009 (October 1, 2008–September 30, 2009). 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: Zambian mother and her twins with their new long-lasting insecticide-treated bednets, soon after receiving them and vaccination during an antenatal visit at Kalingalinga Urban Health Centre. Lusaka, Zambia. August 2009.

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 annual report, which includes October 1, 2008, to September 30, 2009, 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, through the President's Malaria Initiative (PMI), is part of the United States Government's effort to fight malaria in sub-Saharan Africa. The initiative, which works in 15 African countries, is led by the U.S. Agency for International Development (USAID). TO3 has a long-term presence in eight of the PMI focus countries and is expanding its presence to Burkina Faso and Nigeria in FY 2010.

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.; United Parcel Service (UPS) Supply Chain Solutions; Family Health International (FHI); The Manoff Group, Inc.; 3i Infotech; Center for International Health and Development (Boston University School of Public Health); and U.S. Pharmacopeia (USP).

Improve and Expand the Provision of Malaria Commodities to Country Programs

From October 2008–September 2009, TO3 continued to increase its procurement activities by providing U.S.\$64,603,472 worth of malaria commodities to 19 African countries; including \$35,187,695 for long-lasting insecticide-treated bed nets (LNs) (54.5 percent of the total), \$25,534,852 for pharmaceuticals (39.5 percent), \$3,381,273 for rapid diagnostic test (RDT) kits (5 percent of the total), \$391,209 for laboratory equipment (less than 1 percent), \$16,300 for computers and other equipment (less than 1 percent), and, in Zimbabwe, \$77,071 for sprayers used in indoor residual spraying (IRS) (less than 1 percent). During the reporting period, TO3 procured almost twice the value of malaria commodities than in the preceding fiscal year. This demonstrates the ability of TO3 to rapidly scale up its activities to respond to increasing PMI demand.

To monitor the effectiveness and efficiency of the procurement process, the team developed a procurement scorecard to track key indicators related to performance (orders filled on time, supplier fill rate, length of contracting time, etc.). During the reporting period, based on the procurement scorecard, the procurement team exceeded all performance goals. TO3 also improved on the previous strategy for a freight reasonableness study that will more accurately compare UPS rates with other freight carriers to ensure that sensible and cost-efficient freight decisions are being made.

Over the last year, the Supply Operations Team implemented a quality management system (QMS). The primary product of the QMS was the documentation of standard operating procedures for each of the task orders to assure consistency in work processes.

TO3 also developed product fact sheets containing drug formulations, shelf life, storage requirements, and packaging specifications to help facilitate logistics planning and the proper management of malaria commodities. The procurement team developed a product waiver tracking sheet that provides information on

product waivers, pharmaceutical approvals (WHO prequalification, stringent regulatory authority approval), and manufacturer compliance with WHO's monotherapy policy.

TO3 continued to implement its rigorous quality assurance policies, 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).

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.

Some examples from the reporting period include—

Benin: the project cleared from port and delivered three LN consignments, totaling 835,000 LNs, to 35 health zones (sub-districts). Each consignment was cleared and delivered within a week of arrival.

Ghana: The TO3 country team transported 10,000 ACT treatments to the flood-stricken Northern region as part of a relief effort.

Liberia: The project provided financial and logistical support for a door-to-door LN distribution campaign. During this campaign, 230,000 households (approximately 1 million people) were reached with 426,096 LNs, representing 72% coverage of the target population. Ninety-nine percent of the 430,000 PMI-funded LNs were distributed through the campaign. The community health teams (CHTs) will distribute the remaining nets through ANC clinics.

Malawi: The project continued to strengthen the logistics management information system (LMIS) and provide monthly stakeholders' reports that summarize stock availability by district and facility-level stockout rates for ACTs, sulphadoxine-pyrimethamine (SP), and quinine.

Mozambique: The TO3 country team set up ACT kitting operations in Maputo and Beira and prepared 9,885 kits to be transported to the provinces beginning October 1, 2009.

Tanzania: The project continued providing assistance to MSD for monitoring zonal stock levels, prepositioning commodities in the zones, revising zonal max/min levels in the light of more data becoming available, having additional packing lines put in place at the zonal levels and more regions shifting to the ILS that would include AL. This ensured that products were continuously available at the zones to resupply facilities directly instead of facilities coming all the way to the central level for resupply. This effort provided a reduction resupply lead and reduced the frequency of stock outs.

Zambia: The project implemented the Malaria/Essential Drugs Logistics System (EDLS) pilot, which included collecting baseline data on ACT and SP availability at 480 facilities and training 668 people on how to operate the system.

TO3, by responding to an emergency request to support IRS, helped avert a looming malaria epidemic in Zimbabwe. The project fielded a consultant within three weeks of the original request; the consultant conducted monitoring and supportive supervision visits in 14 of the country's 20 districts (located in six of the eight provinces) that were targeted for emergency IRS.

TO3 also developed and deployed several tools and approaches to improve local capacity to manage and monitor malaria commodities. The project worked with key Clinton Foundation staff to develop a joint malaria commodity forecasting tool, including field testing it in Mozambique and developing the capacity to export to PipeLine. TO3 also pilot tested PMI's End Use Verification process in Tanzania---adapting the End Use

Monitoring tool based on the results of the pilot and shared the updated forms and indicators with the Management Sciences for Health/Strengthening Pharmaceutical Systems (MSH/SPS) project. The project proceeded to roll it out in Ghana and Zambia.

TO3 carried out an initial concept pilot using EpiSurveyor to capture data for the End-Use activity in Tanzania in April, and based on the recommendations from that pilot, TO3 worked with DataDyne to add several enhancements to EpiSurveyor, including the ability to back the data up to a laptop, and the creation of analysis templates to automatically generate the PMI End-Use indicators. A full pilot of these new enhancements was carried out in Ghana in July and August of 2009, during that country's first quarter of data collection for the End-Use activity.

Improve global supply and availability of malaria commodities.

To improve the global supply of malaria commodities, information must be shared and resources leveraged at the global level. During the reporting period, TO3 participated in a number of activities and meetings to support this goal, including meeting with the Foundation for Innovative and New Diagnostics (FIND) to discuss the preliminary results of the WHO/FIND Rapid Diagnostic Testing (RDT) testing program; participating in Roll Back Malaria Procurement and Supply Management working group and the Alliance for the Prevention of Malaria (AMP) meetings; and attending the Artemisinin Enterprise Conference, where new sources of artemisinin were discussed and new technologies for a sustainable supply of ACTs were introduced. The project, in collaboration with FIND and WHO, published and distributed storage guidelines for RDTs.

Additionally, TO3, working with WHO and manufacturers, has been exploring potential, effective replacement/recycling strategies for LNs. Support provided includes identifying international stakeholders that could provide the technical expertise (e.g., New Fields), finding approaches to make this initiative financially sustainable (e.g., Acumen Funds) and identifying a potential public/private partnership with TREX, a composite wood deck manufacturer who is interested in using the plastic from recycled LNs in its manufacturing process.

Increase performance monitoring and evaluation.

TO3 finalized and put in place a performance monitoring and evaluation plan. We agreed on indicators with PMI and clear definitions were developed and detailed in a quality assurance surveillance plan (QASP). We used the performance monitoring plan in this document; the relevant indicators for the reporting period can be found in each of the different sections.

Improve implementation issues and solutions.

The project continues to work diligently to manage expectations and communicate effectively with our in-country partners. Some steps that were taken during the reporting period include conducting various sessions on the procurement process and technical assistance (TA) activities presented for USAID/Washington and the project's country management team. Over the last six months, the project has experienced some issues around clarity of the roles and responsibilities of in-country partners in the procurement and clearance process. In two separate cases, this led to products remaining in port for an extended period and incurring demurrage charges. To address this, the project proposes to visit non-presence and new countries to review the process with stakeholders and to identify who will be responsible for each step in the process.

A number of operational challenges, such as the political unrest in Madagascar and the changing labor laws in Mozambique, arose during the reporting period, and we expect them to continue. TO3 is working closely with in-country counterparts and USAID/Washington to mitigate these difficulties and continue to provide quality malaria commodities. Despite the varied nature of these complications, the task order has managed to

significantly increase the commodities and assistance provided during the reporting period, while still providing timely and responsive service to USAID Missions and in-country partners.

Description of Activities

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

Procurement

The principal activity of T03 is to support the President's Malaria Initiative (PMI) by procuring malaria commodities in response to requests placed by USAID Missions, which are based on the needs outlined in the yearly Malaria Operational Plans (MOPs). In the twelve months of FY09, requests for procurement assistance were processed from 19 countries; Angola, Benin, the Democratic Republic of the Congo (DRC), Ethiopia, Ghana, Kenya, Liberia, Madagascar, Malawi, Mali, Mozambique, Nigeria, Rwanda, Senegal, Sudan, Tanzania, Uganda, Zambia and Zimbabwe.

Review and refine procurement systems and procedures

To facilitate USAID Missions in placing orders with the USAID | DELIVER PROJECT, the TO3 team put together a Procurement Guide, which provides a step-by-step description of the procurement process, from definition of commodity specifications to placement of orders, and highlights important points for Missions to consider when placing requests with the USAID | DELIVER PROJECT.

The Supply Operations Team also completed an extensive review of and issued a full Standard Operating Procedure manual covering all aspects of the procurement cycle.

To officially place an order, TO3 must receive a Commodity Procurement Information Request form (CPIR), which is included in

the Procurement Guide and can be accessed through 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 CPIRs to cover; LNs, RDT's, Coartem®, Winthrop® FDC AS/AQ and Pharmaceuticals and Medical Supplies. Updated versions of these forms can be found in Appendix A.

To complement the Procurement Guide and provide a standard operating procedure (SOP) for project staff to follow, TO3 put together a flowchart of the procurement process. The Procurement Request Handling



Procedure outlines the actions undertaken within the project to respond to Mission requests and procure malaria commodities and related services. The procedure clearly defines responsibility for each action, with the objective of ensuring that procurement requests are carried out efficiently, facilitating the timely delivery of commodities and services.

During the reporting period, the TO3 team also completed a country information matrix containing Mission contact information and information on in-country partners with roles in commodity handling, which was submitted to USAID. Because these details change frequently and must be confirmed with each new request, project staff proposed that the CPIR would be a better place to access this information, rather than maintaining the matrix as a separate document. This proposal was accepted by the COTR.

Product Fact Sheets

To help facilitate logistics planning and the proper management of malaria commodities, TO3 has also put together product fact sheets containing 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 made available to field offices, Missions and USAID-supported partners.

Execute procurement requests

During the twelve months of FY2009, 19 countries sent the project requests for procurement assistance, for a total value of \$64.6 million. A total of 84 sub-contracts were placed on 15 manufacturers/vendors. This amount is significantly more than the total amount procured in FY2008, which was \$35 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, based on the response to the 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 thus included on the JSI pre-selected list, are invited to bid or quote (see Appendix B).

Table I: Commodities Procured October 1, 2008 – September 30, 2009

COUNTRY	DATE	COMMODITY	VALUE (\$)	QUANTITY
Angola	Dec-08	Coartem	2,177,910.00	2,004,480
	Feb-09	MMK's	134,783.00	43
	Mar-09	RDTs	415,700.00	600,000
Benin	Oct-08	LN's	3,891,100.00	835,000
	Jan-09	MMK's	97,390.00	30
	May-09	Severe Malaria Pharmaceuticals	30,647.00	67,500
	Jul-09	Severe Malaria Pharmaceuticals	30,647.00	67,500
DRC	Mar-09	LN's	363,000.00	82,500
Ethiopia	Jul-09	RDTs	641,464.00	820,000
Ghana	Oct-08	AS+AQ	851,000.00	1,142,760
	Dec-08	LN's	2,032,100.00	350,000
	Jul-09	RDTs	52,554.00	74,000
	Jul-09	Microscopes and accessories	36,137.00	30
	Jul-09	Lab Eqpt	99,499.00	Various
Kenya	Aug-08*	Coartem	888,290.00	882,990
	Jan-09	LN's	2,754,000.00	550,000
	Mar-09	SP tablets	30,070.00	840,000
	Dec-08	Coartem	2,556,748.00	2,436,480
	Aug-09	Coartem	5,376,444.00	5,368,320
	Sep-09	SP tablets	56,504.00	1,680,000
Liberia	Mar-09	RDTs	601,242.00	850,000
	Mar-09	AS+AQ / Severe Malaria Pharmaceuticals	810,626.00	Various
	Feb-09	LN's	2,206,591.00	430,000
	Jul-09	Severe Malaria Pharmaceuticals	248,963.00	347,800
Madagascar	Dec-08	LN's	2,901,479.00	500,000
	Jul-09	LN's	2,100,000.00	500,000
Malawi	Oct-08	Coartem	2,363,485.00	2,553,600
	Nov-08	Coartem	2,775,035.00	3,951,360
Mali	Oct-08	SP tablets	89,775.00	3,000,000
	Nov-08	LN's	3,111,954.00	600,000
	Feb-09	RDTs	7,000.00	10,000
	Feb-09	Severe Malaria Pharmaceuticals	22,900.00	Various
	Feb-09	Lab Eqpt	23,400.00	Various
	Apr-09	Refrigerator	830.00	1
	May-09	Coartem	104,473.00	207,360
	May-09	AS+AQ	24,935.00	34,360
	Sep-09	Computers and Server	15,470.00	6+1
	Sep-09	RDTs	14,049.00	20,000

Mozambique	Dec-08	Coartem	3,943,355.00	3,548,160
	Jan-09	LN's	2,631,520.00	500,000
Nigeria	Oct-08	LN's	3,658,794.00	706,000
	Jul-09	FDC AS/AQ	559,640.00	1,200,000
Rwanda	Aug-09	LN's	4,583,589.00	581,100
Senegal	Feb-09	LN's	982,000.00	200,000
	Mar-09	LN's	883,800.00	180,000
Sudan	Mar-09	AS+AQ	871,207.00	1,627,500
Tanzania	Feb-09	Coartem	231,318.00	236,160
	Jan-09	RDTs	131,805.00	200,000
	Jul-09	RDTs	430,941.00	750,000
Uganda	Nov-08	Coartem	845,044.00	1,140,480
	Sep-09	LN's	1,500,000.00	300,000
Zambia	Nov-08	Coartem	150,889.00	172,800
	Nov-08	Coartem	77,474.00	92,160
	Nov-08	Coartem	130,882.00	149,760
	Dec-08	RDTs	373,308.00	660,000
	Feb-09	LN's	1,587,768.00	325,000
	May-09	RDTs	713,210.00	1,250,000
Zanzibar	May-09	Coartem	301,663.00	282,240
Zimbabwe	Jan-09	Sprayers	77,071.00	250
Total			64,603,472.00	

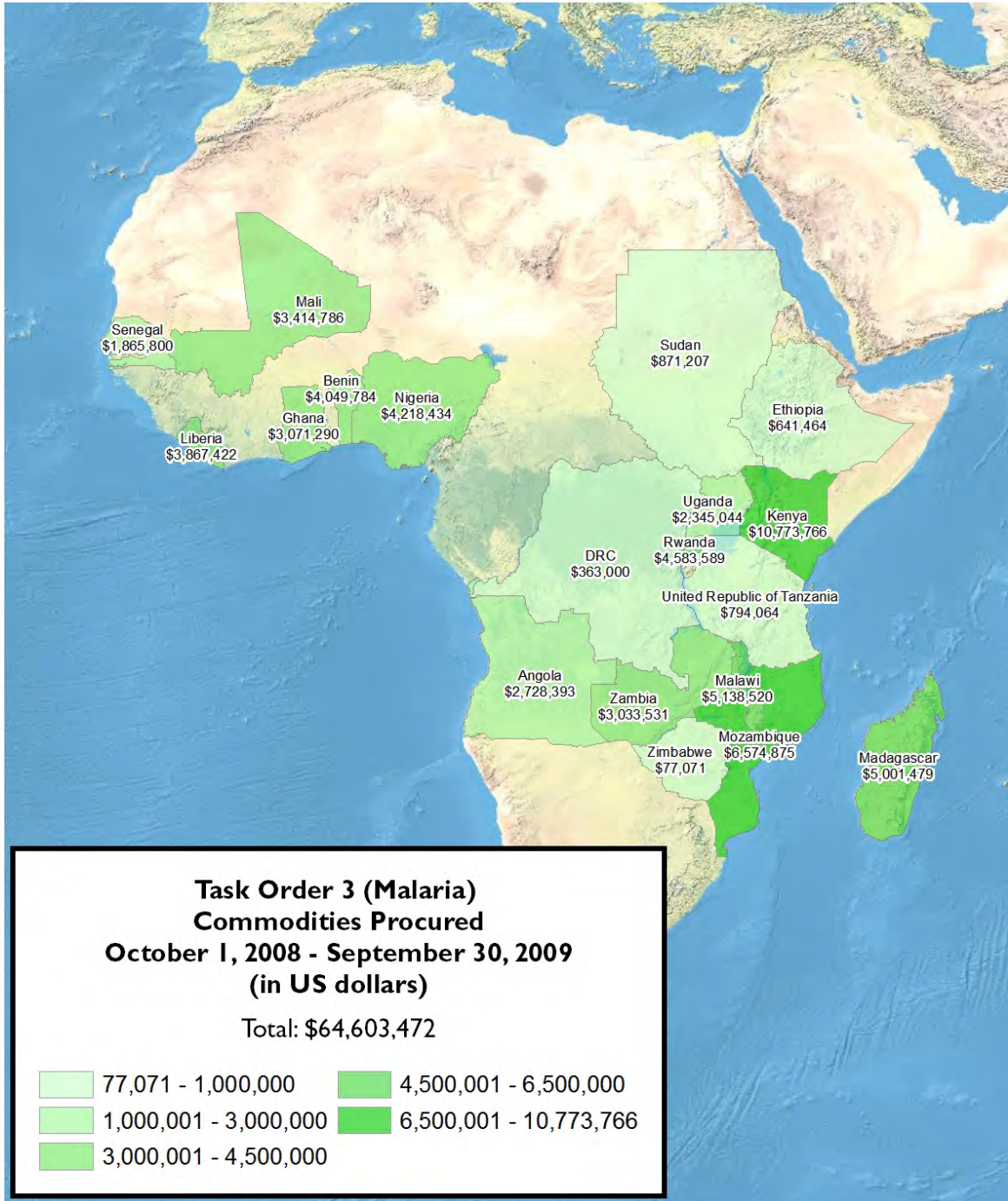
* Inadvertently not included in FY2008 figures so included in this report

Figure I: Commodities Procured October 1, 2008 – September 30, 2009.



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Procurement Scorecard and PMP Indicators

Table 2: October 1, 2008 – September 30, 2009 PMP Indicators for the Procurement Process

Support Area	Operational Area	Indicator	Status
Direct Procurement Services	Monthly system scorecard implemented	Monthly scorecard available	Completed
	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	92% overall for all suppliers. See actual scorecard for individual supplier results and comments below.
		% of orders shipped to the countries within 10 working days of contracted date with vendors	99%
		% of orders received by countries within a month of agreed date with the Mission	99%
	Suppliers deliver ordered commodities to satisfy contractual requirements	Supplier fill rate (contracted quantity on time) - (data 10/08 – 2/09)	94% overall for all suppliers. See actual scorecard for individual supplier results and comments below.
		Median number of days required to contract one commodity from completed CPIR to contract signing	42 days (55 days in first six months of FY09)

During the reporting period, TO3 implemented a scorecard to assess system performance of the procurement process which measures supplier and shipper performance against standard indicators. PMI proposed 70% as an initial target for each indicator, with reporting on at least 80% of the indicators. Reporting has been done for all indicators (100% against the 80% target). The results are described below for the fiscal year report.

Orders Available for Shipping on Time

Only four orders of 49 measured during this period were not available for shipping on time.

- A Rwanda bed net order was delayed due to changes in specifications requested by the Rwanda NMCP late in the procurement process.
- One vendor produced and released goods on two orders for sampling 2-3 weeks late due to shortage of raw materials.

- Order lead time was longer than expected since vendor had stock when quote was requested and then was stocked out at time of order confirmation.

Orders Shipped on Time

Only one order of 158 shipped after the defined parameter for this indicator. It shipped five days late.

Orders Received On Time

One shipment of the 70 measured during this time period was not received on time because the supplier's scheduled transit time was longer than expected.

Supplier Fill Rate

Three shipments of 54 measured during this period failed to satisfy the fill rate definition.

- A Rwanda bed net order was delayed due to changes in specifications requested by the Rwanda NMCP late in the procurement process.
- One vendor produced and released goods on two orders for sampling 2-3 weeks late due to shortage of raw materials.

In the first half of the fiscal year, there were several discussions about which data fields to capture to measure performance against the indicators. Over the year there was some refinement. The result is that there is no longer a distinction between two indicators for supplier performance, Goods Available by Scheduled Ship Date and Fill Rate. Both count whether an order was completely filled on time. We therefore plan to merge the two for FY2010 reporting.

The project will continue to compile monthly scorecard data. Now that we have completed one fiscal year of reporting, we recommend revisiting the initial performance targets to determine whether or not they should be raised. Given the high percentage of targets met, a higher target would make sense.

During this fiscal year, the Supply Operations Team implemented a quality management system (QMS). The primary product of the QMS was the documentation of standard operating procedures to assure consistency in work processes. A cover memo describing the implementation of the system was presented to the Task Order COTR several days ahead of the May 15 deliverable date.

Shipment Cost Analysis

After a review of last year's cost reasonableness study, TO3 developed an alternative strategy for the UPS freight reasonableness study to more accurately compare UPS rates with spot rates in the same lanes at the time of shipment. The study was conducted on an on-going basis, with the FUEL Group conducting a rate comparison for every fourth UPS shipment. UPS provided the origin/destination pair, shipment weight/volume, mode, and desired receipt date.

The FY2009 study covered six shipments/routings where UPS had provided the freight services, from four origin points: three in the USA, two in Europe and one in South Africa to five countries in Africa. For all shipments, UPS was competitive. In four cases, the UPS rate per kilo was the lowest of the three rates compared. For one shipment, the UPS rate was higher than the average of the other two, though it was lower than the highest rate. For one shipment, UPS had the highest rate, though it was in a competitive range with the second rate. In this case, the UPS rate was quoted in Swiss francs, so that difference may be attributable to the exchange rate at the time of shipment. The details of the study are provided in a separate memo (see Appendix C).

Freight Forwarding

The freight team successfully forwarded malaria commodities to several PMI countries from October 2008 through September 2009, including large ACT shipments bound for Tanzania, Kenya, Angola, Malawi, Mozambique and Zambia. The freight team was also involved with three successful, in-country distributions of LNs to Benin health centers. Shipment execution tasks include freight estimate preparation, vendor door pickup, freight booking, shipment tracking, customs clearance and final recipient delivery.

Shipping instructions are maintained by the freight team, and document the consignee contact, customs documentation requirements and special country customs processes that must be followed. The freight team will continue to update the shipping instructions as required.

Shipment milestones continued to be manually updated in Orion, part of the USAID | DELIVER PROJECT's Management Information System (MIS). Shipment milestones provide shipment visibility to users of the MIS website.

For cost effectiveness, to minimize shipment delays, and to assure that T03 shipments are adequately insured, the freight team worked with JSI to obtain a master insurance policy for T03 RDT and ACT shipments. This new policy has resulted in a significant savings on insurance premiums.

The relatively large shipment sizes and limited airline capacity have continued to present challenges, but the freight team has been able to respond effectively and will continue to research strategies that will help ensure timely and complete deliveries. Shipment security continues to be a concern. The freight team worked with task order management and in-country contacts to provide security escorts when deemed necessary..

Quality Assurance

Long-lasting insecticide-treated bed nets (LNs)

During the reporting period, the quality assurance team arranged for physical and chemical testing to be conducted pre-shipment (physical) and concurrently with shipping (chemical) on several orders of deltamethrin-coated polyester LNs, procured from Vestergaard-Frandsen; alpha-cypermethrin-coated polyester LNs from BASF-AGRO; deltamethrin-incorporated polyethylene LNs from BestNet; and permethrin-incorporated polyethylene LNs from Sumitomo.

Vestergaard-Frandsen passed the WHO Pesticide Evaluation Scheme (WHOPES) phase-III testing in December and now carries WHOPES full recommendation for Permanet 2.0[®]. Sumitomo passed phase-III earlier. BASF and Bestnet previously passed phase-II; they have an interim recommendation from the World Health Organization (WHO).

The pre-shipment quality assurance sampling and physical inspection found one consignment that had to be reworked and re-inspected due to higher-than-normal physical defects.

A Quality Assurance Partners Meeting occurred on March 24, 2009. The status of all consignments for LNs, RDTs, and Pharmaceuticals was discussed.

Rapid diagnostic test (RDTs) kits

TO3 conducted procurements for ICT, Paracheck, ParaHIT and CareStart RDTs during the reporting period. The World Health Organization Regional Office for the Western Pacific (WHO-WPRO) laboratories in the Philippines, Cambodia and Ethiopia conducted testing. WHO-WPRO also conducted long-term stability tests on samples from earlier procurements after three, six, nine, 12, 15, 18 and 21 months. All test results indicated that the RDTs met WHO requirements at both the 200 parasites/ μ l and 2,000 parasites/ μ l levels.

After reviewing the results from the CDC-panel screening and discussion within the QA team and with WHO/FIND representatives, the project decided to change the policy for RDT testing from post-shipment to non-concurrent pre-shipment after July. In light of the 200parasites/ μ l results of Paracheck in the CDC Panel/Product review, a proactive step was initiated where a quality survey of field samples was conducted. Field samples were collected from Tanzania and sent to the laboratory in Ethiopia for testing. All results indicated that these samples were still functioning properly. In addition, the Quality Assurance team conducted a desk-audit and on-site assessment of two RDT manufacturers.

In late September, Tanzania provided feedback about a quality issue with one lot of RDTs. A QA investigation was conducted and ultimately the manufacturer voluntarily replaced the product.

Pharmaceutical products

Coartem. More than 140 batches of Coartem were shipped and distributed to Angola, Kenya, Malawi, Mozambique, Tanzania, Uganda, and Zambia during the reporting period. The QA team reviewed Certificates of Compliance for each lot. In February, FHI received retention samples from Novartis for each batch. In April, four batches of the new dispersible Coartem were also received. To build a more comprehensive artesunate-lumefantrine spectra library that can be used for quality assurance (identification) and investigative purposes, CDC and FHI have scanned all batches using a near infrared (NIR) unit.

Artesunate-amodiaquine (AS/AQ) procured from Missionpharma and IDA for Ghana and Liberia, *fixed dosed AS/AQ* procured from Sanofi/Aventis for Nigeria and *sulphadoxine-pyrimethamine (SP)* procured from UNICEF, MissionPharma and IDA for Mali, Kenya and Liberia were tested by accredited independent laboratories.

The Quality Assurance team uncovered a testing discrepancy for the *sulphadoxine-pyrimethamine (SP)* product that prompted a laboratory investigation. The investigation found the source of the error and the product was determined to be compliant.

Severe malaria drugs were procured ; including quinine sulfate, quinine injections, artesunate suppositories, and injectable artemether. Test results from an accredited independent laboratory were obtained for each batch of each order.

WHO pre-qualified products (such as AS/AQ) were tested concurrent with shipping. Non-pre-qualified products (such as SP) were tested concurrent until March, non-concurrently after that.

The PMP indicators show a significant improvement in the median time for LN, RDT and Pharmaceutical testing and reporting which improves the overall efficiency of supplying the orders to the end-user.

Table 3: PMP Indicators for the Quality Assurance Process, October 1, 2008–September 30, 2009

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 times (in days) and range of days required for pre-shipment LN test reports	Current year: 12 days after shipment Range -0 to 45 days Before Oct 1, 2008: 21 days Range 7 to 40 days
		% of RDT shipments with up-to-date post-	100%

	shipment test reports available	
	Median time (in days) and range for up-to-date RDT test reports	Post-shipment policy: 40 days after sampling. Range - 20 to 51 days. Pre-shipment policy: 13 days after sampling. Range - 7 to 21 days. Before Oct 1, 2008: 22 days after sampling Range: 13 to 56 days
	% of pharmaceutical shipments with pre-shipment certificates of conformance	100%
	Median time (in days) and range required for pre-shipment pharmaceutical test reports	Concurrent tests: 18 days after shipping Range - 0 to 32 days Non-concurrent test: 17 days after sampling (one order) Before Oct 1, 2008: Concurrent: 31 days after shipping (one order) Non-concurrent: 56 days, Range 54-58 days after sampling (two orders)

For more information, see the QA Report Card in Appendix D.

Management Information System (MIS)

In October 2008, the MIS team was scaled back and began operating under a maintenance budget. The maintenance team is composed of the resources necessary to run the day to day operations of the system, respond to requests for proposals, 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 high impact items were completed during this reporting period. The work is grouped by impacted area, the USAID | DELIVER website or the ORION base software.

USAID | DELIVER Website

Enhanced data availability

- Implemented an additional data refresh at noon every day, supplementing the existing data refreshes at 7am and 7pm, EDT. This improved website availability of transactional data in the ORION ERP system as changes made in the morning now are viewable on the website on the same day.
- Improved management report accuracy, availability, and viewing speed. Improved numerous management reports to ensure accuracy of data in all circumstances. Also made it easier to use the Excel and PDF report downloads while also converting them to a faster presentation software

ORION (SOT/Procurement Base Software)

Enhanced date consistency across entire system

- ORION was modified to perfect consistency for all date fields (i.e., Requested Delivery Date, Actual Delivery Date, etc). This consistency led to significant improvement in communication and identification of the actual date an action occurred. This was a multi-phase project running several months.

Improved management and financial report accuracy

- Improved the existing and created new management and financial reports to ensure accuracy of data in all circumstances. This was necessary as users become more familiar with what data is available and they develop new needs.

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

- In May 2009, the MIS and SOT teams completed all actionable recommendations from the Independent Verification & Validation (IV&V) report issued last year. A CD ROM, containing all deliverables, was delivered to the USAID MIS Advisor. This closed out the IV&V effort as JSI had met all requests.
- Refresher training was provided to staff members who manage customer requests from the AskDeliver mailbox. This session provided an overview of the ticket tracking software and procedures for ensuring that logged problems are corrected or escalated timely.
- The servers that are used to support the USAID | DELIVER website and the ORION base software were upgraded to newer versions of hardware and software. This has been evident in improved reliability and ease of maintenance.
- The JSI disaster recovery plan was upgraded, reviewed, and approved by the USAID MIS Advisor.

Table 4: PMP Indicators for the MIS, October 1, 2008–September 30, 2009

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.	99.91 %
	Total number of visits	Total number of visits to the USAID DELIVER PROJECT website	320,555
	Number of logins	Total number of logins to the USAID DELIVER Website	7,957

The significant increase in visits and logins may be attributed to ensuring the utmost possible data accuracy and availability.

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 essential 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.

Ghana

- The TO3 country team assessed, designed, and implemented plans for clearing through customs; and transporting and storing LNs, RDTs, microscopy kits and doses of ACTs, including using nationwide stock status monitoring to monitor consumption.
- One health services staff member and one project staff member were trained in supply chain management and quantification at the project-sponsored ESAMI course in Tanzania.
- The project provided technical assistance on the logistics management component of the NMCP's home-based management of malaria proposal.
- The project continued to provide support to the NMCP on the implementation and ongoing management of a functional insecticide-treated bed nets database, which provides an overview of multiple channels of bed net distribution. Specific to this activity, the project worked closely with key partners to coordinate the



Community health workers deliver LNs to rural communities in Liberia, May 2009.

availability of reliable data that would provide additional support to the NMCP for strengthening the management of national public/private LN partnerships systems.

- The project implemented the first round of the end-use activity using EpiSurveyor to aid in the collection and analysis of data collected at SDP level.
- The project transported 10,000 treatments of ACTs to the flood-stricken Northern Region.
- Central level stock monitoring was conducted on a monthly basis and reported quarterly in the PPMRm.
- The project scheduled and implemented a malaria commodities quantification which included other partners and MOH personnel.
- In support of the NMCPs need for better commodity tracking, the project provided

malaria-specific commodity tracking forms for the health facility system.

Liberia

- The project developed an Excel-based tool for managing and reporting on malaria commodities, particularly the stock level and consumption rate for each commodity. This information is used for central level stock monitoring and for reporting in the PPMRM.
- The project distributed 12,450 LNs to health facilities for routine distribution to pregnant women and children under-five in four counties.
- The project procured, cleared, and transported 430,000 LNs to districts in Grand Bassa, Lofa and Nimba counties. It also supported the county health teams in the door-to-door distribution of those LNs.
- The project assessed, designed, and implemented a plan for clearing through customs; and transporting, and storing RDTs, ACT treatments as well as treatments for severe malaria.
- The project provided continuous support to colleagues in the Ministry of Health and Social Welfare (MOHSW), NMCP, and the National Drugs Service (NDS) on supply chain management; including best practices for storage and quantification through structured trainings, as well as on-the-job training. The country team introduced counterparts to a simple electronic inventory tally sheet, bin cards, and stock reporting forms.
- Through collaboration with local partners, the project implemented SOPs for the training of trainers which resulted in 30 master trainers being trained.
- The project initiated a baseline study that will be used to measure the implementation of the SOPs for health products supply management tools

Madagascar

The objectives of the Task Order Malaria efforts in Madagascar for FY09 were to establish a field office, to build local capacity for supply chain management, to facilitate the forecasting and quantification of malaria commodities and to support the procurement of malaria commodities, specifically LNs. After a military coup in March, the U.S. government imposed sanctions against the government of Madagascar. All TO3 activities active in the public sector were suspended and remain so as of this writing. Activities conducted in cooperation with NGOs in Madagascar are ongoing; public sector activities will resume after the sanctions are lifted.

- The project assisted with the planning and preparations for the mass distribution campaign with the National Coordination Committee for the LN distribution, scheduled for Nov/ Dec 2009. This included two field visits to the targeted distribution areas, in order to notify and prepare the communities of the upcoming campaign.
- At the encouragement of the Mission, the project collaborated with partners PSI and the Malagasy Red Cross to develop an alternative plan for LN distribution, in light of the political occurrences in March 2009.

Prior to suspension:

- The project held a training course for the logistics management of health commodities, such as those used for malaria, for 25 high-level officials of the Ministry of Health (MOH), family planning, and partner organizations.

- The project conducted a workshop to reinforce the national logistics plan for malaria commodities and to establish a consumption and stock data collection information system at a peripheral level.
- The MOH/SLP and the project organized working sessions to determine RDT specifications and quantification, as well as microscopy malaria kit component specifications.

Malawi

The objectives of the Task Order Malaria efforts in Malawi for FY09 were to continue to build capacity among the MOH and CMS while improving product availability and strengthening supply chains for malaria commodities.

- The project continues to facilitate third-party warehousing and distribution on behalf of the Central Medical Stores (CMS) for all ACTs that arrive in the country. It is assisting CMS and the National Malaria Control Program to monitor at the central level the Global Fund procured ACTs.
- The project continued to conduct supportive supervision to improve stock management, record keeping, and reporting. Reporting rates improved from 57 percent in July to 75 percent in December, and after declining in the spring of 2009 increased to 81 percent in July 2009. Stockouts of artemether-lumefantrine (AL) (all four presentations) steadily declined from 14 percent in October 2008 to 2 percent in February 2009. July 2009 data showed stockouts of AL were 9 percent, a significant improvement from the March 2009 rate of 16 percent.
- The project participated in the quarterly ACT implementation review zonal meetings organized by the NMCP. A major issue is the need for intensified supervision to further improve the reporting rate and the quality of data being gathered.
- The project provided on-the-job training to eight participants from CMS and its three regional medical stores in the use of the Supply Chain Manager and PipeLine software programs.
- The project carried out routine monitoring and supervision, and data collection visits to complete the PPMRm and Quarterly Reports.

Mozambique

Long term TA activities implemented addressed improving human resources capacity in logistics and management at CMAM and maintaining and improving malaria commodity logistics management throughout the integrated Via Classica and kit systems.

- The project conducted quantification exercise for antimalarials and RDTs with malaria partners.
- To free up storage space at the central level, the project used its funding to support the MOH in the emergency transfer of 2,300,700 treatments from Maputo Central Warehouse to Beira Central Warehouse.



Warehouse staff prepare AL kits to be distributed to four districts each in Zambezia and Niassa, Mozambique.

- The project supported and assisted CMAM and NMCP to prepare logistics updates and lead malaria working group meetings
- The project continued to conduct a physical inventory of antimalarials and RDTs at the Central level warehouses and reports information quarterly to the PPMRm.
- In collaboration with *Central de Medicamentos e Artigos Médicos* (CMAM), the project assessed the two options piloted for AL distribution in four districts in Zambezia and four districts in Niassa. The pilot was conducted for four months, from October 2008 to January 2009. A total of 338 health workers (prescribers, laboratory agents, pharmacists) and 66 community health workers were trained for the pilot. The analysis of the results of the pilot showed that the AL kit system is the best option. The project started supporting CMAM by procuring materials and packing AL Kits at central level warehouses. The project procured materials, provided training, hired packers, established packing lines, and packed AL Kits in the report period.
- The project trained 4 JSI staff and 10 manual laborers in Maputo and 5 CMAM staff and 13 manual laborers in Beira in the kitting operations.

Rwanda

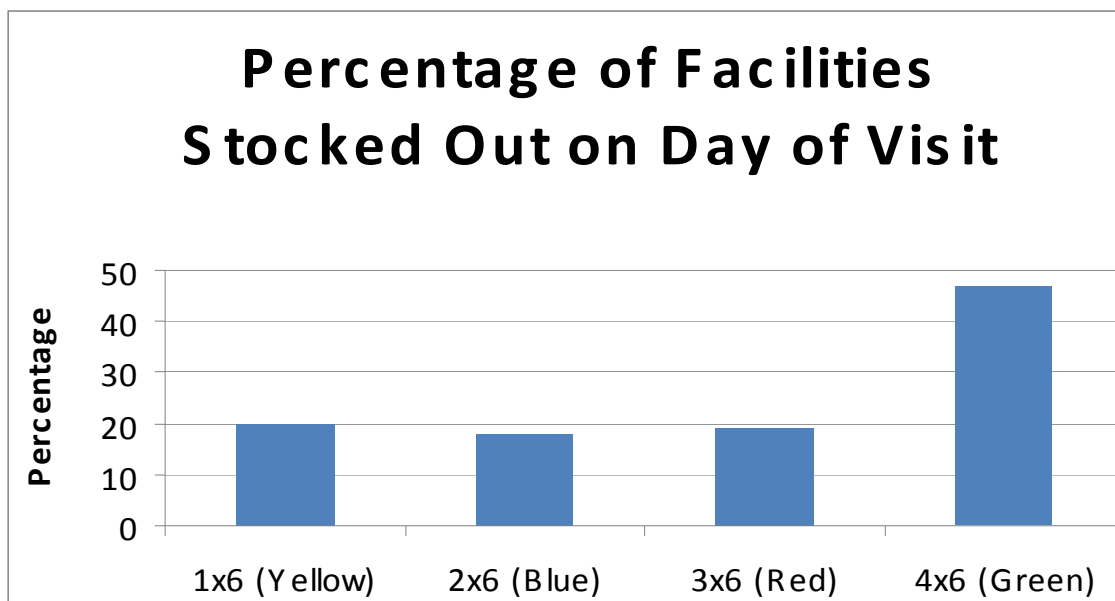
- The project delivered 422 storage guidelines for health commodities to 27 of the 30 health districts. The guidelines are used at district hospitals and health centers to improve their storage conditions for all commodities, including ACTs and RDTs for malaria case management.
- The project conducted a local procurement for 6,176 home-based management (HBM) kits for community health workers (CHW), under the Expanded Impact Project (Kabeho Mwana).
- The project conducted routine supervision and monitoring of all commodities at the facility level. The objective was to improve the commodities management and the reporting rate for the commodities.
- The field office, led by the IT/Data Manager, continued to implement the Supply Chain Manager Software at the central level. The plan is to eventually use the software for malaria products when teams can start collecting the logistics data for those products.
- The project facilitated the purchase of 124 thermometers to monitoring warehouse temperature and promote good warehousing practices for all commodities.
- A technical advisor facilitated the Pre Service Initiative, which introduces logistics into the curriculum of future pharmacists, nurses and health workers. The advisor conducting a Pre Service assessment, then met with stakeholders to plan and prepare for the implementation. Incorporating supply chain management into health professional education ensures that the professionals have the required skills to manage health commodities when they take up their posts, limiting the need to provide continual system training to reach new and/or transferred staff.
- The project also conducted a two week long Supply Chain Management Course, which was facilitated by two technical advisors from the Home Office. 24 participants, who came from various programs and organizations, attended the course.

Tanzania

The project provided technical assistance to the NMCP during the past year. On the mainland, the project continued providing technical assistance in monitoring distribution of Artemether Lumefantrine (AL) and integrating AL into the Integrated Logistics System (ILS), and transitioning AL from a centrally managed “push” system to a facility-level-driven “pull” system.

- During this past year, the project continued providing assistance to MSD for monitoring zonal stock levels, prepositioning commodities in the zones, revising zonal max/min levels in the light of more data becoming available, having additional packing lines put in place at the zonal levels and more regions shifting to the ILS that would include AL. This ensured that products were continuously available at the zones to resupply facilities directly instead of facilities coming all the way to the central level for resupply. This effort provided a reduction resupply lead and reduced the frequency of stock outs.
- Other activities included supporting commodity availability and data flow through the use of R&R (requisition and reporting form) and ledger books in the facilities. This was achieved by supporting the training on R&R and inclusion of ACT into ILS.
- The project also collaborated with NMCP/PSU to monitor product availability at lower level facilities.
- Product availability at the central level was reported through the PPMRm as an early warning tool to identify and take appropriate actions to prevent stock outs.
- Through the initial piloting and subsequent quarterly implementation of the PMI End-Use verification activity, selected facility level site visits were carried out using a combined team of NCMP and PSU staff and also project staff. These teams participated in both data collection and analysis. A sample of 20 facilities was visited each quarter to monitor stock levels and assess the quality of case management. The availability of data from the facilities provided information on the resupply processes, product distribution and availability at the facilities. The table below provides the percentage of facilities that faced a stock out in the third quarter End Use Verification Exercise.

Figure 2: Sample EpiSurveyor Automated Analysis Chart



- To improve product availability in the public and private sector, the project was involved in the annual quantification of antimalarial treatment in both the public and private sectors. These treatment projections were used in the AMFm and GFATM proposals and in the PMI MOP planning process.
- Through the quantification and procurement planning process, a projection of the commodity needs was made with accompanying cost estimates to procure these commodities. Thus at NMCP's and USAID's request, the project prepared and presented ACT stock status analyses to determine the potential funding

gap prior to receipt of Global Fund or AMFm product. As a result of the analyses, an additional \$3 million in PMI funds for ACT has been allocated and procurement initiated.

- The project provided guidance to other implementing partners in supply chain management procurement activities and the preparation of training and supervision materials.
- The country office supported the training of 3,386 health workers in the integrated logistics system (ILS), which replaced a vertical logistics system, and updated the ordering procedures for commodities, including Coartem. The project also held a training-of-trainers (TOT) for 24 participants, held sensitization meetings for the District Medical Officers, and had preliminary visits with the zonal training center to coordinate trainings.
- The project followed up to ensure that the USAID-procured products for UNHCR; the Accredited Drug Dispensing Outlet (ADDO), Zanzibar; and for research activities (e.g., RDTs being used on the mainland or treatments for severe malaria in children) are delivered within a reasonable time in-country.

Zambia

In Zambia, the USAID | DELIVER PROJECT Task Order 3 technical assistance is designed to support the strengthening of country supply systems with a focus on two primary objectives this year: It collaborates with GRZ, MSL and USAID | DELIVER PROJECT Task Order 1 to pilot and evaluate logistics management



systems for essential drugs, including anti-malarial medications and rapid diagnostic tests (RTDs), across the country, and implements short-term intervention strategies to improve product availability. To provide this support, the project implemented the following long-term activities:

- Developing, refining and installing customized LMIS software to effectively manage data supporting the pilot logistics systems for essential drugs, including anti-malarial medications and rapid diagnostic tests (RTDs). The software is currently used in the pilot system.
- Capacity building and assistance with the forecasting and quantification of malaria pharmaceuticals to meet the needs of the country
- Data collection at the sample of sites at the lowest level of the system captures information on actual program implementation, in particular, connecting diagnosis patterns with treatment patterns. We conducted a stock-taking exercise for the essential drugs/malaria pilot that assessed stock levels at 480 facilities in 28 districts. The project created a database to analyze the results of this exercise
- End-use data collection is also used to inform the program and stakeholders about implementation at the lowest levels in limited areas; this data can enhance program development and provide directional information about potential gaps. An ongoing plan is in place with regular reporting. The project developed and tested the End Use tool for M&E. Twenty health facilities were visited in eight districts of two provinces.

- Using PipeLine software to track central-level stocks, the project updated the national pipeline for antimalarial drugs each month. This information is validated by a quarterly physical inventory
- A physical inventory of antimalarial drugs and RDTs at the central level continues every month. Stock availability data is now provided to stakeholders to facilitate planning and inform decision making (PPMRm)
- 668 individuals trained on the supply chain management of essential drugs, including anti-malarial medications and rapid diagnostic tests (RDTs)
- The project developed a geographic information system (GIS) for monitoring and evaluation.
- The project completed a seven-year antimalarial drugs forecast and quantification exercise that addressed partner contributions and identified potential long-term funding gaps. Quarterly reviews will be held for updates and corrections.

Short-Term Technical Assistance

In the context of the Malaria Task Order, STTA generally consists of one- to three-week assignments to help malaria program managers resolve a well-defined problem such as improving in-country distribution, solving storage capacity problems, or carrying out quantification exercises. Even though the assignments are short-term, the emphasis is on developing capacity for the country requesting assistance, and consultants work directly with ministries of health and national malaria programs.

Over the previous twelve months, TO3 has provided STTA in Angola, Benin, Ghana, Liberia, Rwanda, Senegal, Sudan, Tanzania and Zimbabwe. This assistance has focused on facilitating the receipt, clearance and distribution of large shipments of malaria commodities; performing supply chain analyses; conducting needs assessments; and coordinating future activities with Missions and the MOH, often in tandem with other organizations. Of special note, is an emergency Indoor Residual Spraying (IRS) activity in Zimbabwe, supported by the project and conducted jointly with DFID and Crown Agents. This was an ad hoc request identified by a USAID team, which was in Zimbabwe to assess the cholera outbreak.



An IRS team in spraying gear in Hwange, Zimbabwe, January 2009.

- The project monitored the implementation of emergency IRS activities with a 2 month long STTA to support achievement of the 85% room coverage target.
- The project procured 250 sprayers, 25 spare kits, 200 nozzles and 190 nozzle body caps.
- Field staff assisted with carrying out bio-assays to assess the quality of spraying and vector knock down effect in the Rushinga District.
- The project aided the eight provinces to concretely develop future vector control plans and plan for the September 2009 IRS season.

For a more complete description of the project's other STTA efforts, see Appendix E.

Malaria Monitoring Activities

In support of PMI's emphasis on the provision of malaria commodities, TO3 developed and worked to refine two malaria commodity monitoring activities in FY08 which were implemented during the reporting period.



A project staff member interviews a nurse using EpiSurveyor at a health facility in Ghana's Western region, July 2009.

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. The project field tested the End-Use process in Tanzania in January and February of 2009, and the results of the Tanzania pilot indicated that the time and knowledge required to generate the

necessary indicators and compose an appropriate report for this activity created a substantial hurdle toward its regular implementation. Based on these findings, PMI and TO3 sought new methods to alleviate the analysis burden of the End-Use activity, and with this focus in mind, collaborated with DataDyne to adapt their mobile phone data collection software EpiSurveyor for use during the End-Use activity, as it was expected that the use of EpiSurveyor could eliminate much of the time needed for database creation, data entry and analysis, greatly reducing the time needed to produce the regular reports required for this activity.

An initial concept pilot using EpiSurveyor to capture data for the End-Use activity was carried out in Tanzania in April, and based on the recommendations from that pilot, TO3 worked with DataDyne to add several enhancements to EpiSurveyor, including the ability to back the data up to a laptop, and the creation of analysis templates to automatically generate the PMI End-Use indicators. A full pilot of these new enhancements was carried out in Ghana in July and August of 2009, during that country's first quarter of data collection for the End-Use activity. The pilot demonstrated the expected reduction in time needed to complete the activity, and based on these findings, PMI made the decision to roll out the use of EpiSurveyor in the other End-Use countries, beginning with Zambia in the first quarter of FY10.

As of the end of FY09, the End-Use activity had been implemented three times in Tanzania, and once in Ghana and Zambia. Due to political instability, the activity could not be implemented in Madagascar during this time, and due to buy-in and coordination difficulties it had not yet been carried out in Mozambique, Rwanda or Liberia. The project plans to continue to regularly conduct End-Use in the countries that implemented the process in FY09, and to expand the activity in FY10, implementing it in Liberia and possibly Nigeria and Burkina Faso, while seeking a way to move forward in Mozambique and Rwanda as conditions allow.

PPMRm

For central level ACT monitoring, the project adapted the Procurement Planning and Monitoring Report (PPMR), a tool initially developed to provide an early warning of contraceptive stock imbalances. The new tool is known as the Procurement Planning and Monitoring Report for malaria (PPMRm). In the first half of FY09, the USAID | DELIVER PROJECT and SPS country offices began providing quarterly reports on central level stock status of ACTs, and TO3 developed a database which collates the data and produces the corresponding quarterly report. The four quarterly PPMRm's were issued in October 2008, January 2009, April 2009, and July 2009. Each report contained data from a progressively larger number of countries, with the July report presenting data from 12 countries, a number which will increase as the new process becomes routine and the necessary resources for the report are identified in each country. The PPMRm successfully captured current stock outs and looming shortages, and has been used to help make decisions to address these issues.

ACT Quantification Guide and Tool

The proper forecasting and quantification of malaria commodity needs are of high importance to the malaria programs with which TO3 works. To this end, the task order has worked to develop a detailed guide containing a methodology to help countries and programs identify their malaria commodity needs. The manual builds on field level experience from malaria quantification exercises conducted by the project in Ghana, Tanzania and Zambia, and during this reporting period was revised to incorporate feedback from USAID. Additionally, the project is working with Clinton Foundation on testing and improving its ACT forecasting tool. Based on discussions and feedback from the task order, Clinton Foundation updated the front end of their tool and provided it to TO3 to field test in Mozambique. Clinton Foundation also tested it in several of its countries. Based on the feedback from the field tests, Clinton Foundation further enhanced the tool, adding the capacity to export to PipeLine in order to develop a supply plan. After a review meeting in August 2009, it was agreed that the tool required additional work to make it more user friendly, including adding a simple user guide. Once the forecasting tool is finalized, TO3 will develop a learning CD to walk users through its use.

Table 5: PMP Indicators for Technical Assistance and Monitoring, October 1, 2008–September 30, 2009

Support Area	Operational Area	Indicator	Status
STTA	Respond to STTA needs per Mission request to strengthen in-country supply chain management for malaria commodities	Timely response to ad hoc TA needs: % of STTA trips per Mission's/PMI Washington ad hoc request conducted on time	100%
LTTA	In-country supply chain strengthened or improved	Quantity of malaria commodities (LNs, SP tablets, ACT treatments, RDTs) distributed in-country using funds obligated to USAID DELIVER PROJECT	Benin: 835,000 LNs Ghana: 350,000 LNs Liberia: 442,450 LNs Malawi: 6,552,600 ACTs Mozambique: 2,300,700 ACTs

		Kenya: 8,687,790 ACTs* and 2,520,000 SP tablets Rwanda: 550,000 LNs* Nigeria: 706,000 LNs Senegal: 790,000 LNs
	% of countries receiving field support TA funds reporting on availability of malaria (tracer) commodities at SDP/LN outlets	57% (3 of 7 countries reporting through end use** and 1 country reporting through LMIS data)
	% of countries receiving field support TA funds reporting on supply chain performance	43% (3 of 7 countries reporting)**
	Number of staff trained on the supply chain management of malaria commodities	5049
	% of countries with field support TA funds reporting central level ACT stock in quarterly stock monitoring report	83% (5 of 6 countries reporting)***

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

** The tool for providing this information, PMI's End Use Verification, was field tested in the second quarter of FY2009 and was rolled out to two other countries. Given the sanctions imposed by the US government against the Madagascar government, the project can not work with the government to implement this activity. Mozambique agreed to begin this activity in FY10 and Rwanda has not given its support for end use monitoring.

*** Of the eight TO3 countries, Rwanda does not allow the project access to this data because the ACTs are procured through the Global Fund; Madagascar was removed from the calculation because they do not hold central ACT stock.

Objective 3: Improving the Global Supply of Malaria Commodities

Roll Back Malaria Partnership (RBM) and the Procurement and Supply Chain Management Working Group (PSM-WG)

As a member of the Roll Back Malaria Partnership (RBM) and the Procurement and Supply Chain Management Working Group (PSM-WG), TO3 participated in two meetings during the reporting period: a November 17 conference call discussing bottleneck resolution, the LN questionnaire, grant signing updates, API market mapping, various procurement guidelines and AMFm; as well as a PSM-WG meeting in Geneva in February, which covered the following agenda items:

Under the RBM-PSM working group, a work stream has been created on the sustainable life-cycle management of LNs. The USAID | DELIVER PROJECT has provided resources, working in collaboration with WHO, for finding effective replacement/recycling strategies for LNs by playing a key role in this initiative. Support provided includes identifying international stakeholders that could bring the technical expertise (e.g. New Fields), such as finding approaches to make this initiative financially sustainable (e.g. Acumen Funds). Monthly conference calls are organized to focus on technical and logistic issues on the various aspects as we move forward. An illustrative poster has been developed in conjunction with WHO that will be presented at various conferences to bring awareness to the issues.

Pilot Public/Private Partnership to Recycle LNs

Task Order 3 (TO3) is developing a pilot project aimed at testing a public/private partnership to implement a potential solution to recycle LNs. TO3 is working in collaboration with representatives from TREX, a manufacturer that produces plastic-composite wood decking. After discussions with TREX about the issue the global community is facing, they agreed to consider using retired LNs and bags as part of their manufacturing and recycling processes. Currently PMI is looking for a country to test the concept.

Foundation for Innovative New Diagnostics (FIND) Activities

A final report documenting the capacity for external quality assurance (EQA) lot-testing of malaria RDTs in the Ethiopian Health and Nutrition Research Institute (EHNRI) was received by the project. The laboratory was inspected in January 2009 by two FIND consultants and received a general EQA indicator score of 87%. As of May 2009, PMI has begun sending samples there for testing. Members of Task Order 3 participated in a February meeting with FIND to discuss the preliminary results of the RDT testing. While final data analysis is underway, results clearly indicate the following:

1. The majority of RDTs can detect evaluation panel samples of *P. falciparum* at 2000 parasites/ μ l, but less than half can consistently detect it at 200 parasites/ μ l.
2. RDTs for *P. falciparum* based on detection of HRP-2 performed better than those based on pLDH.
3. Some of the 22 combination tests were able to detect both *P. falciparum* and *P. vivax* consistently at low parasite density (200 parasites/ μ l).
4. Most RDTs showed acceptable specificity and low rates of invalid results.
5. Test performance did not vary significantly between lots tested.

Alliance for Malaria Prevention (AMP) Activities

Task Order 3 also sent participants to the AMP meeting in Geneva in February. The meetings discussed the progress report on LN delivery in 2008, the coordination of partner support for 2009 activities and the challenges faced in LN scale-up to date and solutions moving forward. A joint presentation entitled “LNs Pull-back Recycling /Disposal” was given in collaboration with WHO at the meeting.

The USAID | DELIVER PROJECT participates in the weekly Alliance for Malaria Prevention (AMP) conference calls which focus on technical/quality issues of net campaigns and serves as a repository where countries can share best practices towards universal coverage and lessons learned, and request technical support.

MMV- Artemisinin Enterprise Conference

A meeting attended by TO3 staff in York, UK in October explored new sources of artemisinin, and discussed the introduction of new technologies for a sustainable supply of ACTs.

WHO - Artemisinin Forum 2008

The Ensuring Sustainable Artemisinin Production meeting was held November 24-26 in Guilin, China. TO3 participated in this important meeting that covered possible solutions to ensure the sustainability of artemisinin production.

WasteExpo

WasteExpo is a U.S. government-sponsored event took place June 8-10 in Las Vegas, Nevada. The purpose of the conference is to foster connections and brainstorming among private waste management companies, governments (both foreign and domestic), transportation providers, science and technology firms, and equipment manufacturers to solve current waste management challenges.

Representative from the Global Environmental Facility of the United Nations Development Program (GEF-UNDP) we present at the conference and agreed to collaborate in the sustainable management of nets life-cycle initiative. GEF-UNDP is currently doing research on possibilities to safely recycle plastic health care waste. They agreed at the conference that LNs should be considered health care waste and subsequently received approval from the UNDP to collaborate with us on this initiative. This was a major achievement since GEF already commands a wealth of experience and expertise in designing plastics recycling projects in developing countries.

Table 6: PMP Indicators for Supporting Global Supply and Availability Initiatives, October 1, 2008–September 30, 2009

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	13
	Number of technical reports or tools developed to support global and regional malaria initiatives.	5

Performance Monitoring

The project monitors its performance in two ways. First, it establishes a set of deliverables with dates of submission at the beginning of each annual workplan period. This is summarized in a table that outlines all deliverables and is reported against in the semi-annual and annual reports. TO3's COTR vets the deliverables to ensure that they respond to USAID's monitoring needs, and 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. Table 7 presents the agreed-upon deliverables and their status for this reporting period.

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 FY 2009, and detailed data sources, frequency of collection and calculation instructions in the accompanying Quality Assurance Surveillance Plan (QASP), which also provides additional guidance on indicator definition, 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. The project began tracking these indicators and has included the results for the reporting period 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 on the best way to address any issues. A country-by-country review of all ongoing procurement actions is conducted and their status is updated on the Current Actions Table, which is then made available every week to PMI and project managers.

Table 7: Deliverable Status for FY2009

DELIVERABLE	DUE	STATUS
Objective I		
Procurement scorecard	Reported in Semi-annual Report (May 15, 2009) and Annual Report (November 15, 2009)	Submitted in semi-annual report.
Updated list of pre-approved vendors for malaria commodities	RDTs: TBD	Agreed to wait until WHO provides further guidance on acceptable RDT standards
	LN: September 30, 2009	Updated LN pre-approved list of qualified vendors by LN brand in September 2009
	Pharmaceuticals: February 28, 2009	Added Coartem dispersible and Sanofi Aventis/ Africasoins AS/AQ FDC to approved vendor and product list
Revised Commodity Procurement Information Request (order form)	Nov 30, 2009	Updated as required by commodity. Updated CPIRs included in Appendix A

Product Fact Sheets	December 5, 2008 September 30, 2009	Fact sheets currently include all products for which there is a waiver
Freight rate validation study	Reported in Annual Report (November 15, 2009)	Report for FY 09 using revised approach of validating every 4 th shipment is included in Appendix C.
Test reports on retained Guilin samples (USP)	November 15, 2008; April 30, 2009; October 31, 2009	Received all reports as scheduled
RDT manufacturer QA site visit report and recommendation	September 30, 2009	Final draft report of both ICT and Orchid submitted for comments
QA Report Card	Reported in Semi-annual Report (May 15, 2009) and Annual Report (November 15, 2009)	Included in annual report (Appendix E)
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
Supply Ops SOPs Procedures for QMS implementation QMS Implementation Status Report	May 15, 2009	Sent to IQC and TO COTRs on May 13, 2009
Objective 2		
Timely mobilization and response to USAID requests for technical assistance	Periodic	One ad hoc request filled for Zimbabwe
Updated country work plans	Nov 15, 2008; Oct 31, 2009	FY 09 work plans submitted by November deadline and Mission approval provided to COTR; FY 10 work plans submitted on October 30, 2009 and sent to Missions for approval (9 presence countries)
End Use Verification Reports	April 30, 2009; July 31, 2009; October 31, 2009	Reports available for Tanzania (pilot and 2 more quarters), Zambia (1 quarter), and Ghana (1 quarter).
DataDyne Episurveyor updated for End Use data collection and analysis tool designed	September 30, 2009	Report on Episurveyor pilot in Ghana and tool development submitted September 30, 2009
ACT Quantification Tool and Reference CD		Met with Clinton Foundation August 11 th . Tool now exports to PipeLine but still required further revisions. Updated tool

<ul style="list-style-type: none"> Link with Pipeline and curriculum for reference CD developed Final CD complete 	<p>Sept 30, 2009</p> <p>2nd quarter FY10</p>	<p>reviewed in Liberia and bugs identified. Curriculum development on hold until tool finalized.</p>
Optimization or simulation deliverables and policy brief	January 2010	Field work undertaken in Malawi in September/October using field support funds, draft FY 10 work plan includes undertaking field work in an additional country and preparing a policy brief
Case study report on reducing use of monotherapy artemisinin drugs	FY 2010	No work undertaken during the reporting period, currently included in draft FY 10 workplan
Malaria section of JO course	August 2009	Course conducted in August; course goal and objectives, evaluation, participant list and malaria session submitted in September 2009
Malaria supply chain logistics curriculum	FY 2010	No work undertaken during the reporting period, currently included in draft FY 10 workplan as guidelines
PPMRm reports	January 2009; April 2009; July 2009; October 2009; January 2010; April 2010	Completed reports submitted in January, April, July and October. October report includes all project presence countries except Madagascar (political sanctions) and Rwanda (no access to data)
Objective 3		
RDT storage guidelines (central and health clinic levels)	July 2009	Complete
WasteExpo briefing note on LN retirement and disposal options	August 2009	Submitted in August.
IRON meeting briefing note with recommendations for PMI support of LN life cycle efforts	October 2009	IRON meeting canceled so no briefing note prepared; prepared LN life cycle poster to present at MIM and ASTMH conferences
Other		
Work plan for FY2009	Draft due September 30, 2008	Submitted draft by deadline. Finalized in January 2009
Annual Report for FY2009	Draft due November 15, 2008	Submitted draft by deadline. Finalized in January 2009
Semi-Annual Report for FY2009	Draft due May 15, 2009	COTR approved extending the deadline to May 26, 2009. Report submitted by revised deadline
Work plan for FY2010	Draft due September 30, 2009	Renegotiated deadline of October 31, 2009, draft submitted October 30, 2009
Annual Report for FY2009	Draft due November 15, 2009	Draft submitted November 13, 2009

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 standardization of all operational procedures, 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 President's Malaria Initiative over the last year:

- Procured commodities worth \$64,603,472, which is almost a doubling of procurement value from the previous 12 month period (FY2008). During the last 12 months, the project procured for 19 countries; Angola, Benin, the Democratic Republic of the Congo (DRC), Ethiopia, Ghana, Kenya, Liberia, Madagascar, Malawi, Mali, Mozambique, Nigeria, Rwanda, Senegal, Sudan, Tanzania, Uganda, Zambia and Zimbabwe. This included 32,550,970 treatments of malaria pharmaceuticals for twelve countries and Zanzibar; 6,639,600 LNs for 13 countries; 5,234,000 RDTs for seven countries; and various quantities of severe malaria medicines, MMKs and laboratory equipment for five countries.
- In Angola, the project ensured the secure delivery of 1.88 million treatments of Coartem to Angomedica, acquiring the required waivers to land a charter plane and directly load trucks on the tarmac, bypassing the ENANA customs warehouse. In August, the project developed a draft plan to deliver directly to the provincial level, limiting the need for central level storage at Angomedica.
- In Benin, the project cleared from port and delivered three consignments, totaling 835,000 LNs, to 35 health zones (sub-districts). Each consignment was distributed within a week of arrival.
- In Liberia, the project procured, cleared, and transported 430,000 LNs to districts in Grand Bassa, Lofa and Nimba counties. It also provided financial and logistical support for door-to-door distribution from the district down to the household level. During this campaign, 230,000 households (approximately 1 million people) were reached with 426,096 LNs, representing 72% coverage of the target population. Ninety-nine percent of the 430,000 PMI-funded LNs were distributed through the campaign. The CHTs will distribute the remaining nets through ANC clinics.

To enhance the health commodity supply chain management, the project supported the roll out of Liberia's integrated standard operating procedures for health commodities. This included facilitating a training of trainers workshop on the SOPs and the training curriculum (training 30 master trainers), conducting baseline assessment with NMCP, and providing technical support and monitoring of the roll out training.

- In Malawi, the project continued to strengthen the LMIS and provide monthly stakeholders reports summarizing stock availability by district and facility level stock out rates for ACTs, SP and quinine.
- In Mozambique, the project piloted two options for AL distribution in four districts in Zambezia and four districts in Niassa. The analysis of the results of the pilot showed that the AL Kit system was the best option. The project procured the kit materials, transported the materials to the two kitting warehouses, and began assembling the kits that will be transported in October to provinces for distribution to lower levels.

- In Senegal, the project assisted the National Malaria Control Program of Senegal and other partners in the planning and execution of, clearance, receipt, storage and distribution of 790,000 LNs and printed materials procured by PMI and four other partners. The LNs and materials were distributed to seven districts in Senegal.
- In Tanzania, TO3 continued providing assistance to MSD for monitoring zonal stock levels, prepositioning commodities in the zones, revising zonal max/min levels in the light of more data becoming available, having additional packing lines put in place at the zonal levels and more regions shifting to the ILS that would include AL. This ensured that products were continuously available at the zones to resupply facilities directly instead of facilities coming all the way to the central level for resupply. This effort provided a reduction resupply lead and reduced the frequency of stock outs.
- In Zambia, the project implemented the Malaria/Essential Drugs Logistics System (EDLS) pilot. Two versions of the system are being tested in selected districts in the Country – Version A (DHO is holding stock) and Version B (DHO is a cross dock). The project conducted a baseline stock-taking exercise that assessed stock levels at 480 facilities in 28 districts. In addition, the project trained district health offices, hospital and health center staff in the EDLS--668 individuals trained on the supply chain management of essential drugs, including anti-malarial medications and rapid diagnostic tests (RTDs).
- In Zimbabwe, the project supported a highly successful emergency indoor residual spraying (IRS) campaign. District's achieved 84% room coverage, with twelve of twenty districts achieving the 85% targeted room population. Approximately 930,000 people were covered, and the NMCP estimates that 3-4,000 deaths will be averted thanks to the quick action of the emergency IRS. This was achieved in spite of considerable challenges, including: significant economic and social upheaval, a concurrent cholera epidemic, and the necessity of conducting the campaign during the rainy season and at an accelerated pace (conducted in two months rather than the typical five month period).
- In Ghana, the project successfully piloted using EpiSurveyor, software which enables data collection via cell phones, for the End Use monitoring activity. The pilot included developing an automated analysis tool for the End Use indicators. It was found that data collection using cell phones took less time than using paper forms and the data quality was similar to the data collected using paper forms. It also eliminated the time required for data entry and reduced the time required for analysis. Given the positive results, the project will roll out EpiSurveyor in other PMI countries starting with Zambia.
- The project supported the End-Use Malaria Monitoring Activity (EMMA) in Ghana, Tanzania and Zambia. In Tanzania, three quarters of data has been collected. In Ghana and Zambia, one quarter of data was collected in each country.
- TO3 provided four 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 summarizes 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. The number of countries reporting increased to 12 during the last quarter.
- The project's rigorous QA approach identified a potential product quality issue with some SP intended for Mali. Initial test data indicated out-of-compliance dissolution results for the SP. A laboratory investigation revealed that the failure occurred with some of the testing equipment and the product was re-analyzed and found to meet British Pharmacopeia standards.
- The project rapidly responded to a quality complaint from Zanzibar about an issue with one lot of RDTs. A QA investigation was conducted and ultimately the manufacturer voluntarily replaced the product.

- TO3 participated in a number of international malaria meetings to address and improve the global supply of malaria commodities.
- The project published RDT storage and management guidelines for both the central and facility level.
- The project, working in collaboration with WHO, has actively exploring with other partners, including manufacturers, options for effective replacement/recycling strategies for LLINs. Support provided includes identifying international stakeholders that could bring the technical expertise (e.g. New Fields) and finding approaches to make this initiative financially sustainable (e.g. Acumen Funds). The project also identified a potential public private partnership with TREX, a manufacturer that produces plastic-composite wood decking, who is interested in using recycled LNs in their manufacturing process. The project is working with USAID to identify a country to undertake a proof of concept for this partnership.

Implementation Issues and Solutions

Managing expectations: procurement and system strengthening

During the reporting period the project continued to face challenges in managing expectations both under Objective 1 and Objective 2 activities. Under Objective 1, 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;
- obtaining a source/origin waiver for every new source of pharmaceutical that is identified.

The project used various methods to communicate this information including individual communication through e-mail and phone conversations, a presentation at PMI's malaria 101 series, preparation of the procurement guidelines, and procurement sessions for the project's country management teams and during the Junior Officers' short course.

Another challenge encountered during the reporting period is the increasing need to track and report funding and expenditure by individual commodity type. The project receives a lump sum for commodity procurement by country, not distinguished by commodity type. However, increasingly Missions are looking toward the project to 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) 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 as soon as it is available 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.

Under Objective 2, the project continued to work with USAID Missions, PMI, NMCP and other key stakeholders to better define performance expectations, align these with funding levels, and discuss both short and long term strategies to ensure the availability of key malaria commodities for those in need. In Ghana, after discussion with various stakeholders within the Mission (PMI, RH and HIV/AIDS), TO3 agreed to develop a performance improvement plan (PIP) for the project field office to clarify Mission expectations and measure progress against meeting those expectations. The project provided STTA during the PIP period and successfully completed the PIP in January 2009. The Mission recently expressed their satisfaction with the project's responsiveness and overall performance during the last two quarters of FY 2009.

Another challenge faced was planning for the door-to-door LN distribution in Liberia. This distribution approach is costly—the International Federation of the Red Cross estimates it costs \$2.50 per net—and took considerable time and discussion with the NMCP and the Mission to agree to a budget and the resources required to manage the effort. This delayed the launch of the distribution; a budget and agreement on the resources required was only finalized two weeks before the LNs were due to arrive in Liberia. The project was able to successfully support the distribution of the LNs, and all parties agreed to learn from the challenges faced during the planning and LN distribution so similar issues will not impact the next LN procurement and distribution (scheduled for March/April 2010).

Finally, in a number of countries where the MOH has decided to support an integrated supply chain for all health commodities, the project has struggled with an effective strategy to communicate how support to an integrated system benefits PMI and helps to achieve PMI's goals. To address this issue more systematically, TO3 prepared malaria specific work plans with narratives that tied activities to the MOP and PMI's objectives. The work plans also provided financial figures for the cost of the key activities, which helped to clarify what can be accomplished with the funds provided. This same format was used when preparing the FY 2010 country work plans.

In addition to defining expectations, 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
- Malawi: Through the project's routine monitoring and supervision, reporting rates and data quality for the LMIS of malaria commodities have greatly improved. However, with the Global Fund (GF) now in charge of ACT procurement for Malawi, it will be more challenging for the project to use the data to prevent shortages of malaria commodities.
- Mozambique: change in labor laws meant that a key staff member who was leading the project's malaria activities was not able to continue working in country
- 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.

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.

Defining Procurement Roles and Responsibilities

Over the last six months, the project has experienced some issues around clarity of the roles and responsibilities of in-country partners in the procurement and clearance process. In two separate cases, this led to products remaining in port for an extended period and incurring demurrage charges. To address this, the project proposes to visit non-presence and new countries to review the process with stakeholders and to identify for each step in the process which partner will be responsible.

Establishing sound QA SOPs that remain flexible enough to respond to ever changing commodity environment

Malaria commodities are a particularly challenging set of products from a quality assurance stand point. RDTs are a relatively new technology, with under-tested standards (field and laboratory use) and no specific regulatory body overseeing their production. Artemisin is also a relatively new ingredient in malaria treatment and testing protocols are still under development and in some cases controlled by the innovator company. LNs have both textile and pesticide standards that must be met and limited field data to support industry claims of efficacy. Given the diversity and evolving nature of these products, the project struggles to balance the need to provide safe and effective products with the cost and timeliness of the QA procedure. In response to this diverse set of products, the project has developed SOPs for each product line. These are reviewed regularly during a partner stakeholder meeting, and with the project's COTR and TA as needed. The SOPs are rigorous yet flexible—with changes on such things pre-shipment versus concurrent testing based on the product, source of product and other regulatory and pre-qualification approvals. As the project moves into procuring more severe malaria treatments and respond to new data (e.g. WHOPES, WHO/FIND/CDC), striking an appropriate balance will continue to be a challenge.

MIS: Date Alignment in the DelPHi System

In the fall of 2008, we identified a number of discrepancies related to dates in the DelPHi system. Upon further analysis, it became clear that the majority of the issues stemmed from inconsistencies in labeling of date fields and different interpretations of date information. To solve these problems, the Supply Operations and MIS Teams undertook a comprehensive project to align all system dates across screens and reports. The project also included adjustments to business processes and training for the SOT staff on date field usage. These changes were successfully implemented over the last reporting period.

Planned Performance Objectives for the Next Six Months

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

- Update monthly procurement scorecards and use to monitor procurement performance.
- Update the product tracking sheet, which includes information on waivers, WHO prequalification and GF status
- Conduct an analysis of LN purchasing prices since the inception of the task order
- Provide an in-country workshop for stakeholders in Kenya to orient them on the procurement and clearance process and define each of their respective roles in the process.
- Open a field office in Burkina Faso and provide technical support for the LN distribution campaign and management of malaria commodities
- Launch activities in Burundi, working in partnership with PSI to support routine LN distribution and related IEC/BCC activities
- Roll out the DataDyne EpiSurveyor for collecting End-Use data in Zambia and one other country. This includes developing an automated analysis tool for the End-Use indicators tailored to each country's needs
- Implement an alternative distribution system in Angola that delivers directly to the provinces (with only a short cross-docking in Luanda)
- Update QA scorecard and submit with semi-annual report
- Prepare and submit quarterly PPMRm report
- Identify a country where the project can pilot the TREX public/private partnership including testing a recollection strategy
- Participate in global malaria meetings to provide supply chain perspective
- Present on supply chain management of malaria commodities at the American Public Health Association and American Society for Tropical Medicine and Hygiene conferences

Appendix A:

Commodity Procurement Information Request Forms (CPIRs)

Task Order 3 - Malaria

TITLE: ACTs / Coartem Commodity Procurement Information Request	DOCUMENT No.: DEL-PRO-COMM-03	Requesting Country:	Date:
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PURPOSE

The purpose of this document is to provide product, consignee and country information necessary for procurement, freight, inland clearing and handling. Additionally, all information indicated will be used to create a request for quote and sent to all USAID | DELIVER PROJECT prequalified manufacturers that meet the specifications.

Costs will be provided to you on the basis of the information you provide and will include costs for the commodities and shipping and handling. S&H costs include estimated freight, insurance, clearance, pre-shipment inspection and surcharge.

Product Information

Please indicate item(s) needed below. If a variation from the standard item is needed, please provide details of your preferred specifications.

Item Number	Item Name	Quantity	Variation Required (please provide rationale)
100004	Artemether/Lumefantrine 20mg/120mg, Pill, 6x1 Blister Pack, 30treatments		
100005	Artemether/Lumefantrine 20mg/120mg, Pill, 6x2 Blister Pack, 30treatments		
100006	Artemether/Lumefantrine 20mg/120mg, Pill, 6x3 Blister Pack, 30treatments		
100007	Artemether/Lumefantrine 20mg/120mg, Pill, 6x4 Blister Pack, 30treatments		
100413	Artemether/Lumefantrine 20mg/120mg, Pill, Dispersible, 6x1 Blister Pack, 30treatments		
100414	Artemether/Lumefantrine 20mg/120mg, Pill, Dispersible, 6x2 Blister Pack, 30treatments		

NOTE : For Quantity please specify whether the number entered is for units, packs, kits, treatments or other unit of measure

Packaging and Labeling Requirements

Please review and indicate your acceptance or otherwise provide details of your preferred specifications

	Standard Label Specifications	Accepted (Please check box)	Variation Required (please provide rationale)
Markings:	Tertiary (outer shipping unit) packaging, on three adjacent sides with the PMI Logo.	√	

In Country Distribution or Other Logistics Activities

For any activities or assistance needed for this order which will utilize commodity funds, please indicate the activities that will be performed (e.g. TDY travel & per diem, customs clearance, transport to warehousing, security, etc), the dates during which the activities will take place and the estimated budget for those activities.

Activities	Dates	Planned Budget

Delivery Information

Delivery information must be complete in order to fulfill order request. **Please do not reference a PO Box**, physical addresses only. (However, if this information is not yet known, please send this form in with the above information filled in so order preparation can begin.)

Ship To:					
Name:		State/Province:			
Address:		Country:			
City:		Postal Code:			
Consign To: (Please state whether Consignee will arrange and pay for Customs clearance – if not please give details of responsible party in the Special Delivery Instructions below)					
Agency Name:					
Contact Name:		State/Province:			
Address:		Country:			
City:		Postal Code:			
e-mail:		Phone:		Fax #:	
Desired Delivery Date:					
Special Delivery Instructions (optional):					
Client Information: (Client refers to the agency or party funding the procurement. For example: 'USAID – Angola'.)					
Agency Name:		State/Province:			
Address:		Country:			
City:		Postal Code:			
Contact Name:		Phone #:			
Fax #:		E-mail address:			

Signed (by requesting mission/organization)

_____	_____
Name	Title
_____	_____
Signature	Date

Countersigned (by the recipient organization e.g. Ministry of Health, Malaria Control Program)

_____	_____
Name	Title
_____	_____
Signature	Date
_____	_____
Name of Requesting/Recipient Organization	Official Stamp

Task Order 3 - Malaria

TITLE: Winthrop® FDC AS/AQ Commodity Procurement Information Request	DOCUMENT No.: DEL-PRO-COMM-03	Requesting Country:	Date:
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PURPOSE

The purpose of this document is to provide product, consignee and country information necessary for procurement, freight, inland clearing and handling. Additionally, all information indicated will be used to create a request for quote and sent to all USAID | DELIVER PROJECT prequalified manufacturers that meet the specifications.

Costs will be provided to you on the basis of the information you provide and will include costs for the commodities and shipping and handling. S&H costs include estimated freight, insurance, clearance, pre-shipment inspection and surcharge.

Product Information

Please indicate item(s) needed below. If a variation from the standard item is needed, please provide details of your preferred specifications.

Item Number	Item Name	Quantity	Variation Required (please provide rationale)
100444	Artesunate/Amodiaquine, FDC, 25 mg/67.5 mg, 3 tablets/blister, packs of 25		
100445	Artesunate/Amodiaquine, FDC, 50 mg/135 mg 3 tablets/blister, packs of 25		
100446	Artesunate/Amodiaquine, FDC, 100 mg/270 mg, 3 tablets/blister, packs of 25		
100447	Artesunate/Amodiaquine, FDC, 100 mg/270 mg, 6 tablets/blister, packs of 25		

NOTE : For Quantity please specify whether the number entered is for units, packs, kits, treatments or other unit of measure

Packaging and Labeling Requirements

Please review and indicate your acceptance or otherwise provide details of your preferred specifications

	Standard Label Specifications	Accepted (Please check box)	Variation Required (please provide rationale)
Markings:	Tertiary (outer shipping unit) packaging, on three adjacent sides with the PMI Logo.		

In Country Distribution or Other Logistics Activities

For any activities or assistance needed for this order which will utilize commodity funds, please indicate the activities that will be performed (e.g. TDY travel & per diem, customs clearance, transport to warehousing, security, etc), the dates during which the activities will take place and the estimated budget for those activities.

Activities	Dates	Planned Budget

Delivery Information

Delivery information must be complete in order to fulfill order request. **Please do not reference a PO Box**, physical addresses only. (However, if this information is not yet known, please send this form in with the above information filled in so order preparation can begin.)

Ship To:			
Name:		State/Province:	
Address:		Country:	
City:		Postal Code:	
Consign To: (PLEASE STATE WHETHER THE CONSIGNEE WILL ARRANGE AND PAY FOR CUSTOMS CLEARANCE – IF NOT PLEASE GIVE DETAILS OF RESPONSIBLE PARTY IN THE SPECIAL DELIVERY INSTRUCTIONS BELOW)			
Agency Name:			

Contact Name:		State/Province:	
Address:		Country:	
City:		Postal Code:	
e-mail:		Phone:	
		Fax #:	
Desired Delivery Date:			
Special Delivery Instructions (optional):			
Client Information: (Client refers to the agency or party funding the procurement. For example: 'USAID – Angola'.)			
Agency Name:		State/Province:	
Address:		Country:	
City:		Postal Code:	
Contact Name:		Phone #:	
Fax #:		E-mail address:	

Signed (by requesting mission/organization)

Name

Title

Signature

Date

Countersigned (by the recipient organization e.g. Ministry of Health, Malaria Control Program)

Name

Title

Signature

Date

Name of Requesting/Recipient Organization

Official Stamp

Task Order 3- MALARIA

TITLE: Bed Nets Commodity Procurement Information Request	DOCUMENT No.: DEL-PRO-COMM-01	Requesting Country:	Date:
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PURPOSE

The purpose of this document is to provide product, consignee and country information necessary for procurement, freight, inland clearing and handling. Additionally, all information indicated will be used to create a request for quote and sent to all USAID | DELIVER PROJECT prequalified manufacturers that meet the specifications.

Costs will be provided to you on the basis of the information you provide and will include costs for the commodities and shipping and handling. S&H costs include estimated freight, insurance, clearance, quality assurance and surcharge.

Product Information

Please review and indicate your acceptance or otherwise provide details of your preferred specifications

	Standard Specifications	Accepted (Please check box)	Variation Required (please provide rationale)
Net material:	Polyethylene or Polyester <i>(Please check box if either material is acceptable. If not, please indicate which material is required.)</i>		
Net shape:	Rectangular		
Colors:	White		
Impregnation:	Long lasting ITNs		
Impregnation insecticide:	Any WHOPEs recommended impregnation insecticide		
Dimensions:	<i>See below for product list. Please indicate size required in next box.</i>		

Quantity Desired:		Desired Delivery Date:	
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Packaging and Labeling Requirements

Please review and indicate your acceptance or otherwise provide details of your preferred specifications

	Standard Specifications	Accepted (Please check box)	Variation Required (please provide rationale)
Markings:	Bale (tertiary packaging), on three adjacent sides with the PMI Logo.		

In Country Distribution or Other Logistics Requirements

For any activities or assistance needed for this order which will utilize commodity funds, please indicate the activities that will be performed (e.g. TDY travel & per diem, customs clearance, transport to warehousing, security, etc), the dates during which the activities will take place and the estimated budget for those activities.

Activities	Dates	Planned Budget

Delivery Information

Delivery information must be complete in order to fulfill order request. **Please do not reference a PO Box**, physical addresses only. (However, if this information is not yet known, please send this form in with the above information filled in so order preparation can begin.)

Ship To:					
Name:		State/Province:			
Address:		Country:			
City:		Postal Code:			
Consign To: (PLEASE STATE WHETHER THE CONSIGNEE WILL ARRANGE AND PAY FOR CUSTOMS CLEARANCE – IF NOT PLEASE GIVE DETAILS OF RESPONSIBLE PARTY IN THE SPECIAL DELIVERY INSTRUCTIONS BELOW)					
Agency Name:					
Contact Name:		State/Province:			
Address:		Country:			
City:		Postal Code:			
e-mail:		Phone:		Fax #:	
Special Delivery Instructions (optional):					
Client Information: (Client refers to the agency or party funding the procurement. For example 'USAID – Angola'.)					
Agency Name:		State/Province:			
Address:		Country:			
City:		Postal Code:			
Contact Name:		Phone #:			
Fax #:		E-mail address:			

NOTE: The USAID | DELIVER PROJECT has pre-qualified the following six LLIN manufacturers:

BASF	-	Interceptor ®
Bestnet Europe (Intection)	-	Netprotect ®
Clarke Mosquito	-	DuraNet ®
Sumitomo Chemical	-	Olyset ®
Tana Netting	-	DawaPlus ®
Vestergaard Frandsen	-	PermaNet ®

All of these manufacturers have, as a minimum, WHOPEs Stage I approval. Please give below a brief statement confirming the WHOPEs status LLIN that is required and the reason why – e.g. National Malaria Control Program standards require a WHOPEs level of _____

Signed (by requesting mission/organization)

Name

Title

Signature

Date

Countersigned (by the recipient organization e.g. Ministry of Health, Malaria Control Program)

Name

Title

Signature

Date

Name of Requesting/Recipient Organization

Official Stamp

LLIN Product List

Material	Insecticide	Strength	Size	Color	Shape	Ordering Unit
Polyethylene	Permethrin	150 denier	100cm x 180cm x 150cm	White	Rectangular	Piece
Polyethylene	Permethrin	150 denier	130cm x 180cm x 150cm	White	Rectangular	Piece
Polyethylene	Permethrin	150 denier	160cm x 180cm x 150cm	White	Rectangular	Piece
Polyethylene	Permethrin	150 denier	190cm x 180cm x 150cm	White	Rectangular	Piece
Polyethylene	Alpha-cypermethrin	145 denier	70cm x 150cm x 180cm	White	Rectangular	Piece
Polyethylene	Alpha-cypermethrin	145 denier	100cm x 150cm x 180cm	White	Rectangular	Piece
Polyethylene	Alpha-cypermethrin	145 denier	130cm x 150cm x 180cm	White	Rectangular	Piece
Polyethylene	Alpha-cypermethrin	145 denier	160cm x 150cm x 180cm	White	Rectangular	Piece
Polyethylene	Alpha-cypermethrin	145 denier	190cm x 150cm x 180cm	White	Rectangular	Piece
Polyethylene	Deltamethrin	100 denier	130cm x 180cm x 150cm	White	Rectangular	Piece
Polyethylene	Deltamethrin	100 denier	130cm x 180cm x 170cm	White	Rectangular	Piece
Polyethylene	Deltamethrin	100 denier	160cm x 180cm x 150cm	White	Rectangular	Piece
Polyethylene	Deltamethrin	100 denier	160cm x 180cm x 170cm	White	Rectangular	Piece
Polyethylene	Deltamethrin	100 denier	190cm x 180cm x 150cm	White	Rectangular	Piece
Polyethylene	Deltamethrin	100 denier	190cm x 180cm x 170cm	White	Rectangular	Piece
Polyester	Deltamethrin	75 denier	70cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Deltamethrin	75 denier	100cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Deltamethrin	75 denier	130cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Deltamethrin	75 denier	160cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Deltamethrin	75 denier	190cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Deltamethrin	100 denier	70cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Deltamethrin	100 denier	100cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Deltamethrin	100 denier	130cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Deltamethrin	100 denier	160cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Deltamethrin	100 denier	190cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Alpha-cypermethrin	75 denier	160cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Alpha-cypermethrin	75 denier	190cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Alpha-cypermethrin	100 denier	160cm x 180cm x 150cm	White	Rectangular	Piece
Polyester	Alpha-cypermethrin	100 denier	190cm x 180cm x 150cm	White	Rectangular	Piece

Task Order 3 - Malaria

TITLE: RDTs Commodity Procurement Information Request	DOCUMENT No.: DEL-PRO-COMM-02	Requesting Country:	Date:
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PURPOSE

The purpose of this document is to provide product, consignee and country information necessary for procurement, freight, inland clearing and handling. Additionally, all information indicated will be used to create a request for quote and sent to all USAID | DELIVER PROJECT prequalified manufacturers that meet the specifications.

Costs will be provided to you on the basis of the information you provide and will include costs for the commodities and shipping and handling. S&H costs include estimated freight, insurance, clearance, quality assurance and surcharge.

Product Information

Please indicate item(s) needed below. If a variation from the standard item is needed, please provide details of your preferred specifications.

Item Number	Item Name	Quantity No of tests	Variation Required (please provide rationale)

NOTE : Tests are normally supplied in kits of 25 or 50 tests each, dependant upon the manufacturer

Packaging and Labeling Requirements

Please review and indicate your acceptance or otherwise provide details of your preferred specifications

	Standard Label Specifications	Accepted (Please check box)	Variation Required (please provide rationale)
Markings:	Tertiary (outer shipping unit) packaging, on three adjacent sides with the PMI Logo.		

In Country Distribution or Other Logistics Requirements

For any activities or assistance needed for this order which will utilize commodity funds, please indicate the activities that will be performed (e.g. TDY travel & per diem, customs clearance, transport to warehousing, security, etc), the dates during which the activities will take place and the estimated budget for those activities.

Activities	Dates	Planned Budget

Delivery Information

Delivery information must be complete in order to fulfill order request. **Please do not reference a PO Box**, physical addresses only. (However, if this information is not yet known, please send this form in with the above information filled in so order preparation can begin.)

Ship To:			
Name:		State/Province:	
Address:		Country:	
City:		Postal Code:	
Consign To: (PLEASE STATE WHETHER CONSIGNEE WILL ARRANGE AND PAY FOR CUSTOMS CLEARANCE – IF NOT PLEASE GIVE DETAILS OF RESPONSIBLE PARTY IN THE SPECIAL DELIVERY INSTRUCTIONS BELOW)			

Agency Name:					
Contact Name:			State/Province:		
Address:			Country:		
City:			Postal Code:		
e-mail:		Phone:		Fax #:	
Desired Delivery Date:					
Special Delivery Instructions (optional):					
Client Information: (Client refers to the agency or party funding the procurement. For example 'USAID – Angola'.)					
Agency Name:			State/Province:		
Address:			Country:		
City:			Postal Code:		
Contact Name:			Phone #:		
Fax #:			E-mail address:		

NOTE: The USAID | DELIVER PROJECT has pre-approved the following seven RDT manufacturers:

- Access Bio - CareStart ®
- ICT South Africa - Malaria Pf ®
- Inverness Medical - BinaxNOW ®
- Orchid Biomedical Systems - ParaCheck ®
- Premier Medical Corp - First Response ®
- Span Diagnostics - ParaHIT ®
- Standard Diagnostics - Bioline ®

All of these manufacturers have, as a minimum, provided evidence of satisfactory GMP. If you have stated a preference for a particular RDT please give below a brief statement of explanation for your choice.

Signed (by requesting mission/organization)

Name

Title

Signature

Date

Countersigned (by the recipient organization e.g. Ministry of Health, Malaria Control Program)

Name

Title

Signature

Date

Name of Requesting/Recipient Organization

Official Stamp

Task Order 1 – Public Health

TITLE: Pharmaceuticals/Medical Supplies Commodity Procurement Information Request	DOCUMENT No.:	Requesting Country:	Date:
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PURPOSE

The purpose of this document is to provide product, consignee and country information necessary for procurement, freight, inland clearing and handling. Additionally, all information indicated will be used to create a request for quote and sent to all USAID | DELIVER PROJECT prequalified manufacturers that meet the specifications.

Costs will be provided to you on the basis of the information you provide and will include costs for the commodities and shipping and handling. S&H costs include estimated freight, insurance, clearance, pre-shipment inspection and surcharge.

Product Information

Please indicate item(s) needed below. If a variation from the standard item is needed, please provide details of your preferred specifications.

Item Number	Item Name	Quantity	Comments

NOTE : For Quantity please specify whether the number entered is for units, packs, kits, treatments or other unit of measure

Packaging and Labeling Requirements

Please review and indicate your acceptance or otherwise provide details of your preferred specifications

	Standard Label Specifications	Accepted (Please check box)	Variation Required (please provide rationale)
Markings:	Tertiary (outer shipping unit) packaging, on three adjacent sides with the PMI Logo.		

In Country Distribution or Other Logistics Activities

For any activities or assistance needed for this order which will utilize commodity funds, please indicate the activities that will be performed (e.g. TDY travel & per diem, customs clearance, transport to warehousing, security, etc), the dates during which the activities will take place and the estimated budget for those activities.

Activities	Dates	Planned Budget

Delivery Information

Delivery information must be complete in order to fulfill order request. **Please do not reference a PO Box**, physical addresses only. (However, if this information is not yet known, please send this form in with the above information filled in so order preparation can begin.)

Ship To:			
Name:		State/Province:	
Address:		Country:	
City:		Postal Code:	

Consign To: (PLEASE STATE WHETHER CONSIGNEE WILL ARRANGE AND PAY FOR CUSTOMS CLEARANCE – IF NOT PLEASE GIVE DETAILS OF RESPONSIBLE PARTY IN THE SPECIAL DELIVERY INSTRUCTIONS BELOW)					
Agency Name:					
Contact Name:		State/Province:			
Address:		Country:			
City:		Postal Code:			
e-mail:		Phone:		Fax #:	
Desired Delivery Date:					
Special Delivery Instructions (optional):					
Client Information: (Client refers to the agency or party funding the procurement. For example: 'USAID – Angola'.)					
Agency Name:		State/Province:			
Address:		Country:			
City:		Postal Code:			
Contact Name:		Phone #:			
Fax #:		E-mail address:			

Signed (by requesting mission/organization)

Name

Title

Signature

Date

Countersigned (by the recipient organization e.g. Ministry of Health)

Name

Title

Signature

Date

Name of Requesting/Recipient Organization

Official Stamp

Appendix B:

Pre-selected Vendor List

Pre-Selected LNs:

Brand	Polyester	Polyethylene	Denier	Pesticide	Whopes
Interceptor ®	√		75 & 100	Alpha-cypermethrin	II
Netprotect ®		√	115	Deltamethrin	II
DuraNet ®		√	145+/- 5% (138 – 152)	Alpha-cypermethrin	II
Olyset ®		√	150	Permethrin	III
DawaPlus ®	√		75 & 100	Deltamethrin	II
Permanet ®	√		75 & 100	Deltamethrin	II

Pre-Selected Rapid Diagnostic Test Kit manufacturers:

Manufacturer	Brand	Comments
AccessBio	CareStart ®	
ICT South Africa	Malaria Pf ®	
Inverness Medical	BinaxNOW ®	
Orchid Biomedical Systems	ParaCheck ®	
Premier Medical Corp	First Response ®	
Span Diagnostics	ParaHIT ®	
Standard Diagnostics	Bioline ®	

Pre-Selected Pharmaceutical manufacturers/vendors:

Manufacturer/Vendor	Brand	Comments
Novartis Pharma AG	Coartem® FDC	Artemether/Lumefantrine, 20mg/120mg
	Coartem Dispersible® FDC	Artemether/Lumefantrine, Dispersible 20mg/120mg
Sanofi Aventis/Africasoins	Winthrop® FDC	Artesunate+Amodiaquine, four dosage presentations
UNICEF Supply Divn	Various products	
IDA Foundation	Various products	
Missionpharma A/S	Various products	

Appendix C:

Shipment Cost Analysis

Memorandum

To: Lisa Hare, TO3 Director
CC: Dana Aronovich, Project Performance Manager
From: Lois Todhunter, Director of Supply Operations
Date: November 12, 2009
Re: Freight Reasonableness Findings, FY2009

In the Task Order Malaria Workplan (October 2008 to September 2009), a deliverable under Objective 1 is an analysis of the freight charges incurred by the USAID | DELIVER PROJECT.

Background:

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 again this year to compare the rates charged for shipments under the Task Order with rates from other forwarders. The comparison this year was done for every fourth shipment made by UPS. Our Logistics Supervisor has also reviewed UPS rates. Based on last year's recommendations, rate comparison for shipments made by suppliers has been reviewed as part of the procurement process; those shipments are not included in this study.

Methodology:

For the comparative study, our UPS team submitted shipment details. Through a work order with our sub-contractor, The FUEL Group, we received rates for the same origin/destination pairs and shipment weights, which we supplied in a standard form we developed for this purpose. They were not provided with the rates used by UPS. The FUEL Group obtained rates from two or three other forwarders for comparison.

The criteria for gathering rates were that:

- 1) All shipments based on individual movement via individual ("back to back") consolidation and cannot be combined or co-loaded with any other shipments.
- 2) Rates for comparable terms and services.
- 3) US Flag carriers preferred for flights exiting the United States.
- 4) Transit time based on standard freight movement via most direct routing where possible.
- 5) Weekend arrivals avoided where possible.
- 6) Rates in US dollars.

In addition, UPS project staff also request multiple quotes for each shipment when there are multiple possibilities, recommend the most favorable option, and retain the information in their files.

Summary Findings:

The analysis covered six shipments/routings where UPS had provided the freight services, from four origin points; three in the USA, two in Europe and one in South Africa to five countries in Africa. For all shipments, UPS was competitive.

- In four cases, the UPS rate per kilo was the lowest of the three.
- For one shipment, the UPS rate was higher than the average of the other two, though it was lower than the highest rate.
- For one shipment, UPS had the highest rate, though it was competitive with the second rate. In this case, the UPS rate was quoted in Swiss Francs, so that difference may be attributable to the exchange rate at the time of shipment.

Conclusions:

1. We consider that UPS falls within a competitive range on all of the routings examined but one. The competitive range is defined as a rate that is less than the most expensive rate quoted for a route.
2. UPS rates are at or below the average rate in 4 of 6 routings.
3. Overall, UPS rates are deemed to be good value to the Task Order.
4. Performing the freight cost study on a shipment-by-shipment basis at the time of shipping, a procedure implemented for this year's study, shows UPS to be very competitive.

Recommendations:

1. Continue to monitor shipping costs on a shipment-by-shipment basis at the time of shipping to obtain actual competitive rates for the analysis in order to assure best value to the task order.
2. For systematic data gathering, perform the cost comparison on a monthly basis.

Attached: Price Reasonableness Study Tracking Spreadsheet, Air Quote Request Form, Ocean Quote Request Form

Freight Reasonableness Study

Task Order: 3

1. Order Reference #: RO

2. ORIGIN of Shipment (CITY & COUNTRY):

3. Destination of Shipment (CITY & COUNTRY):

4. Shipment Mode: Ocean

5. Delivery Terms:

6. Container size:

7. COMMODITY INFORMATION

	Item Description	Actual Weight in KG
1.		

7. SPECIAL DELIVERY REQUIREMENTS

--

8. QUOTE

	ORGANIZATION	Rates by Kilo
Carrier 1		
Carrier 2		
Carrier 2		

Please provide complete breakdown of quote.

Freight Reasonableness Study

Task Order: 3

1. Order Reference #: RO

2. ORIGIN of Shipment (CITY & COUNTRY):

3. Destination of Shipment (CITY & COUNTRY):

4. Shipment Mode: Air

5. Delivery Terms:

6. COMMODITY INFORMATION

Final shipping weight and dimensions:

	Item Description	Actual Weight in KG	Dimensions LxWxH in centimeters	Chargeable Weight in KG
1.				

7. SPECIAL DELIVERY REQUIREMENTS

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9. QUOTE

	ORGANIZATION	Rates by Kilo
Carrier 1		
Carrier 2		
Carrier 2		

Please provide complete breakdown of quote.

Appendix D:

Quality Assurance Report Card



USAID | **DELIVER PROJECT**
FROM THE AMERICAN PEOPLE

Task Order 3- Malaria

Quality Assurance Report Card Products



LNs (Vestergaard)

Destination	Nigeria-Kano	Rwanda	Rwanda	Senegal	Zambia	Zambia
Number of Lots	15	7	1	16	1	2
Quantity	590,000	524,400	56,700	790,000	78,315	108,235
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	1	0	0
COC Reviewed (100% complete)	12/8/08	11/9/09	11/9/09	5/22/08	1/3/08	10/27/08
Time in days required for pre-shipment physical inspection test reports (from sampling)	19	14	14	18	13	14
Time in days required for pre-shipment chemical inspection test reports (from sampling)	28	25	25	31	23	24
Time in days required from sampling to Certificate of Conformance (completion)	32	28	28	31	43	27
Time in days Certificate of Conformance completed after shipping date	19	15	15	17	40	21

LNs	Destination	Nigeria-Kano	Rwanda	Rwanda	Senegal	Zambia	Zambia
LN Description		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)	Polyester, deltamethrin, 75 dn, (160x180x170), white, rectangular
Supplier		Vestergaard-Vietnam	Vestergaard-Vietnam	Vestergaard-Vietnam	Vestergaard-Vietnam	Vestergaard-Thailand	Vestergaard-Vietnam
Order number		PO-PUC-101	PUP-266	PUP-266	PO-PUP-64		PUP-122
Requisition Order		756	1418	1418	102	71	831
Contact Information							

Shipping Information	Nigeria-Kano	Rwanda	Rwanda	Senegal	Zambia	Zambia
Date Desired In-Country	Feb '09			April	1/28/08	
Sampling date	11/6/08	10/12/09	10/12/09	4/21/08	11/21/07	9/30/08
Scheduled ship date	11/17/08			4/30/08	11/24/07	10/31/08
Actual ship date	11/19/2008	10/25/2009	10/25/2009	5/5/08	11/24/07	10/6/08
Pre-shipment sampling to ship date	13			14	3	6
Arrival date	3/19/09	eta 12/15	eta 12/15	6/20/08	1/28/08	12/19/08
Arrival date -ship date	120			46	65	74

Shipment Inspections	Nigeria-Kano	Tuzanet	Mamanet	Senegal	Zambia	Zambia
Part 1 - document verification	complies	complies	complies	complies	complies	complies
Part 2- Visual Examination	Number of defects	umber of defeamber of defe	Number of defects	Number of defects	Number of defects	Number of defects
Holes in net	0	0	0	4	2	0
Stain (dirty net)	2	0	0	3	1	1
Incomplete hanging loop sewing	3	2	0	4	1	0
Loose Thread / Hole Broken	3	0	0	0	1	1
Plastic Bag damaged	0	0	0	0	5	0
Color-black dots on bottom	3	2	1	2	0	1
Net mis-shaped split seam	4 (trimming)	4 (trimming)	2 (trimming)	2 (trimming)	0	2
	2	3	1	3	2	0
General Inspection Level I-AQL 2.5 (Based on sample size)	Acc 21/Rej 22	Acc 14/Rej 15	Acc 7/Rej 8	Acc 10/Rej 11	Acc 21/Rej 22	Acc 10/Rej 11
Total Defects	17	11	4	9	18	5
Number tested	500	315	125	200	500	200
% defective	3%	3%	3%	5%	4%	3%

PHYSICAL TESTS	SPECIFICATION	Nigeria-Kano	Conical	Rectangular	Senegal	Zambia	Zambia
Date of report		11/25/08	10/26/09	10/26/09	5/9/08	12/4/07	10/14/08
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	26	25	25	25	26	26
Dimensional stability to washing	ISO 3759:1994/ISO 5077/ENISO 6330:2001-veft	-1.5	-0.8	-1	-1.7	-0.8	-4.5
	Weft	-1.7	-1.2	-2.2	-1.3	-1.2	-2.3
Netting burst strength	ISO 13938-2:1999 >250 min kPa	281	374	353	301	427	294
	Inner seam	310	>560	433	387	359	325
	Outer seam	279	424	390	366	359	277
Denier	BS 5441:1998 cl 15 (for information only)	75	100	100	75	100	75
Mass per unit area	ISO 3801:1977 for information only	31	41	42	29	42	29

CHEMICAL TESTS	SPECIFICATION	Nigeria-Kano	Rwanda	Rwanda	Senegal	Zambia	Zambia
Date of Report		12/4/08	11/6/09	11/6/09	5/22/08	12/14/07	10/24/08
Total Deltamethrin content before wash	Within 25% of 55 mg/m2 (41-69 mg/m2)	49	60	60	55	57	44
Total Deltamethrin content after two	Mean - mg/m ² or g/kg (retention) >80% of initial concentration	42	n/a	n/a	46	52	35
Total Deltamethrin content before wash +	+20% concentration	59	-	-	66	69	53
Total Deltamethrin content before wash -	-20% concentration	40	-	-	44	46	35

Lot Information	Nigeria-Kano	Rwanda	Rwanda	Senegal	Zambia	Zambia
Lot number(s)	1 597 8	17439	17539	1 203 8	3 031 7	1 569 8
Bold numbers tested by PSB	1 598 8	17449		1 204 8		1 570 8
	1 603 8	17459		1 210 8		
	1 604 8	17469		1 211 8		
	1 605 8	17479		1 214 8		
	1 606 8	17489		1 217 8		
	1 607 8	17549				
	1 627 8			1 203 8 - 1 218 8		
1 597 8 - 1 607 8						
1 627 8 - 1 631 8						
Lot numbers verified with Deliver website	yes			yes	yes	yes
Hardcopy CA received	yes			yes	yes	yes
Qty	590,000	524,400	56,700	790,000	78,315	108,235
MFD	Oct '08	Sep '09	Sep '09	Apr '08	Sep '07	Sep '08
Status	Complete	Completed	Completed	Completed	Completed	Complete

*retest for dimensional stability

LNs (Vestergaard)

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

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

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

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

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

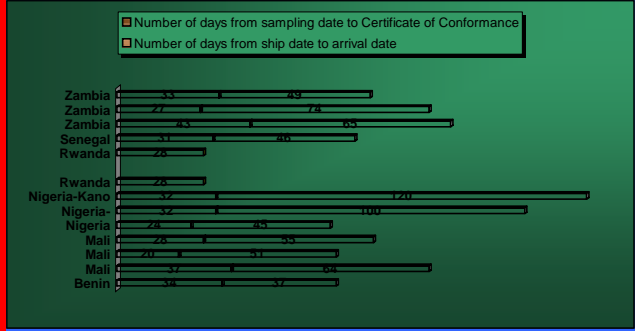
CHEMICAL TESTS	SPECIFICATION	Zambia
	Date of Report	4/24/09
Total Deltamethrin content before wash	Within 25% of 55 mg/m ² (41-69 mg/m ²)	61
Total Deltamethrin content after two	Mean - mg/m ² or g/kg (retention) >80% of initial concentration	n/a
Total Deltamethrin content before wash +	+20% concentration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

Lot Information	Zambia
Lot number(s)	1 203 9
Bold numbers tested by PSB	1 204 9
	1 205 9
	1 206 9
	1 207 9
	1 208 9
	1 203 9 - 1 208 9
Lot numbers verified with Deliver website	yes
Hardcopy CA received	no
Qty	325,000
MFD	Mar '09
Status	Completed

LNs (Vestergaard)	TOTAL
Number of lots	78
Quantity	3,816,450
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	12 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)	31	20 to 43
Time in days Certificate of Conformance completed after shipping date	21	7 to 40

100% of testing completed before shipment arrives in-country



Arrival date -ship date	60	37 to 120
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LN's (Sumitomo)

	Benin	Benin	Benin	Kenya	Madagascar	Uganda	Uganda	Uganda
Destination	Benin	Benin	Benin	Kenya	Madagascar	Uganda	Uganda	Uganda
Number of Lots	7	8	8	21	8	14	9	4
Quantity	280,000	280,000	275,000	550,000	500,000	170,000	180,000	300,000
Lot acceptance rate	100%	100%	100%	100%	100%	100%	100%	100%
Number lots rejected	0	0	0	0	0	0	0	0
Complaints	0	0	0	0	0	0	0	0
Quality investigations	0	0	0	0	0	0	0	0
COC Reviewed (100% complete)	12/22/08	3/4/09	8/21/09	5/8/09	10/9/09	3/28/08	3/28/08	11/4/09
Time in days required for pre-shipment physical inspection test reports	10	14	9	13	10	11	11	8
Time in days required for pre-shipment chemical inspection test reports	25	22	17	19	14	28	28	16
Time in days required from sampling to Certificate of Conformance (completion)	35	29	18	29	14	29	29	16
Time in days Certificate of Conformance completed after shipping date	19	22	3	20	20	14	14	

LN's	Destination	Benin	Benin	Benin	Kenya	Madagascar	Uganda	Uganda	Uganda
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, 160x180x150, blue, rectangular	polyethylene, permethrin, 150dn, 190x180x150cm, rectangular, BLUE/WHITE	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 - Vietnam	Sumitomo - Vietnam	Sumitomo - Vietnam	Sumitomo - VHI Tanzania	Sumitomo - Vietnam	Sumitomo / VHI	Sumitomo / A to Z	Sumitomo-Vietnam
Order number		CP-UP-9	CP-UP-9	CP-UP-9	PUP-171	PUP-264	PO-PUP-38	PO-PUP-38	PUP-276
Requisition Order		752	752	752	1035	RO-1408	108	108	1473
Contact Information		ATSUKO HIROOKA, Vector Control Dept. tel: +81 5543 5622 hirooka@sc.sumitom o-chem.co.jp			ATSUKO HIROOKA, Vector Control Dept. tel: +81 5543 5622 hirooka@sc.sumitom o-chem.co.jp				
						Atsuko Hirooka			

Shipping Information	Benin	Benin	Benin	Kenya	Madagascar	Uganda	Uganda	Uganda
Date Desired In-Country	Dec '08	early April	Sep '09		n/a	Jan '08		Dec '09
Sampling date	11/17/08	2/3/09	8/3/09	4/9/09	9/25/09	2/28/08		10/19/09
Desired ship date	12/3/08	1/25/09		ships in 4 parts	10/9/09	2/28/08		
Actual ship date	12/3/08	2/10/09	8/18/09	4/18,4/28, 5/8	10/9/09	3/14/08		
Pre-shipment sampling to ship date	16	7		9		15		
Arrival date	1/7/09	3/6/09	9/26/09	4/22, 4/30, 5/8, 5/20	10/23/09	5/7/08		
Arrival date -ship date	35	24	39			54		

Shipment Inspections	Benin	Benin	Benin	Kenya	Madagascar	Uganda	Uganda	Uganda
Part 1 - document verification	Complies	complies	complies	Complies	Complies	Complies	Complies	Complies
Part 2 - Visual Examination	Number of defects	Number of defects	Number of defects	Number of defects	Number of defects	Number of defects	Number of defects	Number of defects
Holes in net	0	0	0	0	0	0	0	0
Stain (dirty net)	0	0	0	0	0	0	0	0
Incomplete hanging loop sewing	0	0	0	0	0	0	0	0
Loose Thread / Hole Broken	1	3	12	6	5	4	5	5
Plastic Bag damaged	0	0	0	0	0	0	0	0
Color-black dots on bottom	0	0	0	0	0	0	0	0
Net mis-shaped	4	4	0	0	1 (Length)	0	0	1 (width)
split seam	1	3	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 21/ Rej 22	Acc 14/Rej 15	Acc 14/Rej 15	Acc 14/Rej 15	Acc 14/Rej 15
Total Defects	6	10	12	6	6	4	6	6
Number tested	315	315	315	500	315	315	315	315
% defective	2%	3%	4%	1%	2%	1%	2%	2%

PHYSICAL TESTS	SPECIFICATION	Benin	Benin	Benin	Kenya	Madagascar	Uganda	Uganda	Uganda
Date of report		11/27/08	2/17/09	8/12/09	4/22/09	10/5/09	3/10/08	3/10/08	10/27/09
Fibre Analysis	ISO 1833:1977/Routine	polyethylene	polyethylene	polyethylene	polyethylene	polyethylene	polyethylene	polyethylene	polyethylene
Fabrication	ISO 8388:1998/Routine/Warp knitted	Warp knitted	Warp knitted	Warp knitted	Warp knitted	Warp knitted	Warp knitted	Warp knitted	Warp knitted
Mesh Size	ISO 7211/2:1984/Routine/5.28 holes per cm	12	12	11	12	12	10	10	11
Dimensional stability to washing	ISO 3759:1994/ISO 5077/ENISO 6330:2001	-0.8	-0.8	-2.8	-1.3	-5	-2.5	-4.2	-1.5
Netting burst strength	ISO 13938-2:1999 >250 min kPa	-1.5	-1.3	-4.5	-3.0	-2.3	1.5	1.7	-0.5
		430	375	411	423	431	432	430	411
		>576	>500	417	452	426	366	>560	>565
		429	>500	428	450	424	388	419	405
Denier	BS 5441:1998 cl 15 (for information only)	n/a	150	n/a	150	not tested	150	150	not tested
Mass per unit area	ISO 3801:1977 for information only	n/a	44	43	47	47	49	48	45

CHEMICAL TESTS	SPECIFICATION	Benin	Benin	Benin	Kenya	Madagascar	Uganda	Uganda	Uganda
Date of Report		12/12/08	02/25/09	08/20/09	04/28/09	10/09/09	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	1.9	2.1	2.1	1.9	2.0	2.0	2.0
Total permethrin content after two washings	Mean - %w/w (retention) >80% of initial concentration	2.0	1.9	n/a	n/a	n/a	2.0	2.0	n/a
Total permethrin content before wash + 20%	+20% concentration	2.4	2.3	-	-	-	2.4	2.4	-
Total permethrin content before wash - 20%	-20% concentration	1.6	1.5	-	-	-	1.6	1.6	-

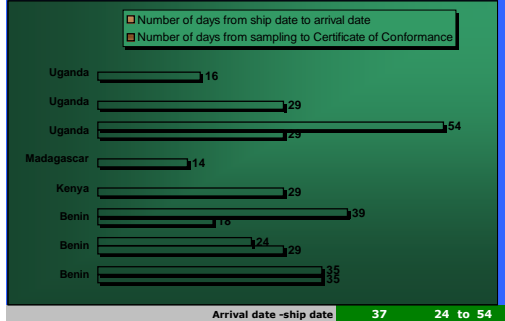
Lot Information	Benin	Benin	Benin	Kenya	Madagascar	Uganda	Uganda	Uganda
Lot number(s)	8221BC2	8Y14BA-1	8223BF1	8X07BA	8708BB	7917WE2-5	7802AD5	9728BB
Bold numbers tested by PSB	8303BF2	8Y14BA-3	9405BA	8X15BA	8616WB	7917WE2-6	7731AD5	9729BB
	8616BB	8Y15BA-1	9326BB	8Y07AD-6	8824WB	7927WE2-1	7Y09AD0	9820BA
	8710BB	8Y15BA-3	9425BB	8Y13BA	9305WC1	7927WE2-2	7X30AD0	9728BA
	8909BB	8Y17BB-1	9519BB	8Y14BB	9414WA	7927WE2-3	7X27AD0	
	8910BB	8Y17BB-2	9610BB	8Y15BB	9417WA	7X19AD0	7805AD0	
	8919BB	8Y17BA-1	9611BB	8Y25BA	9615BA	7X29WE2-2	7Y02AD0	
		8Y18BB-1	9611BB	8Y26BA	9721BA	7X29WE2-3	7X25AD0	
		8Y14BA-2		8Y27AD-0		7X29WE2-4	7815AD0	
		8Y15BA-2		8Y27BA		7X29WE2-5		
		8Y17BA-2		8Y28BF1-4		7X29WE2-6		
		8Y17BB-3		8Z09BA		7Y17WE2-2		
		8Y18BB-2		8Z11BA		7Y17WE2-4		
		8Y18BB-3		8Z12BA		7Z01AD4		
				8Z13BA				
				8Z14BB				
				8Z15BB				
				8Z17BA				
				9107BB				
				9113BB				
				9128BB				
Lot numbers verified with Deliver website	yes	yes				Lot listed as LI#1		
Hardcopy CA received	yes	4/28/2009		no		yes	yes	no
Qty	280,000	280,000	275,000	550,000	500,000	170,000	180,000	300,000
MFD	Aug-Nov '08	Jan '09	Jun '09	Feb-Apr '09	Aug '09	Nov '07-Feb '08	Nov '07-Jan '08	Sep '09
Status	Completed	Completed	Completed	Completed	Completed	Completed	Completed	Completed

1st shipped 4/18
2nd shipped 4/28

LNs (Sumitomo)		TOTAL
Number of lots		75
Quantity		2,235,000
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%
	Median	Range
Time in days and range required for pre-shipment physical inspection test reports	11	9 to 14
Time in days and range required for pre-shipment chemical inspection test reports	22	14 to 28
Time in days and range required from sampling to Certificate of Conformance (completion)	29	14 to 35
Time in days Certificate of Conformance completed after shipping date	19	3 to 22

100% of testing completed before shipment arrives in - country

Acceptable performance level:



Arrival date -ship date 37 24 to 54

LNs (BASF)

Destination	DR Congo	Ghana	Ghana	Ghana	Liberia	Liberia
Number of Lots	5	8	8	8	8	8
Quantity	82,500	52,500	175,000	122,500	363,600	66,400
Lot acceptance rate		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 (100% complete)	4/13/09	2/23/09	2/23/09	2/23/09	3/30/09	3/20/09
Time in days required for pre-shipment physical inspection test reports	11	14	15	16	10	14
Time in days required for pre-shipment chemical inspection test reports	24	32	30	34	24	31
Time in days required from sampling to Certificate of Conformance (completion)	28	35	33	37	27	32
Time in days Certificate of Conformance completed after shipping date	6	6	6	11	12	0

LNs	Destination	DR Congo	Ghana	Ghana	Ghana	Liberia	Liberia
LN Description		polyester, alpha-cypermethrin, 75 dn, 160x180x150, white, rectangular	polyester; alpha-cypermethrin, 75 dn; rectangular, 190x180x150, blue	polyester, alpha-cypermethrin, 75 dn, conical, 1250x250x65, white/green/blue	polyester, alpha-cypermethrin, 75 dn, rectangular, 190x180x150, green/white	polyester, alpha-cypermethrin, 100 dn, white, rectangular, 190x180x150, 160x180x150 (2 different sizes)	polyester, alpha-cypermethrin, 100 dn, 1250x250x65, white, conical
Supplier		BASF-Thailand	BASF - China	BASF-China	BASF-Thailand	BASF-Thailand	BASF-China
Order number		PUP-189	PO-PUP-165	PO-PUP-165	PO-PUP-166	PO-PUP-175	PO-PUP-176
Requisition Order		1063	1011	1011	1011	1040	1040
Contact Information		irene.barbitta@basf.com	irene.barbitta@basf.com	irene.barbitta@basf.com	irene.barbitta@basf.com	irene.barbitta@basf.com	irene.barbitta@basf.com

Shipping Information	DR Congo	Ghana	Ghana	Ghana	Liberia	Liberia
Date Desired In-Country	May '09	March '09	March '09	March '09	March '09	March '09
Sampling date	3/16/09	1/19/09	1/21/09	1/17/09	3/3/09	2/16/09
Scheduled ship date	3/18/09	1/19/09	1/19/09	1/19/09	3/10/09	3/10/09
Actual ship date	4/7/09	3/1/09	3/1/09	2/12/09	3/18/09	3/20/09
Pre-shipment sampling to ship date	22	41	39	26	15	32
Arrival date	6/8/09	4/9/09	4/9/09	3/24/09	4/30/09	5/1/09
Arrival date -ship date	62	39	39	40	43	42

Shipment Inspections	DR Congo	Ghana	Ghana	Ghana	Liberia	Liberia
Part 1 - document verification	complies	complies	complies	complies	complies	complies
Part 2- Visual Examination	Number of defects	Number of defects	Number of defects	Number of defects	Number of defects	Number of defects
Holes in net	1	2	0	3	1	0
Stain (dirty net)	0	0	0	0	5	1
Incomplete hanging loop sewing	0	0	0	0	0	0
Loose Thread / Hole Broken	0	2	0	2	3	0
Plastic Bag damaged	0	0	0	0	0	0
Color-black dots on bottom	0	0	0	0	0	0
Net mis-shaped split seam	0	1	0	0	0	0
General Inspection Level I-AQL 2.5 (Based on sample size)	Acc 10/Rej 11	Acc 10/Rej 11	Acc 14/Rej 15	Acc 10/Rej 11	Acc 14/Rej 15	Acc 10/Rej 11
Total Defects	1	6	0	5	9	1
Number tested	200	200	315	200	315	200
% defective	1%	3%	0%	3%	3%	1%

PHYSICAL TESTS	SPECIFICATION	DR Congo	Ghana	Ghana	Ghana	Liberia	Liberia
Date of report		3/27/2009	2/2/09	2/5/09	2/2/09	3/13/09	3/2/09
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	waro knitted	warp knitted
Mesh Size	ISO 7211/2:1984/Routine/24 holes cm2-Min	28	29	24	25	27	25
Dimensional stability to washing	ISO 3759:1994/ISO 5077/ENISO 6330:2001-warp	2.7	+0.8	-0.3	-0.7	-0.7	+0.8
Netting burst strength	ISO 13938-2:1999 >250 min kPa	-3.0	-2.3	-2.5	-0.7	+1.3	-1.7
Denier	BS 5441:1998 cl 15 (for information only-as declare)	274	292	283	327	437	446
Mass per unit area	ISO 3801:1977 for information only -PSB	285	288	408	257	411	432
		255	264	369	273	449	397
		75	75	75	75	100	100
		32	35	30	30	40	41

CHEMICAL TESTS	SPECIFICATION	DR Congo	Ghana	Ghana	Ghana	Liberia	Liberia
Date of Report		4/9/2009	2/20/09	2/20/09	2/20/09	3/27/09	3/19/09
Total alpha-cypermethrin content before wash	Within 25% of 200 mg/m2 (150-250 mg/m2)	203	209	194	190	181	174
Total alpha-cypermethrin content after two	For information only	119	170	145	120	134	107

Lot Information	DR Congo	Ghana	Ghana	Ghana	Liberia	Liberia
Lot number(s)	0424301 0224302 0134	7333 23302 33256 (LF)	0301003 0301003 436	03352010433705	0204802 0404903	315203 315203 0203
Bold numbers tested by PSB	0124605 0124901 0162	7319 22801 331110 (WQ)	0101301 0101301 186	02044040405004	0205006 0405006	314915 314914 0100
	0125105 0125004 0292	7331 23291 33195 (XSD)	0301404 0301404 581	02047010404705	0204805 0404802	317309 317309 030
	0124203 0224303 0170	7319 22799 33118 (AX)	0300905 0300905 118	02047030404303	0204902 0233404	318210 318209 0050
	0125105 0125006 0021	7332 23253 331915 (YY)	0401301 0401301 310	01011020101302	0209802 0409502	315203 315203 0101
		7334 23303 33259 (LX)	0301402 0301401 276	01011020101303	0209902 0309502	314915 314914 0250
		7320 22802 331112 (WS)	0301003 0301003 287	01012010101401	0209902 0209501	317309 317309 0006
		7332 23294 33213 (LY)	0301303 0301303 475	01012010101401	0213305 0214504	318210 318209 0001
BASF Article numbers:		58585818	58585439	58585453	58567411	
			58585385	58537988	58562300	
			58585415			
Hardcopy CA received	no	4/28/2009	4/28/2009	4/28/2009	no	no
Qty	82,500	52,500	175,000	122,500	363,600	66,400
MFD	May-Dec '07	Nov '07	Jan '09	White: Oct '07-Apr '08, Green: Jan '09	Size 1: Feb-Mar '09, Size 2: Apr-Aug '08	Jun/Jul '08
Comments	Completed	Complete	Complete	Complete	Completed	Completed

Sampling/Inspec. 3/16 (11 holes). Reinspected 3/19

BASF Cert:	BASF Cert:	BASF Cert:
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*Letter mistake PMI logo, replaced by Manufacturer

Initial conc: 205 (white), 205 (blue), 218 (green) Initial conc:150-248 (white), 151-228 (green)

Madagascar	Senegal	Senegal	LNs (BASF)		TOTAL
8			Number of lots	48	
500,000	200,000	180,000	Quantity	1,480,000	
100%	100%	100%	Lot acceptance rate	100%	
0	0	0	Number lots rejected	0	
0	0	0	Complaints	0	
0	1	0	Quality investigations	1	
3/10/09	5/7/09	5/18/09	% of LN shipments with pre-shipment reports available within 3 months	Acceptable performance level: >90%	100%
12	10	16	Time in days and range required for pre-shipment physical inspection test reports	Median	Range
35	22	22	Time in days and range required for pre-shipment chemical inspection test reports	14	10 to 16
40	38	35	Time in days and range required from sampling to Certificate of Conformance (completion)	31	22 to 35
12	20	20	Time in days Certificate of Conformance completed after shipping date	35	27 to 40
Madagascar	Senegal	Senegal	100% of testing completed before shipment arrives in - country		

polyester, alpha-cypermethrin, 100 dn, rectangular, 190x180x180, white/light blue
 polyester, alpha-cypermethrin, 75 dn, 190x180x170, white, rectangular
 polyester, alpha-cypermethrin, 75 dn, 190x180x170, white, rectangular

BASF-Thailand
 PO-PUP-153/3
 985
irene.barbitta@basf.com

BASF-Thailand
 PUP-179
 1042
irene.barbitta@basf.com

BASF-Thailand
 PUP-188
 1061
irene.barbitta@basf.com

Madagascar	Senegal	Senegal
February '09	mid May '09	end May '09
1/29/09	3/30/09	4/13/09
2/5/09	3/30/09	4/27/09
2/26/09	4/17/09	4/28/09
28	18	15
3/19/09	5/20/09	5/31/09
21	33	33

Madagascar	Senegal	Senegal
complies	complies	complies
Number of defects	Number of defects	Number of defects
1	0	1
2	3	2
0	0	0
1	0	0
0	0	0
0	0	0
0	2 (wrong size)	0
0	0	0
Acc 14/Rej 15	Acc 14/Rej 15	Acc 14/Rej 15
4	5	3
315	315	315
1%	2%	1%

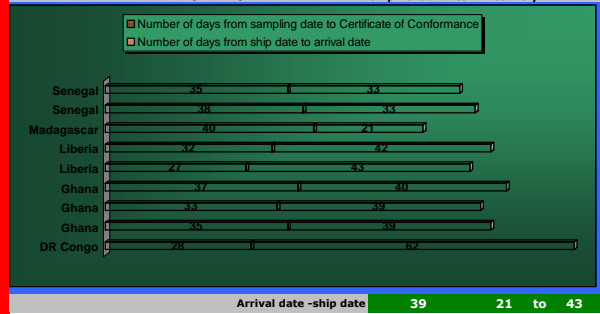
Madagascar	Senegal	Senegal
2/10/09	4/9/09	4/29/09
polyester	polyester	polyester
warp knitted		
26	28	27
-0.7	0.0	1.3
-2.2	-0.2	-3.2
452	355	425
>580	330	462
>580	301	381
100	75	75
40	33	30

Madagascar	Senegal	Senegal
3/5/09	4/21/09	5/5/09
173	203	233
126	n/a	n/a

Madagascar	Senegal	Senegal
01358060436303-0308	0107605 0407601 0724	0409004 0209001 0282
02356020235104-0563	0107904 0408004 0800	0209205 0109403 0120
02356020235104-0622	0307602 0407605 0382	0209401 0209501 0375
02356020235101-0609	0408305 0108404 0089	0209101 0409301 0317
02356020235104-0601	0408303 0108301 0535	0308802 0308905 0083
04011030401001-0333	0408104 0053	
04011030101005-0235	0408401 1142	
04011040401006-0226	0407105 0922	
58583596		
58583565		
4/28/2009	no	no
500,000	200,000	180,000
Jan '09	Mar '09	Mar/Apr '09
Re-count completed by JSI	All tests completed. Dimensional stability retested 5/7/09	Completed

BASF Cert: Labels not in French Labels not in French

Initial conc: 150-249 (blue),
151-250 (white)



LN (Bestnet)

Destination	Mozambique	Mozambique	Mozambique	Rwanda
Number of Lots	1	1	1	1
Quantity	112,400	293,800	93,800	550,000
Lot acceptance rate	100%	100%	100%	100%
Number lots rejected	0	0	0	0
Complaints	0	0	0	0
Quality investigations	0	0	0	0
COC Reviewed (100% complete)	7/17/09	8/18/09	7/17/09	12/22/08
Time in days required for pre-shipment physical inspection test reports	11	11	10	20
Time in days required for pre-shipment chemical inspection test reports	11	13	10	36
Time in days required from sampling to Certificate of Conformance (completion)	11	25	10	73
Time in days Certificate of Conformance completed after shipping date	6	9	6	45

Destination	Mozambique / Nampula	Mozambique / Beira	Mozambique / Maputo	Rwanda
LN Description	polyethylene, detamethrin, 115 denier, 160x180x210 light blue, rectangular	polyethylene, detamethrin, 115 denier, 160x180x210 light blue, rectangular	polyethylene, detamethrin, 115 denier, 160x180x210 light blue, rectangular	polyethylene, detamethrin, 100den, 190x180x150, blue, rectangular
Supplier	Bestnet Europe / KRT	Bestnet Europe / KRT	Bestnet Europe / KRT	Bestnet Europe / KRT
Order number	PUP-205	PUP-206	PUP-207	PO-PUP-65
Requisition Order	1196	1197	1198	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, +44 2088 168 315 ts@intection.com

Shipping Information	Mozambique	Mozambique	Mozambique	Rwanda
Date Desired In-Country	Aug '09	Sep '09	Aug '09	Nov '08
Sampling date	7/6/09	7/24/09	7/7/09	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	11/7/08
Pre-shipment sampling to ship date				28
Arrival date	9/25/2009	9/12/2009	9/8/2009	1/16/2009
Arrival date-ship date	64	34	47	70

Shipment Inspections	Mozambique	Mozambique	Mozambique	Rwanda
Part 1 - document verification	Complies	Complies	Complies	Complies
Part 2 - Visual Examination	Number of defects	Number of defects	Number of defects	Number of defects
Holes in net	0	0	0	10
Stain (dirty net)	0	0	0	0
Incomplete hanging loop sewing	0	0	0	0
Loose Thread / Hole Broken	0	3 yarn joint	0	0
Plastic Bag damaged	0	0	0	0
Color-black dots on bottom	0	0	0	0
Net mis-shaped	0	6 under or oversized	0	0
split seam	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 21 / Rej 22
Total Defects	0	9	0	10
Number tested	200	315	200	500
% defective	0%	3%	0%	2%

PHYSICAL TESTS	SPECIFICATION	Mozambique	Mozambique	Mozambique	Rwanda
Date of report		7/17/09	8/4/09	7/17/09	10/30/08
Fibre Analysis	ISO 1833:1977/Routine	not reported	not reported	not reported	polyethylene
Fabrication	ISO 8388:1998/Routine/Warp knitted	not reported	not reported	not reported	
Mesh Size	ISO 7211/2:1984/Routine/21 or 36 holes per cm ²	25	30	24	28
Dimensional stability to washing	ISO 3759:1994/ISO 5077/ENISO 6330:2001-warp	0.8	-1.0	-0.7	-0.7
Netting burst strength	ISO 13938-2:1999 >250 min kPa	364	458	447	340
Inner seam		>580	>590	>580	>460
Outer seam		>580	>590	>580	>460
Denier	BS 5441:1998 cl 15 (for Information only)	not reported	not reported	not reported	100
Mass per unit area	ISO 3801:1977 for information only	not reported	not reported	not reported	41

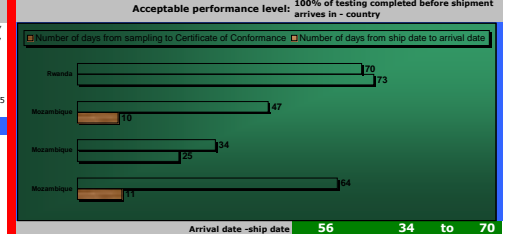
CHEMICAL TESTS	SPECIFICATION	Mozambique	Mozambique	Mozambique	Rwanda
Date of Report		07/17/09	08/06/09	07/17/09	11/15/08
Total deltamethrin content before wash	Within 25% of 1.8 g/kg (1.35-2.25)	1.6	1.6	1.6	1.8

Lot Information	Mozambique	Mozambique	Mozambique	Rwanda
Lot number(s)	1 81512 117	1 92703 118	1 81512 117	1 82102 020
Bold numbers tested by lab				

Lot numbers verified with Deliver website				yes
Hardcopy CA received				yes
Qty	112,400	293,800	93,800	550,000
MFD	May '09	Jun '09	May '09	Mar-May '08
Status	Completed	Completed	Completed	Completed
	Chemical testing by PQC	Chemical testing by PQC	Chemical testing by PQC	Deltamethrin content from CoA

LN (Bestnet)

	Number of lots	Quantity	Lot acceptance rate	Number lots rejected	Complaints	Quality investigations
	4	1,050,000	100%	0	0	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	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)	18	10	to	73		
Time in days Certificate of Conformance completed after shipping date	2	-6	to	45		



Note: Rwanda de ayed n test ng due to Bestnet s De tamethr n w th Po yeth ene test procedure not ava ble to test ng ab. Manufacturers method used.

RDTs- Quality Report Card

Destination	Angola	Angola	Angola	Ethiopia	Ethiopia	Ghana
Number of lots	4	8	12	2	1	1
Quantity	375,000	375,000	600,000	410,000	410,000	74,000
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	7/28/08	9/4/08	6/1/09	9/1/09	9/22/09	9/1/09
Time in days from sampling to COC	13	22	27	12	13	12
Quarterly test reports available the following quarter	100%	100%	100%	n/a	n/a	n/a
Destination	Angola	Angola	Angola	Ethiopia	Ethiopia	Ghana
Product	Paracheck Pf	Paracheck Pf	Paracheck Pf	CareStart Combo	CareStart Combo	CareStart HRP2
Supplier	Orchid	Orchid	Orchid	AccessBio	AccessBio	AccessBio
Purchase Order number		PO-PUP-84	PUP-193	PUC-244	PUC-245	PUP-255
Requisition number	91	568	1090	1380	1392	1379
Contact information			orchid@tulipgroup.com	Jaeen Jung: jajung@accessbio.net	Jaeen Jung: jajung@accessbio.net	Jaeen Jung: jajung@accessbio.net

Shipping Information

Date desired in-country	Mid Jan 08	Jun 08	March '09	Sep '09	Nov '09	Sep '09
Sampling date / Samples sent	7/15/08	8/13/08	5/5/09	8/20/09	9/9/09	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	9/5/09	10/2/09	w/c 9/14
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	10/12/09	9/18/09
Arrival date - Ship date	15	7	6,7	6	10	

Shipment Inspections

Date of post-shipment inspection (after July 09: Pre-shipment)	n/a	n/a	n/a	n/a	n/a	n/a
Sampling contact	UPS	UPS	Chris Warren - sampling by Angomedica	Jaeen Jung: jajung@accessbio.net	Jaeen Jung: jajung@accessbio.net	Jaeen 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	n/a	n/a	n/a
Date of WPRO report	7/23/08	8/28/08	5/28/09	8/31/09	9/15/09	8/31/09

WHO-WPRO POST SHIPMENT TESTING

WPRO lab reference number	Angola	Angola	Angola	Ethiopia	Ethiopia	Ghana
Initial	pass, good blood clearing	pass, poor blood clearing	pass	pass	pass	pass
test date	7/23/08	8/28/08	5/28/09	8/28/09	9/14/09	8/28/09
3 month	pass	pass	pass			
test date	10/23/08	12/5/08	8/29/09			
6 month	pass	pass		Nov	Dec	Nov
test date	1/28/09	2/27/09	Nov			
9 month	pass	pass				
test date	4/30/09	5/27/09				
12 month	pass	pass				
test date	7/27/09	8/27/09				
15 month	pass					
test date	11/8/09	Nov				
18 month						
test date	Jan/Feb					
21 month						
test date						

Lot Information

Lot number(s)	021328	31308	31595	G19IR	H19IR	H19IO
	021329	31310	31596	G29IR		
	021330	31311	31597			
	021331	31314	31598			
		31315	31599			
		31316	31600			
		31322	31602			
		31323	31603			
			31605			
			31606			
			31608			
			31609			
Lot numbers verified with Deliver website	yes	yes	no lot numbers	H9IR	G19IR	
Quantity	375,000	375,000	600,000	410,000	410,000	74,000
Mfd Date	n/a	n/a	n/a			
Exp Date	Feb 2010	May 2010	December 2010	June 2011	July 2011	July 2011
Status	Completed	Completed	Completed	Completed	Completed	Completed
	Field sampling: no more RDTs in stock, we cannot retain samples from these shipments (C. Warren, email, 5/4/09)		Field sampling: no more RDTs in stock, we cannot retain samples from these shipments (C. Warren, email, 5/4/09)			

RDTs- Quality Report Card

Destination	Liberia	Liberia	Mali	Mali	Tanzania-Mainland	Tanzania-Mainland
Number of lots	9	9	1	1	4	5
Quantity	425,000	425,000	10,000	20,000	225,000	250,000
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	5/18/09	7/29/09	5/21/09	10/19/09	1/5/09	2/4/09
Time in days from sampling to COC	33	13	48	7	46	50
Quarterly test reports available the following quarter	100%	100%	100%	n/a	100%	100%
Destination	Liberia	Liberia	Mali	Mali	Tanzania-Mainland	Tanzania-Mainland
Product	Paracheck	Paracheck	Paracheck Pf	Paracheck Pf	Malaria Pf	Paracheck Pf
Supplier	Orchid	Orchid	Orchid	Orchid	ICT	Orchid
Purchase Order number	PUC-159	PUC-160	PUP-178	PUP-278	PO-PUP-131	
Requisition number	1062	1062	1041	1479	882	882
Contact information	Avinash Tulaskar: orchid@tulipgroup.com	Avinash Tulaskar: orchid@tulipgroup.com	N. Sriram tulip@sancharnet.in	N. Sriram tulip@sancharnet.in	Russell Glanz, russellag@icon.co.za	

Shipping Information

Date desired in-country	Mar '09	Aug '09		Oct '09	n/a	n/a
Sampling date / Samples sent	4/15/09	7/16/09	4/3/09	10/12/09	11/20/08	12/16/08
Desired ship date	3/23/09		3/15/09		10/23/08	11/4/08
Actual ship date	3/23/09	8/12/09	3/7/09		10/23/08	11/4/08
Actual ship date - Desired ship date	0		-8		0	0
Arrival date	3/25/09	8/17/09	3/10/09	10/25/09	11/3/08	11/24/08
Arrival date - Ship date	2	5	3		11	20

Shipment Inspections

Date of post-shipment inspection (after July '09: Pre-shipment)	4/15/09	7/17/09	4/3/09	10/12/09	11/26/08	12/16/08
Sampling contact	Cornelius Pearce sannelius@yahoo.ca	Crown Agents	Enias Baganizi abaganize@usaid.gov	Crown Agents	susan_duberstein@jsi.com trosche@jsi.co.tz	susan_duberstein@jsi.com trosche@jsi.co.tz
Post-shipment inspection summary After July '09: Pre-shipment)	complies	complies	complies	complies	complies	complies
Date of WPRO report	5/12/09	7/28/09	5/7/09		12/17/08	1/6/09

WHO-WPRO POST SHIPMENT TESTING

WPRO lab reference number	RITM	IPC	IPC	IPC	RITM	IPC
WPRO lab reference number	IPC 34 0m		IPC 57 0m			
Initial test date	pass, poor blood clearing 5/8/09	pass 7/27/09	pass 5/7/09	pass 10/19/09	pass 12/17/08	pass 1/6/09
3 month test date	pass, poor blood clearing 8/10/09	pass 10/27/09	pass 8/7/09	Jan	pass 3/17/09	pass 4/6/09
6 month test date	pass, some malfunction* 11/8/09	Jan	pass 11/10/09		pass 6/25/09	pass 7/6/09
9 month test date					pass 9/17/09	
12 month test date	Feb		Feb			Oct
15 month test date					Dec	
18 month test date						
21 month test date						

Lot Information

Lot number(s)	31584	31625	31545	31726	32068	31496
	31585	31626			32069	31497
	31586	31628			32095	31498
	31587	31629			32087	31499
	31588	31630				31500
	31589	31632				
	31590	31633				
	31591	31634				
	31593	31635				
Lot numbers verified with Deliver website	yes	yes	yes		yes	yes
Quantity	425,000	425,000	10,000	20,000	225,000	250,000
Mfd Date	Jan '09		Nov '08		Aug/Sep 08	n/a
Exp Date	Dec '10	Jan '11	Oct '10	Aug '11	Aug/Sep 2010	Sep '10
Status	Completed	Completed	Completed	Completed	Completed	Completed

*6 month: 1/8 samples lots 31584, 31585 malfunctioned: blood and buffer did not run completely through the strip, some buffer left in the well

Field sampling: We are working with Peter McElroy so that he can put us in touch with the correct person over at NMCP to find the samples on the mainland.

RDTs- Quality Report Card

Destination	Tanzania-Mainland	Tanzania-Mainland	Tanzania-UNHCR	Tanzania-Zanzibar	Tanzania-Zanzibar	Tanzania-Zanzibar
Number of lots	4	10	8	3	2	2
Quantity	250,000	750,000	350,000	150,000	100,000	100,000
Lot acceptance rate	100%	100%	100%	100%	100%	100%
Number lots rejected	0	0	0	0	0	0
Complaints	0	0	0	0	0	1
Quality investigations	0	0	0	0	0	1
COC reviewed	2/3/09	8/21/09	6/17/08	10/31/07	3/26/09	7/29/09
Time in days from sampling to COC	28	15	35	15	20	13
Quarterly test reports available the following quarter	100%	n/a	100%	100%	100%	100%
Destination	Tanzania-Mainland	Tanzania-Mainland	Tanzania-UNHCR	Tanzania-Zanzibar	Tanzania-Zanzibar	Tanzania-Zanzibar
Product	Parahit	ICT	Paracheck Pf	Paracheck Pf	Paracheck Pf	Paracheck Pf
Supplier	Span	Vision Biotech	Orchid	Orchid	Orchid	Orchid
Purchase Order number		PUP-250	PUP-51/1	PO-P-23	PUC-144	PUC-145
Requisition number	882	1376	107	48	1037	1037
Contact information		Russell Glanz, russellag@icon.co.za		Mr. Avinash Tulaskar, orchid@tulipgroup.com	Mr. Avinash Tulaskar, orchid@tulipgroup.com	Mr. Avinash Tulaskar, orchid@tulipgroup.com

Shipping Information

Date desired in-country	n/a		Feb 08	ASAP	Mar '09	Aug '09
Sampling date / Samples sent	1/6/09	8/6/09	5/13/08	10/16/07	3/6/09	7/16/09
Desired ship date	11/17/08		4/27/08	9/21/07	2/26/09	
Actual ship date	11/17/08	9/2/09	4/28/08	9/21/07	2/26/09	8/12/09
Actual ship date - Desired ship date	0		1	0	0	
Arrival date	12/15/08	9/10/09	5/1/08	10/3/07	3/3/09	8/18/09
Arrival date - Ship date	28	8	3	12	5	6

Shipment Inspections

Date of post-shipment inspection (after July 09: Pre-shipment)	1/6/08 Rosche	8/7/09	5/13/08 Rosche	10/16/07 Rosche	3/9/09 Rosche	7/17/09
Sampling contact	susan_duberstein@jsi.com trosche@jsi.co.tz	Vision Biotech, Andreas.bohms@invmed.com	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
Post-shipment inspection summary After July '09: Pre-shipment)	complies	EHRNI: samples appear to be in good condition on receipt	complies	complies	complies	complies
Date of WPRO report	1/21/09		6/2/08	10/24/07	3/19/09	7/28/09

WHO-WPRO POST SHIPMENT TESTING

WPRO lab reference number	RITM	EHNRI	IPC	IPC	RITM	IPC
RI 0002 41382		EHNRI 11 32432 0m				
Initial test date	pass 1/15/09	pass 8/19/09	pass 5/31/08	pass 10/23/07	pass 3/18/09	pass 7/27/09
3 month test date	pass 4/28/09	Nov	pass 9/1/08	pass 1/28/08	pass 6/25/09	pass 10/27/09
6 month test date	pass 7/15/09		pass 11/29/08	pass 4/25/08	pass 9/28/09	pass Jan
9 month test date	pass 10/15/09		pass 2/28/09	pass 7/29/08	pass late Dec	
12 month test date	Jan		pass 5/28/09	pass 10/24/08		
15 month test date			pass 8/28/09	pass 1/26/09		
18 month test date			Nov	pass 4/26/09		
21 month test date				pass 7/25/09		

Lot Information

Lot number(s)	4000001382	32432	31174	31987	31549	021344
	4000001384	32441	31175	31989	31550	021346
	4000001386	32442	31177	31995		
	4000001387	32446	31178			
		32452	31179			
		32464	31180			
		32477	31181			
		32483	31182			
		32490				
		32495				
Lot numbers verified with Deliver website	yes		yes	yes	yes	
Quantity	250,000	750,000	350,000	150,000	100,000	100,000
Mfd Date	n/a		n/a	Sep 2007	Dec 2008	
Exp Date	10/9/2010	Jun '11	Mar 2010	Aug 2009	November 2010	May '11
Status	Completed	Completed	Completed	Completed	Completed	Part 2

storage and lot information on boxes indicated unclear

Field sampling: samples of all 8 lots 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

RDTs- Quality Report Card

Destination	Field Sampling				
	Tanzania	Zambia	Zambia	Zambia	Zambia
Number of lots	11	51	10	9	10
Quantity	n/a	979,000	660,000	625,000	625,000
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	n/a	3/6/08	4/30/09	7/27/09	9/9/09
Time in days from sampling to COC	n/a	56	51	21	8
Quarterly test reports available the following quarter	n/a	100%	100%	100%	n/a
Destination	Zambia	Zambia	Zambia	Zambia	Zambi
Product	Paracheck Pf	Malaria Pf	Malaria Pf	Malaria Pf	Malaria Pf
Supplier	Orchid	ICT	ICT	ICT	ICT
Purchase Order number		PO-PUP-37	PO-PUP-157	PO-PUP-217	PO-PUP-218
Requisition number		77	990	1313	1314
Contact information			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
Desired ship date		12/28/07	2/6/09		
Actual ship date	n/a	12/31/07	2/20/09	7/24/09	9/11/09
Actual ship date - Desired ship date		3	14		
Arrival date	n/a	1/7/08	2/25/09	7/29/09	9/17/09
Arrival date - Ship date		7	5	5	6
Shipment Inspections					
Date of post-shipment inspection (after July 09: Pre-shipment)	n/a	1/10/08	3/10/09	7/6/09	
Sampling contact	Susan Duberstein	Farouk Umaru fumaru@jsi.co.zm	Rabson Zyambo RZyambo@jsi.co.zm	Crown Agents	chantel.lamon@telkomsa.net
Post-shipment inspection summary After July '09: Pre-shipment)	n/a	complies	complies	complies	n/a
Date of WPRO report	7/17/09	3/4/08	4/20/09	7/15/09	9/8/09
WHO-WPRO POST SHIPMENT TESTING					
WPRO lab reference number	EHNRI	RITM	RITM	EHNRI	IPC 46 32495 0m
Initial test date	pass 7/7/09	pass 3/3/08	pass 4/16/09	pass 7/14/09	pass 9/8/09
3 month test date	n/a	pass 6/26/08	pass 7/16/09	pass 10/18/09	Dec
6 month test date		pass 9/12/08	pass* 10/16/09	Jan	
9 month test date		pass 12/18/08	Jan		
12 month test date		pass 3/4/09			
15 month test date		pass 6/28/09			
18 month test date		lots expired			
21 month test date					
Lot Information					
Lot number(s)	31178	20 groups-51 lots	10 lots	9 lots	32495
	31987	1 - 31247	32257	32345	32507
	31179	2 - 31324, 31325	32170	32362	32508
	31549	3 - 31331	32147	32373	32519
	31182	4 - 31337, 31340, 31341, 31344, 31345	32248	32379	32520
	31177	5 - 31381, 31383	32204	32388	32529
	31175	6 - 31398	32219	32390	32530
	31174	7 - 31400, 31408, 31409, 31412, 31413	32238	32400	32535
	31550	8 - 31414, 31416, 31417	32241	32402	32536
	31181	9 - 31422	32234	32409	32543
	31180	10 - 31423, 31432	32274		
		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	n/a	979,000	660,000	625,000	625,000
Mfd Date		n/a	Jan/Feb '09		
Exp Date		May-Oct 2009	Jan/Feb '11	May/June '11	Jul/Aug '11
Status	Completed	Completed	Completed	Completed	Completed

6 month: Lot 32241,
1/8 samples gave invalid
result. New sample
passed retest

SP									
Destination Product	Benin SP	Benin SP	Kenya SP	Liberia SP	Mali SP				
MANUF FDA/SRA WHO Pre GF Wholesaler QA	Unicef Non-Conc.	Unicef Concurrent	MissionPharma Non-Conc.	IDA Concurrent	Unicef Concurrent	SP	Total		
Number of Lots	4	3	2	1	7	Number of Lots	17		
Quantity	1,200,000	1,100,000	840,000	236,000	3,000,000	Quantity	6,376,000		
Lot acceptance rate	100%	100%	100%	100%	100%	Lot acceptance rate	100%		
Number lots rejected	0	0	0	0	0	Number lots rejected	0		
Complaints	0	0	0	0	0	Complaints	0		
Quality investigations	0	0	0	0	1	Quality investigations	1		
COC Reviewed (100% complete)	3/10/08	6/9/08	6/18/09	3/16/09	3/30/09	% of SP shipments with pre-shipment reports available	Acceptable performance level: >90%	100%	
Time in days from Sampling to Shipment	40*	8	25	n/a	2	Time in days from Sampling to Shipment	Median	8	2 to 25
Time in days required for pre-shipment chemical inspection test reports	37*	35	17	n/a	23	Time in days required for pre-shipment chemical inspection test reports	23	17	to 35
Time in days required from sampling to Certificate of Conformance (completion)	54*	39	17	n/a	34	Time in days required from sampling to Certificate of Conformance (completion)	34	17	to 39
Time in days required for Certificate of Conformance (completion) after shipping (concurrent testing only)	n/a	31	n/a	n/a	32				
Pharmaceutical Drugs									
Product	Benin SP	Benin SP	Kenya SP	Liberia SP	Mali SP	Acceptable performance level: 0-30?			
Supplier	Unicef	Unicef	MissionPharma	IDA	Unicef	* 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.			
Manufacturer	IPCA	IPCA	IPCA	Micro Labs	Medreich				
Order number		PO-PUP-69/1	PUP-197	PUP-167/1	PUP-137				
Requisition number	111	467 (no name) (45) 35 27 35 27	1106	1019 mark usa moud@idafoundation .org	917 (no name) (45) 35 27 35 27				
Contact information		psid@unicef.org	Jens Rasmussen		27 psid@unicef.org				
Shipping Information									
Date desired in-country	Nov 07	n/a	end May '09	Feb '09	Beginning Jan '09				
Sampling Date	1/16/08	5/1/08	6/1/09	IDA/Vimta	2/24/09				
Desired ship date	2/25/08	5/9/08	5/15/09						
Actual ship date	2/25/08	5/9/08	6/26/09	3/26/09	2/26/09				
Sampling Date to Ship Date	40	8			2				
Arrival date	3/3/08	5/16/08	6/28/09	3/27/09	3/1/09				
Arrival date - ship date	7	7	2	1	3	Arrival date -ship date	3	1	to 7
Lot Information									
Date chemical test report	2/22/2008	6/5/08	6/18/09	2/9/09	3/19/09				
Lab	USP	NW	NW	Vimta	NW				
Lot number(s)	GG7008F	GG7014F	PP9001R	SPIH0081	380273				
	GG7009F	GG8004F	PP9002R		380274				
	GG7013F	GG8008F			380299				
	GG7017F				380300				
					380300				
					380301				
					390051				
					390052				
Quantity	1,200,000	1,100,000	840,000	236,000	3,000,000				
Mfd Date	Aug 2007	Aug 2007/Jan 2008	May '09	Sep '07	Sep '08/ Jan '09				
Exp Date	Jul 2009	Jul 2010/Dec 2010	April '12	Aug '11	Sep '11/ Jan '12				
Status	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				

AS/AQ

Destination	Ghana	Liberia	Liberia	Mali	Nigeria	Sudan			
Product	As+Aq	As+Aq	As+Aq	AsAq	As+Aq	As+Aq	AS+AQ	Total	
MANUF	IPCA	Guilin	IPCA	IPCA	Winthrop	Cipta			
FDA/SRA					Sanofi Aventis				
WHO Pre	WHO	WHO	WHO	WHO	WHO	WHO			
GF	GF	GF	GF	GF	GF	GF			
Wholesaler	MissionPharma	Mission Pharma	IDA	IDA	direct	MissionPharma			
QA	concurrent	Non-Conc.	concurrent	concurrent	concurrent	concurrent			
Number of Lots	6	3	4	2	2	18	Number of Lots	35	
Quantity	1,142,760	496,000	1,303,175	34,360	400,000	1,627,500	Quantity	5,003,795	
Lot acceptance rate	100%	100%	100%	100%	100%	100%	Lot acceptance rate	100%	
Number lots rejected	0	0	0	0	0	0	Number lots rejected	0	
Complaints	0	0	0	0	0	0	Complaints	0	
Quality investigations	0	0	0	0	0	0	Quality investigations	0	
COC Reviewed (100% complete)	12/2/08	1/10/08	3/24/09	7/8/09	10/5/09	7/8/09	% of AS+AQ shipments with pre-shipment reports available	Acceptable performance level: >90%	100%
Time in days from Sampling to Shipment	11	60*	12	9		12	Median	12	9 to 12
Time in days required for pre-shipment chemical inspection test reports	22	23*	22	22	18	34	Range	22	18 to 34
Time in days required from sampling to Certificate of Conformance (completion)	22	58*	35	22	18	34	Time in days required from sampling to Certificate of Conformance (completion)	22	18 to 35
Time in days required for Certificate of Conformance (completion) after shipping (concurrent testing only)	11	n/a	23	13		22	Time in days required for Certificate of Conformance (completion) after shipping	18	11 to 23

Pharmaceutical Drugs

Product	Ghana	Liberia	Liberia	Mali	Nigeria	Sudan	Acceptable performance level: 0-307	
Supplier	As+Aq	As+Aq	As+Aq	As+Aq	As+Aq	As+Aq	* The first Liberia order followed the initial QA policy of waiting for all test results to be completed before shipment and is not included in the calculations.	
MissionPharma	MissionPharma	Mission Pharma	IDA	IDA	direct	MissionPharma		
Manufacturer	IPCA	Guilin	IPCA	IPCA	Sanofi	Cipta		
Order number	PO-PUP-134	PO-P-29	PUP-167/1	PUP-211	PUC-234	PUP-198		
Requisition number	832	62	1019	1292	1368	1105		
Contact information	Jens Rasmussen, jr@missionpharma.com		Mouad Haidoudi, mouad@idafoundati on.org	Mouad Haidoudi, mouad@idafoundati on.org	MS Lauree Leant, Claude.Gearnt@sa nofi-aventis.com	Jens Rasmussen, JR@missionpharma.com		

Shipping Information

	Ghana	Liberia	Liberia	Mali	Nigeria	Sudan	Arrival date -ship date	
Date desired in-country	ASAP	Oct-07	Feb '09	URGENT	Aug '09		5	2 to 14
Sampling Date	11/10/08	11/13/07	2/17/09	6/16/09	9/17/09	6/4/09		
Desired ship date	8/31/08	1/11/08						
Actual ship date	11/21/08	1/12/08	3/1/09	6/25/09	est 10/5	6/16/09		
Sampling Date to Ship Date	11	60	12					
Arrival date	11/26/08	1/26/08	3/6/09	6/27/09	10/5/09	6/25/09		
Arrival date - ship date	5	14	5	2		9		

Lot Information

	Ghana	Liberia	Liberia	Mali	Nigeria	Sudan		
Date chemical test report	12/2/08	12/6/07	3/11/09	7/8/09	10/5/09	7/8/09		
Lab	NW	USP	Vinta	NW	IDPS	NW		
Lot number(s)	ARS8022F	LQ071006	CWD 9001F	CWD8007F	3020	G94151		
	ARS8023F	LQ071007	CWD 9002F	CWD8008F	3021	G96639		
	ARS8024F	LQ071008	CWD 9003F			G96655		
	ARS8025F		CWD 9004F			K83073		
	ARS8026F					K90733		
	ARS8027F					K90782		
						K90792		
						KW9840		
						KW9864		
						KW9865		
						KW9866		
						KW9892		
						KW9903		
						KW9904		
						KW9911		
						KW9913		
						X90085		
						X90118		
Quantity	1,142,760	496,000	1,303,175	34,360	400,000	1,627,500		
Mfd Date	Sep/Oct 2008	Sep 2007	n/a	Dec '08	May/Jun '09	Nov, Dec '08/ Jan, Apr, May '09		
Exp Date	Aug/Sep 2011	Sep 2009	Dec '11	Nov '11	May/Jun '11	Oct, Nov, Dec '10/ Mar, Apr '11		
Status	Completed	Completed	Completed	Completed	Completed	Completed		
Comments/Actions	ID and Assay results received 11/26/08	Microbial test memo 1/4/08	Chemical results rec'd 3/20	Inspection 6/3/09 (Microcommunicatio n). Passed re-	Testing complete			

Invoice sent to Marti 7/17/09

Invoice sent to Marti 7/17/09

Artesunate Suppositories

Destination	Benin	Mali		
Product	As suppositories (50 mg)	As suppositories (50 and 200 mg)	As suppositories	Total
MANUF	Mepha	Mepha		
FDA/SRA				
WHO Pre				
GF	C1	C1		
Wholesaler	MissionPharma	Unicef		
QA	Concurrent	Concurrent		
Number of Lots	1	2	Number of Lots	3
Quantity	67,500	12,168	Quantity	79,668
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 Range #NUM! 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	Mali	Acceptable performance level: 0-307
Product	As suppositories	As suppositories		
Supplier	MissionPharma	Unicef		
Manufacturer	Mepha	Mepha		
Order number	PUP-209	PUP-181		
Requisition number	1234	1044		
Contact information	Jens Rasmussen	(no name) (45) 35 27 35 27 psid@unicef.org		
Shipping Information		Benin	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	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		
Mfd Date				
Exp Date	11/30/2009	11/30/2011		
Status	Completed	Completed		
Comments/Actions				

Quinine Sulphate 200mg

Destination		Liberia			
Product		Quinine sulfate 200 mg			
MANUF		Micro Labs			
FDA/SRA					
WHO Pre					
GF					
Wholesaler		IDA		Quinine 200 mg	Total
QA		Concurrent			
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	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	#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		Acceptable performance level:	
Product		Quinine sulfate 200 mg		0 -307	
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	Arrival date -ship date	2	2	to 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				

Quinine Sulphate 300 mg

Destination		Liberia			
Product		Quinine sulfate 300 mg			
MANUF		Medopharm			
FDA/SRA					
WHO Pre					
GF					
Wholesaler		IDA		Quinine 200 mg	Total
QA		Concurrent			
Number of Lots	1	Number of Lots	1		
Quantity	816,000	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	Range
Time in days required for pre-shipment chemical inspection test reports	11	Time in days required for pre-shipment chemical inspection test reports		23	23 to 23
Time in days required from sampling to Certificate of Conformance (completion)	18	Time in days required from sampling to Certificate of Conformance (completion)		11	11 to 11
Time in days required for Certificate of Conformance (completion) after shipping (concurrent testing only)	5			18	18 to 18
Pharmaceutical Drugs		Liberia		Acceptable performance level: 0 -30?	
Product		Quinine sulfate 300 mg			
Supplier		IDA			
Manufacturer		Medopharm			
Order number		PUP-167/1			
Requisition number		1019			
Contact information		Mark Oud mound@idafoundation.org			
Shipping Information		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		Liberia			
Date chemical test report		3/17/09			
Lab		Virmta			
Lot number(s)		9MB56			
Quantity		816,000			
Mfd Date		Feb '09			
Exp Date		Jan '12			
Status		Completed			
Comments/Actions		Chemical results rec'd 3/20			

Arthemeter injection 80mg

Destination		Mali			
Product		Artesiane® Art, inj, 80 mg/ml			
MANUF		Dafra			
FDA/SRA					
WHO Pre					
GF		C1			
Wholesaler		Unicef		Arthemeter inj, 80 mg/ml	Total
QA		Concurrent			
Number of Lots	1	Number of Lots	1		
Quantity	16,845	Quantity	16,845		
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)	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	Time in days from Sampling to Shipment	Median	Range	
Time in days required for pre-shipment chemical inspection test reports	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	Time in days required from sampling to Certificate of Conformance (completion)	#NUM!	0 to 0	
Pharmaceutical Drugs	Mali	Acceptable performance level:	0 -30?		
Product		Artesiane® Arth, inj, 80 mg/ml			
Supplier		Unicef			
Manufacturer		Dafra			
Order number		PUP-181			
Requisition number		1044			
Contact information		(no name) (45) 35 27 35 27 psid@unicef.org			
Shipping Information		Mali			
Date desired in-country					
Sampling Date					
Desired ship date					
Actual ship date		4/6/09			
Sampling Date to Ship Date					
Arrival date		4/7/09			
Arrival date - ship date		1		Arrival date -ship date	1 1 to 1
Lot Information		Mali			
Date chemical test report		5/12/09			
Lab		TGA			
Lot number(s)		80531			
Quantity	16,845				
Mfd Date	Sep '08				
Exp Date	Sep '12				
Status	Completed				
Comments/Actions					

Quinine 600mg injection

Destination	Liberia	Liberia		
Product	Quinine 600 mg inj	Quinine 600 mg inj		
MANUF	Gland Pharma	Gland Pharma		
FDA/SRA				
WHO Pre				
GF				
Wholesaler			Quinine inj, 600 mg	Total
QA	Concurrent	Non-Concurrent		
Number of Lots	1	1	Number of Lots	1
Quantity	100,400	100,400	Quantity	100,400
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)	5/18/09	7/22/09	% 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 #NUM! 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

Product	Liberia	Liberia	Acceptable performance level: 0-30?	
Quinine 600 mg inj	Quinine 600 mg inj			
Supplier	IDA	IDA		
Manufacturer	Gland Pharma	Gland Pharma		
Order number	PUP-167/1	PUP-167/1		
Requisition number	1019	1019		
Contact information	Mark Oud moud@idafoundation.org	Mark Oud moud@idafoundation.org		

Shipping Information

Date desired in-country	Feb '09		
Sampling Date	?		
Desired ship date	due wk 5/18		
Actual ship date		7/29/09	
Sampling Date to Ship Date		n/a	
Arrival date	5/24/09	8/2/09	
Arrival date - ship date		4	Arrival date -ship date #NUM! 0 to 0

Lot Information

Date chemical test report	5/14/09	7/22/09	
Lab	Vimta	Vimta	
Lot number(s)	DV901X	DV908X	
Quantity	100,400	100,400	
Mfd Date	Jan '09	Jul '09	
Exp Date	Dec '11	Jun '11	
Status	Completed	Completed	
Comments/Actions	ID 4/9/09 Full report rec'd 4/20/09. Lot sent to other customers. Retest rec'd 5/14. First part of the order	2nd part of the order.	

Coartem®								
Destination	Angola	Angola	Angola	Angola	Benin	Kenya	Kenya	
Number of Lots	14	13	17	17	6	6	10	
Quantity	1,483,710	1,152,000	1,883,520	2,004,480	1,073,490	397,440	882,990	
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	0	0	
Novartis COA reviewed	Completed	Completed	11/18/08	5/20/09	Completed	Completed	Completed	
NIR spectra obtained	100%	100%	100%	0%	100%	100%	100%	
Destination	Angola	Angola	Angola	Angola	Benin	Kenya	Kenya	
Product	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®	
Supplier	Novartis	Novartis	Novartis	Novartis	Novartis	Novartis	Novartis	
PO number		PO-PUP-71			PO-PUP-45	PO-629	PO-755	
Requisition Order	61	474	753	991	78	629	755	
Contact Information								
Shipping Information								
	Angola	Angola	Angola	Angola	Benin	Kenya	Kenya	
Date desired in-country	Dec-07	End of April/May	Jan-09	end April '09	Nov-07	Jun '09	Aug '09	
Desired ship date	12/4/07	5/15/08	10/10/08		2/20/08	6/15/08	8/15/08	
Actual ship date	12/6/07	5/30/08	10/30/08	5/11/09	3/3/08	7/4/08	8/22/08	
Actual ship date - Desired ship date	2	15	20		12	19	7	
Arrival date	12/19/07	6/9/08	11/4/08	5/12/09	3/11/08	7/10/08	8/29/08	
Arrival date - Ship date	13	10	5	1	8	6	7	
Lot Information								
	Angola	Angola	Angola	Angola	Benin	Kenya	Kenya	
Lot number(s)	F0690	F0956	F1126	F1390	F0823	F0963	F1020	
	F0692	F0957	F1152	F1397	F0824	F0978	F0986	
	F0726	F0958	F1137	F1367	F0825	F0969	F0987	
	F0729	F0959	F1134	F1369	F0839	F0947	F1010	
	F0731	F0977	F1135	F1373	F0841	F0949	F1012	
	F0732	F0979	F1133	F1374	F0877	F0971	F1013	
	F0733	F0973	F1136	F1336			F1014	
	F0734	F0980	F1138	F1338			F1033	
	F0736	F0948	F1140	F1339			F1034	
	F0744	F0951	F1141	F1407			F1041	
	F0779	F0953	F1143	F1408				
	F0781	F0942	F1144	F1409				
	F0782	F0947	F1120	F1410				
	F0783		F1121	F1412				
			F1169	F1416				
			F1172	F1418				
			F1173	F1419				
Quantity	1,483,710	1,152,000	1,883,520	2,004,480	1,073,490	397,440	882,990	
Mfd date	Jul-Sep 07	Mar-Apr 08	Aug-Sep-08	Jan-Mar '09	Oct 07-Jan 08	Apr-08	Apr-Jun-08	
Exp date	Jun-Aug 09	Feb-Mar 10	Jul-Aug-10	Dec '10-Feb '11	Sep-Dec 09	Mar-10	Mar-May-10	
Status	Completed	Completed	Completed	Completed	Completed	Completed	Completed	
Comments/Actions	No Complaints reported	96 shipping boxes are missing and damaged. Also pallets had been opened and partially off-loaded. Angolan authorities did not allow JSI representative to be present during customs clearance and also had refused direct access for inspecting and counting the goods. A second visit of JSI representative is planned for	On hold until clearance of recently delivered goods is complete. No product should be delivered as long as the recent delivery cannot be fully accounted for.	No Complaints reported	No Complaints reported			emergency shipment

Coartem®

Destination	Kenya	Kenya	Kenya	Malawi	Malawi	Malawi	Malawi
Number of Lots	14	14	17	19	15	7	11
Quantity	1,218,240	1,218,240	1,789,440	2,608,410	2,311,200	668,160	1,276,800
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	0	0

Novartis COA reviewed	2/6/09	3/4/09	10/19/09	Completed	Completed	Completed	9/23/08
NIR spectra obtained	0%	0%	0%	100%	100%	100%	100%

Destination	Kenya	Kenya	Kenya	Malawi	Malawi	Malawi	Malawi
Product	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®
Supplier	Novartis	Novartis	Novartis	Novartis	Novartis	Novartis	Novartis
PO number				POP-P-21		PO-475	
Requisition Order	996	996	1429	36	65	475	798
Contact Information							

Shipping Information

	Kenya	Kenya	Kenya	Malawi	Malawi	Malawi	Malawi
Date desired in-country	Jan '09	Feb '09	September '09	Sept-07	Dec-07	n/a	August-08
Desired ship date	2/13/09	2/25/09		9/20/07	12/3/07	6/5/08	8/31/08
Actual ship date	2/13/09	3/6/09		9/20/07	12/5/07	5/29/08	9/22/08
Actual ship date - Desired ship date	0	9		0	2	-7	22
Arrival date	2/16/09	3/9/09	10/15/09	9/27/07	12/15/07	6/9/08	9/23/08
Arrival date - Ship date	3	3		7	10	11	1

Lot Information

	Kenya	Kenya	Kenya	Malawi	Malawi	Malawi	Malawi
Lot number(s)	F1256	F1264	F1569	F0627	F0692	F0953	F1027
	F1259	F1265	F1570	F0629	F0708	F0980	F1032
	F1288	F1317	F1571	F0636	F0709	F0947	F1066
	F1292	F1327	F1572	F0637	F0732	F0979	F1068A
	F1243	F1329	F1573	F0640	F0735	F0981	F1049
	F1244	F1333	F1574	F0659	F0736	F0982	F1050
	F1246	F1337	F1575	F0662	F0745	F0985	F1052
	F1270	F1295	F1582	F0669	F0748		F1053
	F1272	F1297	F1583	F0670	F0750		F1054
	F1274	F1298	F1584	F0671	F0751		F1091
	F1276	F1300	F1535	F0673	F0753		F1099
	F1254	F1301	F1536	F0674	F0783		
	F1273	F1302	F1547	F0675	F0785		
	F1313	F1304	F1549	F0676	F0786		
			F1600	F0678	F0788		
			F1604	F0679			
			F1605	F0693			
				F0695			
				F0698			
Quantity	1,218,240	1,218,240	1,789,440	2,608,410	2,311,200	668,160	1,276,800
Mfd date	Nov '08-Jan '09	Dec '08-Jan '09	Jun-Aug '09	May-Jul 07	Jul-Sep-07	Apr-08	May-Jul-08
Exp date	Oct-Dec '10	Nov-Dec '10	May-Jul '11	Apr-Jun 09	Jun-Aug-09	Mar-10	Apr-Jun-10
Status	Completed	Completed	Completed	Completed	Completed	Completed	Completed
Comments/Actions		No Complaints reported	No Complaints reported	No Complaints reported	No Complaints reported	DELIVER office verifying carton count	

Coartem®

Destination	Malawi	Malawi	Malawi	Malawi	Malawi	Mali	Mozambique
Number of Lots	11	10	10	4	10	2	14
Quantity	1,276,800	1,276,800	1,595,820	1,221,120	1,134,720	207,360	1,440,000
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	0	0
Novartis COA reviewed	9/23/08	9/24/08	12/19/08	2/6/09	4/14/09	5/19/09	Completed
NIR spectra obtained	100%	100%	100%	0%	0%	0%	100%

Destination	Malawi	Malawi	Malawi	Malawi	Malawi	Mali	Mozambique
Product	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®
Supplier	Novartis	Novartis	Novartis	Novartis	Novartis	Novartis	Novartis
PO number							PO-PUP-41
Requisition Order	798	798	766	766	766	1233	92
Contact Information							

Shipping Information	Malawi	Malawi	Malawi	Malawi	Malawi	Mali	Mozambique
Date desired in-country	Sep-08	Oct-08	Dec 08	Feb 09	Mar 09	mid May	Mar-08
Desired ship date			1/12/09	1/30/09	3/16/09		4/2/08
Actual ship date	10/3/08	10/20/08	1/5/09	2/9/09	4/6/09	5/17/09	4/21/08
Actual ship date - Desired ship date			-7	10	21		19
Arrival date	10/9/08	10/24/08	1/12/09	2/18/09	4/15/09	5/18/09	5/14/08
Arrival date - Ship date	6	4	7	9	9	1	23

Lot Information	Malawi	Malawi	Malawi	Malawi	Malawi	Mali	Mozambique
Lot number(s)	F1079	F1120	F1210	F1296	F1311	Dispersables:	F0885
	F1081	F1082	F1213	F1299	F1312	F0014	F0888
	F1117	F1130	F1216	F1303	F1314	F0020	F0923
	F1121	F1125	F1220	F1307	F1315		F0871
	F1106	F1127	F1221		F1316		F0874
	F1108	F1128	F1229		F1340		F0916
	F1109	F1129	F1231		F1357		F0917
	F1110	F1131	F1232		F1360		F0895
	F1112	F1119	F1251		F1331		F0897
	F1111	F1123	F1249		F1358		F0899
	F1115						F0890
							F0891
							F0893
							F0894
Quantity	1,276,800	1,276,800	1,595,820	1,221,120	1,134,720	207,360	1,440,000
Mfd date	Jul-08	Jul-Aug-08	Oct-Nov 08	Jan '09	Jan/Feb '09	Jan/Mar '09	Dec 07- Feb 08
Exp date	Jun-10	Jun-Aug-10	Sep-Oct 10	Dec '10	Dec '10/Jan '11	Dec '10 / Feb '11	Nov 09- Jan 10
Status	Completed	Completed	Completed	Completed	Completed	Completed	Completed
Comments/Actions							No Complaints reported

Coartem®

Destination	Mozambique	Mozambique	Mozambique	Tanzania/Addo's	Tanzania/Addo's
Number of Lots	15	11	10	3	5
Quantity	1,635,480	1,054,080	858,240	532,770	282,240
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
Novartis COA reviewed	3/4/09	4/14/09	10/19/09	Completed	6/29/2009
NIR spectra obtained	0%	0%	0%	100%	0%

Destination	Mozambique	Mozambique	Mozambique	Tanzania/Addo's	Tanzania/Addo's
Product	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®
Supplier	Novartis	Novartis	Novartis	Novartis	Novartis
PO number				POP-P-25/2	
Requisition Order	903	903	903	43	1307
Contact Information				heinz.muehlemann@novartis.com	

Shipping Information	Mozambique	Mozambique	Mozambique	Tanzania/Addo's	Tanzania/Addo's
Date desired in-country	Mar/Apr '09	Apr '09	Jul '09	Oct-07	
Desired ship date				9/28/07	
Actual ship date	4/14/09	6/5/09		9/28/07	6/29/09
Actual ship date - Desired ship date				0	
Arrival date	4/14/09	6/8/09	10/26/09	10/10/07	7/10/09
Arrival date - Ship date	0	3		12	11

Lot Information	Mozambique	Mozambique	Mozambique	Tanzania/Addo's	Tanzania/Addo's
Lot number(s)	F1261	Dispersables:	Dispersables:	F0775	F1428
	F1263	F0014	F0028	F0769	F1441
	F1264	F0013	F0029	F0766	F1489
	F1322	F0012A	F0040		F1468
	F1293	F0012C			F1467
	F1294			on Deliver website:	
	F1295	Regular:	Regular:	F0766 (3249)	
	F1323	F1335	F1537	F0769 (5700)	
	F1327	F1336	F1538	F0775 is not listed	
	F1307	F1379	F1524	F0776 (6640 pcs)	
	F1333	F1376	F1527	F0779 (2170 pcs)	
	F1287	F1378	F1528		
	F1289	F1381	F1530	hardcopy packing lists:	
	F1290	F1382	F1552	F0766 (3249)	
	F1291			F0769 (5700)	
				F0775 (3320)	
				F0776 (3320)	
				F0779 (2170 pcs)	
Quantity	1,635,480	1,054,080	858,240	532,770	282,240
Mfd date	Nov '08-Jan '09	Jan/Feb '09	Apr-Jul '09	Sep-07	Mar-May '09
Exp date	Oct-Dec '10	Dec '10/Jan '11	Mar-Jun '11	Aug-09	Feb-Apr '11
Status	Completed	Completed	Completed	Completed	Completed
Comments/Actions				website needs to show 3320 F0775 and 3320 F0776 in stead of 6640 F0776	

Coartem®

Destination	Tanzania/UNHCR	Tanzania/UNHCR	Uganda	Zambia	Zambia	Zambia	Zambia
Number of Lots	4	5	8	1	2	1	2
Quantity	146,730	236,160	1,140,480	80,640	172,800	92,160	149,760
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	0	0

Novartis COA reviewed	Completed	4/14/2009	12/9/08	9/23/08	12/1/08	5/20/09	6/29/09
NIR spectra obtained	100%	0%	100%	100%	100%	0%	0%

Destination	Tanzania/UNHCR	Tanzania/UNHCR	Uganda	Zambia	Zambia	Zambia	Zambia
Product	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®	Coartem®
Supplier	Novartis	Novartis	Novartis	Novartis	Novartis	Novartis	Novartis
PO number	PO-PUP-40		PO-PUP-151		PO-PUP-148		
Requisition Order	100	1038	933	843	899	900	902
Contact Information							

Shipping Information

	Tanzania/UNHCR	Tanzania/UNHCR	Uganda	Zambia	Zambia	Zambia	Zambia
Date desired in-country	Feb-08	Mar '09	Dec 08	Sep 08	Dec-08	May '09	Jun '09
Desired ship date	2/29/08		12/11/08	9/15/08	12/15/08		
Actual ship date	2/29/08	4/2/09	12/11/08	9/18/08	12/3/08	5/15/09	6/30/09
Actual ship date - Desired ship date	0		0	3	-12		
Arrival date	3/6/08	4/7/09	12/16/08	9/27/08	12/6/08	5/16/09	7/14/09
Arrival date - Ship date	6	5	5	9	3	1	14

Lot Information

	Tanzania/UNHCR	Tanzania/UNHCR	Uganda	Zambia	Zambia	Zambia	Zambia
Lot number(s)	F0823	F1360	F1201	F1118	F1198	F1377	F1460
	F0835	F1266	F1230		F1200		F1487
	F0850	F1358	F1245				
	F0877	F1359	F1208				
		F1316	F1210				
			F1217				
			F1218				
			F1219				
Quantity	146,730	236,160	1,140,480	80,640	172,800	92,160	149,760
Mfd date	Oct 07-Jan 08	Dec '08-Feb '09	Oct-Nov-08	Jul-08	Sep-Oct-08	Feb '09	Apr/May '09
Exp date	Sep-Dec 09	Nov '10-Jan '11	Sep-Oct-10	Jun-10	Aug-Sep-10	Jan '11	Mar/Apr '11
Status	Completed	Completed	Completed	Completed	Completed	Completed	Completed
Comments/Actions	No Complaints reported						

Appendix E:

Short Term Technical Assistance

Angola:

(October 14, 2008 – November 6, 2008) Marlon Banda, Chris Warren

(April 19 – May 15, 2009) Chris Warren

Technical Advisors from the project traveled to Angola twice this year to assist the PNME and NMCP in the planning, receipt, storage and distribution of total of 3.8 million treatments of PMI procured ACTs that were delivered by chartered aircraft to minimize the risk of leakage. In addition to the successful transfer of the commodities to the possession of the PNME, USAID | DELIVER PROJECT set up a stakeholder working group to involve PNME, USAID, WHO, GFATM, PMI awarded NGOs and other relevant stakeholders to review malaria medicines and commodity procurement and distribution in Angola.

(August 10 - August 20)

The project's Supply Chain Technical Advisor returned to Angola in August to elaborate the criteria necessary for the USAID | DELIVER PROJECT investigation into alternate warehousing and distribution plans for future shipments of PMI procured commodities from the central to provincial levels. The project built upon previous experiences in Angola to explore scenarios for alternate warehousing and distribution plans.

Benin

(December 7, 2008 – December 19, 2008) Meba Kagone, Allison Belemvire

(January 14, 2008 – January 23, 2008) Meba Kagone

In December, Meba Kagone, Senior Program Manager and Allison Belemvire, Program Officer collaborated with PSI/Benin and NMCP Benin to develop a plan for the distribution and storage of the LNs from the port of Cotonou to storage locations in 31 Health Zones. In January the Senior Program Manager returned to Benin to provide in-country technical assistance, collaborate with stakeholders involved with the distribution to the health zones and to ensure that the LN arrived in good condition as well as in the correctly allocated quantity to designated facilities. Once the developed plan for distribution had been executed under the guidance of USAID | DELIVER PROJECT staff, subsequent distribution of PMI procured LN were successfully handled by the UPS Benin agent.

Ghana

(July 12 – August 4) Erika Ronnow, Senior Technical Advisor, Mike Frost, Program Officer. Meaghan O'Keefe, Program Officer

In July the project collected data for malaria and family planning as well as tracer commodities for HIV/AIDS, tuberculosis, and essential medicines through a combination of tools and methodologies seeking to improve existing processes, including using the Lot Quality Assessment

Sampling (LQAS) methodology to sample for the End-Use Malaria Monitoring Activity (EMMA), reviewing the Pharmacy Tool currently used for supervisory activities, and providing training on both to local staff. In addition, the STTA was used to test the beta version of EpiSurveyor, software which enables data collection via cell phones.

Liberia

(April 6-May 7, 2009) Meba Kagone

In April a Senior Program Manager travelled to Liberia to work with national counterparts, stakeholders and USAID/Liberia to assure continued implementation of the USAID | DELIVER Project activities.

(April 22 – May 27) Marlon Banda, Procurement Coordinator, Team Leader, William Ampong, Finance Manager, Paula Ginchereau, Senior Finance Manager, Elias Epstein, Senior Finance Manager

In April a team comprised of United States and Ghana based staff travelled to Liberia to provide support to the NMCP and other partners in the planning, clearance, receipt, storage and door-to-door distribution of the 430,000 PMI-funded LNs delivered at the end of April 2009

Rwanda

An IT data manager from the home office came to help the project set up Supply Chain Manager (SCMGr) Software, which will be piloted at the central level in the office. The TA provider also developed a database for collecting malaria quantification data. Reports from districts will be collected and data entered into SCMGr for the last first quarter of 2009. If the test is conclusive, the project will include the software in the list of programs to be reviewed by the MOH for the computerization of the LMIS in Rwanda.

TA was also provided by the home office M&E team. The objective of the technical assistance is to assist the country office to develop a monitoring and evaluation plan and organize its implementation.

(July 19 - August 1, 2009) Jennifer Antilla

One technical advisor traveled to Rwanda for two weeks to facilitate the Pre Service Initiative, which introduces logistics into the curriculum of future pharmacists, nurses and health workers. The STTA consisted of conducting a Pre Service assessment, then meeting with stakeholders to plan and prepare for the implementation.

(April 21 - May 9, 2009) Jennifer Antilla and Gary Steele

The project also conducted a two week long Supply Chain Management Course, which was facilitated by two technical advisors from the Home Office. 24 participants, who came from various programs and organizations, attended the course.

Senegal

(March 8, 2008 – March 27, 2008 and May 26 – June 10) John Durgavich

In March, John Durgavich, Technical Advisor assisted the National Malaria Control Program of Senegal and other partners in the planning and execution of, clearance, receipt, storage and

distribution of 790,000 LN and printed materials procured by PMI and four other partners that will be integrated into national campaigns by the Ministry of Health.

Sudan

(January 26, 2009 – February 6, 2009 and June 2nd – June 18th, 2009) Chris Warren

In January, the project's Supply Chain Technical Advisor travelled to Southern Sudan to assist the Malaria Control Program, the Directorate of Pharmaceutical Services and the Central Medical Stores of GOSS MOH in the planning and execution of activities related to the , clearance, receipt, storage and onwards distribution to State HQs of 1.6 million antimalarials treatment.

Tanzania

(October 26, 2008 – October 24, 2008) Eric Takang, Susan Duberstein

In October, Eric Takang, Senior Program Manager and Susan Duberstein, Program Officer travelled to Tanzania to provide technical assistance to the NCMP and PSU to update the annual quantification for three programs on the mainland (mainland public sector, the ADDO program, and UNHCR). Quantifications provide data needed to identify funding gaps and update supply plans.

(March 16, 2009 – March 31, 2009) Eric Takang

In March, Eric Takang, Senior Program Manager provided assistance to the National Malaria Control Program and PSU for the annual quantification of antimalarials for both the public and Private sectors to identify funding gaps and make recommendations to fill these gaps. The results of this activity provided inputs to the proposal to be submitted to Affordable Medicine Facility for malaria.

January 15, 2008 – February 15, 2008) Jaya Chimnani, Mike Frost

In January, Jaya Chimnani, Monitoring and Evaluation Associate and Mike Frost, Project Program Officer travelled to Tanzania for a pilot of the quarterly data collection for the end use verification tool; this tool provides a snapshot of antimalarial product availability at 20 facilities and identifies short term interventions.

Zimbabwe

(February 15, 2009 – April 10, 2009) Allison Belemvire

IRS is the pillar of the National Malaria Control Program (NMCP) in Zimbabwe but because the NMCP was unable to carry out routine IRS activities during the past rainy season the USAID | DELIVER PROJECT sent Allison Belemvire, Program Officer to Zimbabwe in January to assist with the overseeing of emergency Indoor Residual Spraying (IRS) activities in Zimbabwe at the request of USAID. While in Zimbabwe the technical assistance revolved around acting as the USAID | DELIVER PROJECT's liaison for coordinating the inputs and activities of the project, Crown Agents, the MOHCW, PLAN, the National Institute of Health Research, as well as other partners

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

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