



PRESIDENT'S MALARIA INITIATIVE



## INDOOR RESIDUAL SPRAYING FOR MALARIA CONTROL

# Madagascar FY08 Work Plan

Indoor Residual Spraying (IRS) Indefinite Quantity Contract (IQC)  
Task Order 1

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Prepared for:  
United States Agency for International Development

Prepared by:  
RTI International  
3040 Cornwallis Road  
Post Office Box 12194  
Research Triangle Park, NC 27709-2194

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# I. Introduction, Background and Summary

RTI International (RTI) will support Madagascar's Ministry of Health, Family Planning and Social Protection (MOHFPSP) and partners to develop and implement an indoor residual spraying (IRS) campaign in selected 6 districts of Central Highlands. RTI will also work in collaboration with other USAID partners as directed by the USAID/ Madagascar Mission and PMI staff to ensure comprehensive and coordinated support for the National Malaria Control Program (Service de Lutte contre Paludisme, or SLP).

RTI will work with the SLP to determine the material, logistical, and financial support required for the IRS program and associated environmental compliance activities. RTI will also arrange for all procurement, shipping, delivery, and storage of essential materials and equipment, including spray pumps, insecticides, personal protective equipment, drugs for treating pesticide poisoning, and supplies for entomological surveillance.

RTI will provide technical and operational support for IRS operations, including support for training and a workshop on vector control strategies, monitoring, and quality assurance activities. RTI will support existing IRS community mobilization activities and the development of information, education, and communication (IEC) materials to promote spraying activities. RTI will also provide support to strengthen the entomological capacity of the SLP to monitor IRS activities and the procurement of entomological equipment.

Activities and time schedule in this work plan were reviewed and approved by SLP. This work plan is for the time period from June 2008 to May 2009.

This work plan addresses outstanding issues identified during the previous IRS campaign (28 January- 9 March 2008) as follows:

**Need to harmonize per diem rates:** Under the leadership of USAID and SLP, an agreement was reached on an updated per diem scale to reflect real cost.

**Need for work plan development that clearly identifies tasks and responsibilities:**

The June 2008-May 2009 annual work plan and associated budget was developed in collaboration with SLP.

**Need for expertise on the ground and a stronger leadership role for RTI:** RTI and SLP propose an improved, effective field presence for the next campaign. RTI will recruit a financial assistant and a logistics assistant for each intervention district to provide appropriate support to IRS teams.

**Need for new storage facilities:** RTI has identified with SLP two national storage facilities. The final decision will be made with the USAID environment specialist. In addition, RTI will contract storage facilities in compliance with safety criteria at the commune level. RTI foresees

renting approximately 106 commune (local) warehouses for 2 months for the 2008 IRS campaign. A solicitation for proposal will be posted in each intervention commune.

**Need for clear and appropriate strategy for management and disposal of empty sachets and pesticide residues:** SLP will be responsible for collection of used sachets from the Fokontany and transporting them to the main central warehouse. Working with Crown Agents, RTI will be responsible for defining a plan for disposal of used sachets from central warehouses. Our plan will take into consideration internal conventions and laws regarding the transport of hazardous waste across international boundaries. Most likely, this will involve shipment for incineration abroad. Definition of this plan will be a work plan activity and we will provide USAID with a draft of that plan upon completion.

**Need for training of storekeepers and capacity building:** RTI has included in the annual work plan and budgeted for training of storekeepers, drivers and primary health clinic service providers as part of pre-campaign activities.

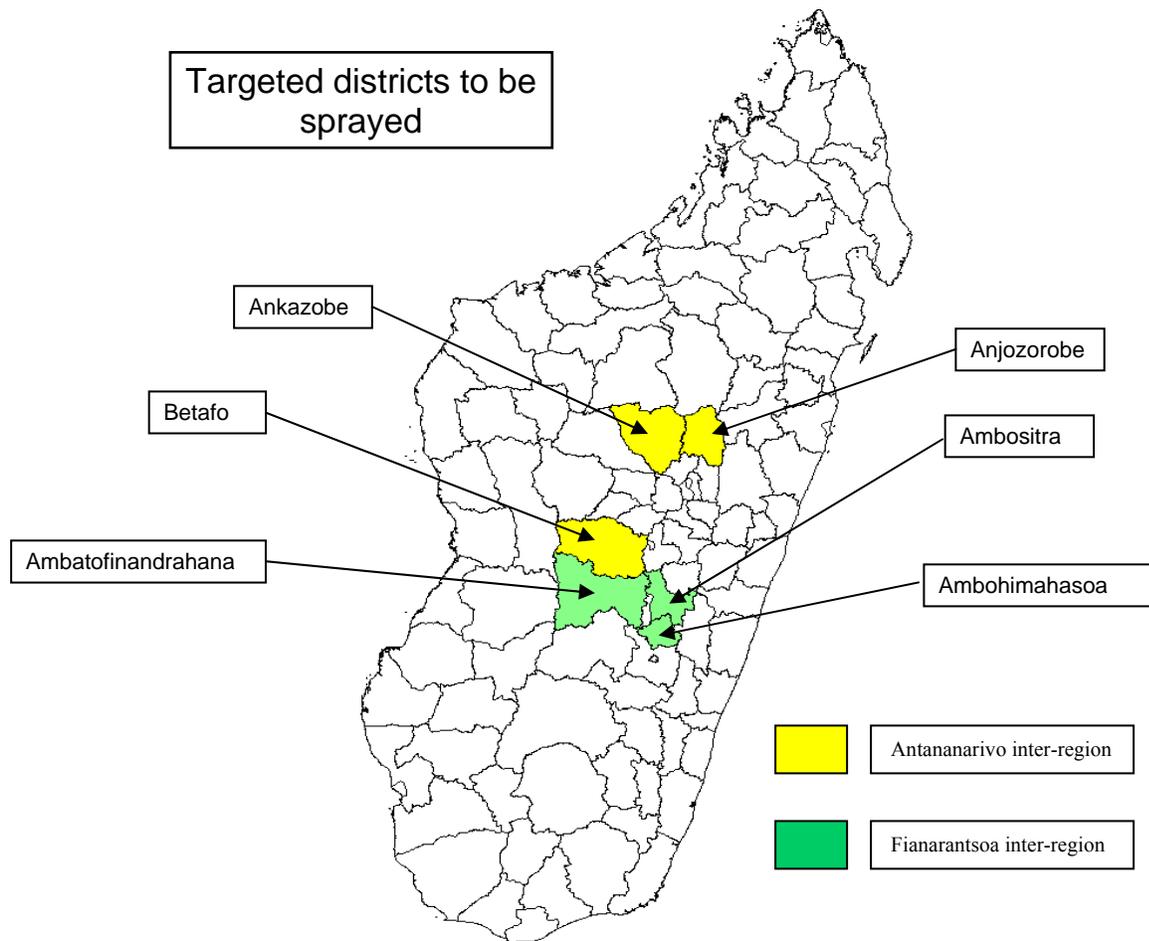
**Better involvement of the Office National de l'Environnement (ONE):** RTI has discussed with SLP and agreed to include the Ministry of Environment, ONE and Ministry of Agriculture representatives in the district supervision teams.

**Need to minimize insecticides released into the environment:** RTI and SLP agreed to introduce a progressive triple rinsing strategy and the use of soak pits during the 2008 campaign.

## **Objective & Expected Results**

As indicated in the Malaria Operational Plan FY 2008 for Madagascar, RTI with direction from USAID will:

- Support spraying in 6 epidemic-prone health districts (Anjozorobe, Ankazobe, Betafo, Ambositra, Ambatofinandrahana, Ambohimahasoia) of the Central Highlands in November 3-28, 2008 (please see map on following page). Funds will be used to purchase insecticides, equipment, and protective gear. Approximately 250,000 households will be sprayed each year, protecting an estimated 1.25 million residents in 6 priority health districts. A portion of these funds will be used for training, supervision, IEC, and behavior change communication to ensure public support of the spraying activities, and monitoring and evaluation of the IRS program.



- Ensure environmental compliance of IRS operations. RTI and SLP have taken all necessary actions to effectively implement the environmental recommendations made for 2007/2008 IRS campaign.
- Support an evaluation of Year 2 activities that can be used by the SLP, PMI and other donors to guide future decisions on the most effective and cost-effective approaches for vector control in areas of unstable transmission in Madagascar.
- Strengthen entomologic capabilities at the IDEM to ensure continuous entomological monitoring of IRS and insecticide treated nets distribution as well as insecticide resistance testing.

- Provide implementation support for The Global Fund to Fight AIDS, Tuberculosis and Malaria (GFATM) funded IRS campaign in 24 districts of the Central Highlands, upon the request of SLP and approval of USAID/Madagascar and PMI.

## II. Overview of Strategy for IRS Country Support

The malaria elimination policy in Madagascar includes IRS as a major prevention strategy for malaria in areas of seasonal or unstable transmission. IRS campaigns first started in the Central Highlands in 1993 and have been carried out every year since, with the exception of 2000 and 2001 due to lack of funding. Thus, RTI's 2008 activities will address the complex issues of long-term sustainability through skills transfer and collaboration with the MOHFPSP to promote ownership of financial responsibilities and other key functions.

RTI will also support the SLP to strengthen collaboration with the Ministry of Environment (MOE), Ministry of Agriculture (MOA) and Office National de l'Environnement (ONE). The areas of collaboration will include participation of MOE, MOA and ONE specialist in pre-campaign training and in supervision of spray operations to ensure compliance with environmental quality assurance. RTI will support the SLP in integrating IRS related IEC strategies and tools with MOHFPSP IEC policy.

## III. IRS Activities

### Start-up

RTI conducted start up activities in 2007 and recruited and hired the COP, finance manager and logistician. The home office technical manager (HOTM) will be working with the in-country team and the USAID mission to hire key staff. The RTI-IRS/Madagascar team full time personnel will include an IRS program manager, finance officer, logistics officer and finance/program/logistic assistants. In addition, RTI will recruit a seasonal (during the pre and post-campaign period) environmental specialist for 6 months and one logistical and one financial assistant for four months for each district to follow spraying operations on the ground.

### Planning and Assessment

- Logistics assessment: The logistics assessment was conducted in 2007 by the SLP.
- Environmental assessment and compliance: The environmental document currently in force for the Madagascar IRS program is a "PERSUAP" (Pesticide Evaluation Report and Safe Use Action Plan) signed in 2006. This document contains most of the essential information included in a Supplemental Environmental Assessment. An update of the PERSUAP, and turning it into an SEA, is part of this year's work plan. The SEA will be written to a class of insecticides (pyrethroid). Environmental recommendations made by

the USAID regional environment advisor were taken into account and the required actions taken to ensure full compliance in the next IRS campaign.

- Pesticide selection: The SLP, in consultation with WHO, decided to use pyrethroid class insecticides.

## **Procurement and Logistics**

- Procuring pesticides and related supplies: Pesticide and personal protective equipment (PPE) specifications and quantities, as well as technical specifications for the category of pesticide, will be provided to RTI by the SLP. RTI will specify the surface to be sprayed in its quotes for tenders.
- Managing pesticides and related supplies: All pesticide and related supplies will be stored in appropriate warehouses, to be identified in consultation with PMI staff. During the spray operations, temporary warehouses will be established in all intervention communes. Records of entry and exit will be maintained by warehouse staff. All store keepers and drivers will receive training to ensure compliance with environmental and logistical standards and procedures while handling insecticides.

## **IEC Development and Implementation**

The SLP will take the lead for IEC strategy development and implementation. RTI will assist the SLP to manage IEC strategy implementation.

## **Indoor Residual Spraying Operations**

- Recruitment and training for spray teams: Spray operators will be recruited by the SLP. Training of spray operators will be conducted in a similar fashion to that of the IEC mobilizers and will be conducted by the SLP with the help of RTI.
- Geographic planning, recruitment, and orientation for district leadership/administration: RTI will work in close collaboration with the SLP, regional leadership, and district health offices to develop geographic planning. This planning will determine the number of households and villages within each intervention zone and district. The RTI IRS team will work with the SLP to use this information for logistics planning, including the number of teams, soak pits, and storage facilities in each area.
- Environmental compliance preparation: RTI will work closely with the SLP, the Ministry of Environment, the Ministry of Agriculture and ONE to provide qualified staff for monitoring environmental safety and compliance with the environmental guidelines recommended by each agency and the SEA report as well as those required by RTI. These individuals will have the task of monitoring the safe handling of insecticide, the proper use of personal protective gear, and the proper construction and marking of areas

designated for washing equipment, disposing of rinse water and recuperating used sachets.

To mitigate adverse environmental impacts during spray operations, RTI will:

- Anticipate adverse impacts on human health and livestock to avoid, minimize, mitigate, and correct problems before cumulative effects are experienced.
- Provide WHO-standard personal protective equipment (PPE) to all spray teams for IRS activities.
- Train all spray teams and drivers on good spraying techniques and how to respond in cases of emergency.
- Create awareness and sensitize targeted populations to the “do’s and don’ts” before and after spraying to reduce exposure incidents.
- Undertake pregnancy testing for all female spray candidates and general physical testing for all spray teams.

In addition to these activities, RTI will ensure active surveillance of any adverse events that may occur during or as a result of spraying.

RTI will conduct training for all surrounding health care facility personnel on emergency response to acute pesticide poisoning and equip surrounding health facilities with the recommended antidotes for pesticide poisoning. RTI will also locate storage facilities in environmentally sound sites and ensure that they are secured to avoid incidences of pilferage. The team will ensure that all pesticide residue, empty sachets, and unused pesticides are properly disposed of or stored securely. We will ensure that empty sachets are shipped back to the manufacturer.

- Logistics support for spray operations: Initial commodities will be delivered by Crown Agents. The COP and logistics officer will make arrangements for an inventory and the storage of items in the warehouse. All materials and equipment will be subject to a strict control process with particular emphasis on the chain-of-custody of insecticide.
- Post-spraying operations: Post-spray operations will be conducted by the SLP in collaboration with RTI, Ministry of Agriculture, the Ministry of Environment and ONE. The following activities will be implemented:
  - Prepare end of spray report based on data collected during spray operations for presentation to the IRS team and all relevant partners.
  - Submit end of spray round report to USAID.
  - Store all equipment in the central warehouses of Antananarivo and Fianarantsoa.
  - Clean, fix, and store all PPE for use in the following round.
  - Maintenance of project vehicle used during campaign

- Store remaining pesticide based on the instructions from the USAID team in Madagascar, the SLP, and the Ministry of Environment.
- Recuperate and consolidate used insecticides sachets for shipment abroad for proper disposal.
- Immediately after the end of a spray round, RTI staff will begin to work in collaboration with the SLP in the preparation for the next spray round. Preparations for a spray round and IRS planning activities will start at least 6 months before the next round.

## Other Activities

- Technical assistance to generalized IRS campaign: RTI will focus on six districts in the central highlands. The MOHFSP with funding from GFATM will spray in the remaining 24 districts. RTI will provide targeted STTA to improve the quality and performance of the generalized campaign. RTI will collaborate with SLP and MOHFSP Project Management Unit (principal recipient of GFATM) to identify technical assistance needs for a harmonized generalized IRS campaign.
- Environmental compliance in other 24 districts: Environmental compliance will be monitored by the RTI environmental specialist, SLP, Ministry of Environment specialist, and Ministry of Agriculture and National Office of Environment (ONE) experts. The RTI Nairobi regional office environmentalist will travel to Madagascar to train the local environmental specialist (to be hired).
- Entomological monitoring: Entomological monitoring will be carried out by the SLP and CDC. RTI will work with the SLP in developing a data collection form and will provide financial support to the activity.
- Capacity building in monitoring and evaluation: Post-spray operations quality control (QC) monitors from SLP and RTI will be tasked with monitoring the quality of the IEC campaign, the quality of the spraying performed by the operators, and the proper use of Personal Protective Equipment (PPE). The QC monitors will provide on-the-spot corrections and/or dismiss personnel when necessary for serious issues. In addition, they will perform unannounced roll calls to ensure everyone is present and audit spray cards against homes recorded. They will also interact with the population served and determine the level of service satisfaction in areas of IEC and spraying.
- RTI will provide ad hoc technical assistance as requested by SLP and approved by USAID/Madagascar.
- RTI will work with SLP to identify the needed content of the emergency kits for accidental or over exposure and determine whether or not the appropriate medical supplies are available at health facilities in communities where RTI is supporting spray

operations. If these medical supplies are not available RTI will work to estimate the cost of these products.

## IV. Management Plan

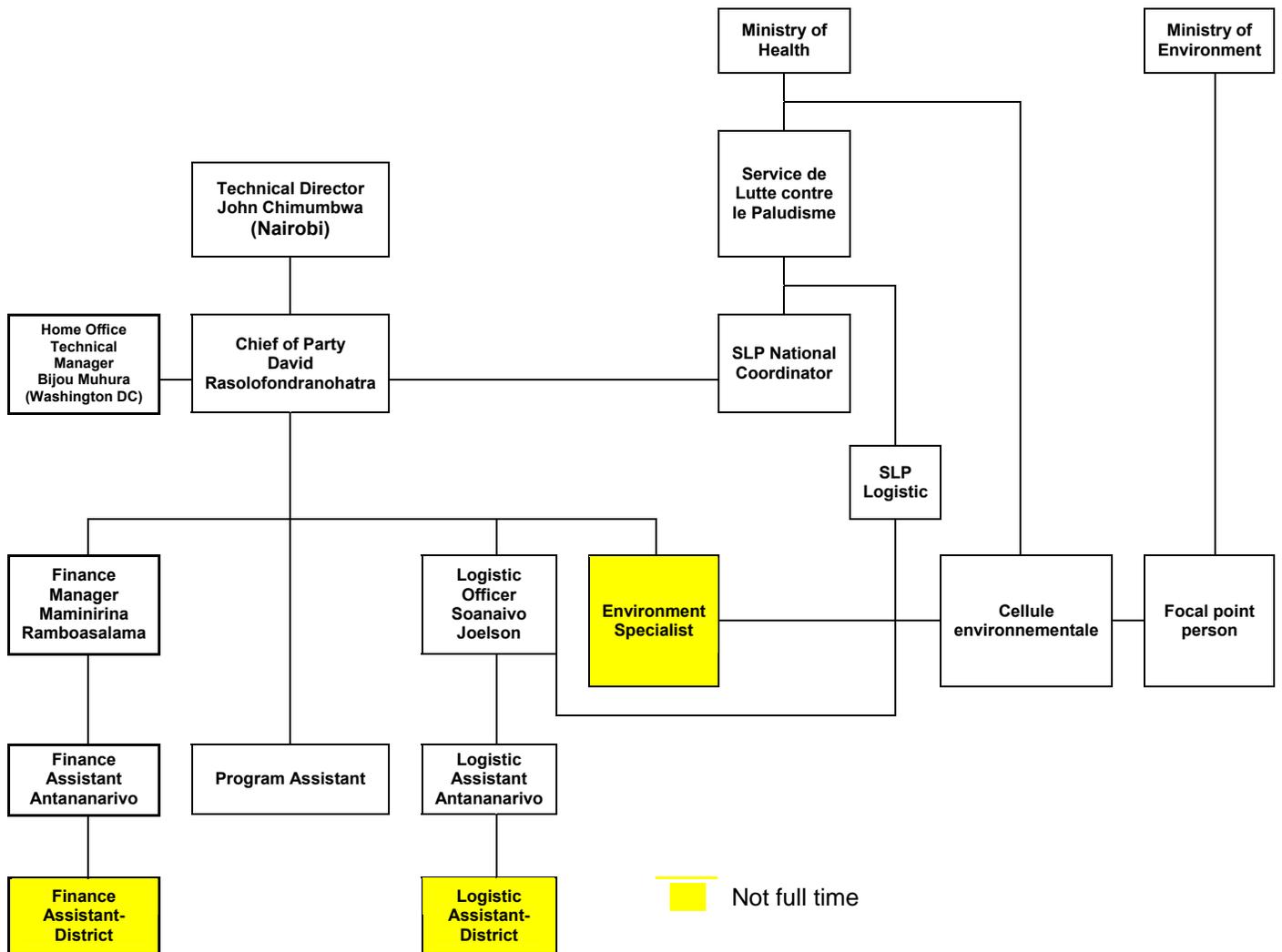
RTI's chief of party and team, including the finance manager, logistics officer, environmental officer, long-term support staff, temporary field staff, and short term technical assistance will fulfill three principal functions in close collaboration with the SLP and Ministry of Environment:

- ***Lead and facilitate an effective partnership*** with the central and peripheral malaria control program staff and other stakeholders working in IRS campaign;
- ***Manage, oversee and coordinate all IRS planning and implementation***, including timely deployment of project resources, ***monitoring and evaluating*** activities against agreed upon outcomes, and ***reporting*** to USAID/PMI, the SLP, and partners on campaign progress and achievements; and
- ***Delineate internal lines of communication for effective management*** to ensure that the team contributes to quality outcomes and results and works efficiently with other partners in the IRS campaign.

The chart below depicts the staffing structure in the Antananarivo office. RTI staff will work closely with MOH at the national and regional levels and with zone and sector managers. Arrows in the chart represent close coordination between RTI, MOH, and the Ministry of Environment at the national level.

### Table 1: Staffing Structure

The organization chart below shows both our IRS TO1 staffing structure for Madagascar and its relation to the SLP.



**Table 2: Strategic Technical Assistance and TDY Plan**

Name	Type of TA (consultant, RTI employee, local, international)	Coming from ( USA or Nairobi )	Tasks to be undertaken or activities to be supported	Number of visits
Home Office Technical Manager (HOTM)	RTI employee, international	USA	Trip 1 (September 08; LOE 5 days cost shared) reviewing IRS work plan with mission. This trip will be cost shared  Trip 2 (March 09; 10 days) Participation in IRS campaign results dissemination workshop	2
Sam Mesfin, Nairobi Controller	RTI employee, international	Nairobi	Trip (November 08; LOE 5 days): On-job training of Madagascar team finance assistant and refresher training of finance manager on USAID rules and regulations and audit compliance.	1
John Chimumbwa, Technical Director	RTI employee, international	Nairobi	Trip (December 08; LOE 10 days): participate in end of spray round activities and work with CDC/PMI entomologist during planned TDY to Madagascar.	1
Gaspard Bikwemu, Environmental Inspector	RTI employee, international	Nairobi	Trip 1 (October 08; LOE 10 days): training of RTI/Madagascar environmentalist, conduct pre-environmental inspections  Trip 2 (December 08, LOE 10 days): conduct post environmental inspections in collaboration with RTI/Madagascar team environmentalist	2

## V. Monitoring and Evaluation

Indicators to be collected by the SLP during IRS operations: This information will be collected at the household level and disaggregated by sex.

Indicators	Target
Number of households treated with indoor residual spraying in targeted districts	250,000
Number of people surveyed in targeted communities who report accurate	1,250,000

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*Indoor Residual Spraying (IRS) Indefinite Quantity Contract (IQC) – Madagascar*

knowledge in malaria prevention including IRS IEC messages	
Average number of insecticide sachets used per household sprayed	0.5 sachet per household sprayed
Average percentage of IRS oversight checklist items that met requirements for environmental compliance	
Monitoring of vector insecticide susceptibility, vector density, vector behavior, vector species composition, and IRS insecticide decay rate	Entomology surveys: <ul style="list-style-type: none"> <li>○ Pre - IRS</li> <li>○ Post- IRS</li> </ul> 4 sites
Number of people who receive training in malaria prevention (by gender): <ul style="list-style-type: none"> <li>○ Sprayers</li> <li>○ Health providers</li> <li>○ Community health workers</li> </ul>	<ul style="list-style-type: none"> <li>○ Sprayers: 750</li> <li>○ Team leader: 100</li> <li>○ Sector/zone managers: 36</li> <li>○ Health providers: 150</li> <li>○ CHW: 2100</li> </ul> Total : 3 136
Number of national and local health officials who participated in leadership roles for IRS planning or implementation during the last reporting period	National: 10 Region: 6 District: 24 Clinics (CSB): 150

Information collection plan: RTI will work with the SLP on the information collection plan. The plan will then be sent to USAID.

Reporting plan: The SLP and RTI will work on a reporting plan to keep the Mission informed during spray operations. During non spray seasons, the COP will meet regularly with the SLP, the Mission, and other relevant partners as needed to keep them informed about post spray operations and preparations for the new spray round. The Home Office Technical Manager will regularly confer with USAID/Washington to keep the team informed about in-country operations.

RTI will send monthly country updates including issues or challenges facing the project to USAID.

# Attachment % Madagascar Implementation Plan and Timeline

For period from June 2008 to May 2009

Component	Activity	Person/ partner Responsible	Project Month												Key Milestones	
			J	J	A	S	O	N	D	J	F	M	A	M		
<b>Campaign Start-up/ Mobilization</b>	Deploy key personnel – Environmental Officer, Finance Assistant, Program Assistant, Logistics Assistant	Home Office Technical Manager (HOTM)														Country work plan approved by USAID. MOU/aide memoire signed.
	Establish Central warehouses	COP, Logistics Officer														
	Recruit staff (Finance and Logistics Assistants) to work in satellite (district) offices with the SLP	RTI, SLP														
	Establish an IRS Task Force	COP,HOTM, SLP, USAID														
<b>Planning and Assessment</b>	Complete work plan approved by all partners	COP														Logistics & baseline entomology assessments completed. Insecticide distribution plan developed. Pesticide selected. SEA prepared and approved.
	Develop and validate a commune level insecticide distribution plan with the SLP, MOE, and all partners	HOTM, COP, Logistician														
	Complete baseline assessment, test insecticides, and select insecticide	SLP														
	Develop insecticide technical specifications	SLP, RTI														
	SEA prepared	RTI/HO														
<b>Procurement and Logistics</b>	Release tender notice for procurements	Crown Agents														Technical specifications released. Vendors selected. Insecticide, PPE and equipment delivered. Inventory conducted and records prepared. 110 store keepers and 20 drivers trained
	Review and select vendors	Crown Agents														
	Receive and inventory insecticide, PPE, and equipment	Crown Agents, RTI														
	Ship and transport equipment and materials to storage facilities	Crown Agents, RTI														
	Conduct inventory and maintain records of entry and exit in storage facilities	RTI, SLP														
	Identify responsibility for collecting and disposing of used insecticide sachets	Crown Agents, RTI, SLP														
	Train storekeepers (central and communes) and drivers	SLP, RTI														
<b>IEC Development &amp; Implementation</b>	Identify IEC mobilizers	SLP, RTI														Needs assessment completed. IEC materials produced. Training completed. Campaign launched.
	Develop geographical reconnaissance map to inform IEC activities during spraying	SLP, RTI														
	Train IEC mobilizers	SLP, RTI														
	Establish contact and brief district, commune and village leaders	SLP, RTI														

Component	Activity	Person/ partner Responsible	Project Month												Key Milestones	
			J	J	A	S	O	N	D	J	F	M	A	M		
	Conduct village gatherings and door-to-door visits	SLP, RTI														
	Disseminate IEC messages through media	SLP, RTI														
	Conduct geographic planning	SLP, RTI														
Spraying Operations	Monitor environmental safety and compliance with environmental guidelines	RTI, SLP, MOE, MOA														District staff recruited and trained. Medical check-ups completed. Training completed. Spraying launched. Spraying completed. Equipment and supplies recaptured.
	Train health personnel and equip health centers to respond to pesticide poisoning	SLP, RTI														
	Training of trainers ( Coordinators, Zone managers and Sector managers)	SLP, RTI														
	Train spray operators	SLP, RTI														
	Identify and secure transportation for spray teams	SLP, RTI														
	Conduct spraying activities	SLP, RTI														
	Collect, clean, and store equipment and remaining pesticide for next round of spraying	RTI,														
	Submit data and report to USAID, IRS task team, and stakeholders	SLP, RTI														
	Conduct an internal compliance inspection and submit report to stakeholders	SLP, RTI														
Technical assistance to generalized IRS campaign	Improve general campaign quality and performance to targeted STTA (e.g. environmental assessment, training ...)	RTI														STTA provided based upon needs.
Monitoring & Evaluation	Conduct an internal pre and post compliance inspection and submit report to stakeholders	Gaspard Bikwemu (RTI Environmental inspector)														M&E reports submitted to USAID. Post-round evaluation completed.
	Conduct monitoring of number of people trained on the IRS project	SLP, RTI														
	Record number of insecticide sachets used per household and number of used sachets recovered after spraying	SLP, RTI														
	Prepare end of spray report	SLP														
Entomological Monitoring & Evaluation	Mosquito collections with test of susceptibility, density, taxonomy, bionomics	SLP, RTI													Logistic support provided to the SLP	

## Attachment 2: Madagascar Countdown Calendar

For period from June 2008 to May 2009

Component	Key Milestone	Date to be Completed	Status (e.g., date achieved)	Antecedent to:
<b>Campaign Start-up/ Mobilization</b>	Country work plan approved by USAID	Aug 2008		Producing MOU and/or aid memoires
	MOU/aide memoire signed with government and/or key partner	Aug 2008	Completed November 29, 2007	Initiating planning activities with government and/or key partners
<b>Planning and Assessment</b>	Logistics assessment completed	SLP; June 2008		Planning scope and scale of operations and procurement to be required
	Baseline entomology assessment completed	June 2008		Pesticide selection
	Agreement reached with USAID and government on pesticide selection	SLP, June 2008		Permission for spray operations
	Supplemental Environmental Assessment completed	Aug 2008	Completed by RTI	Finalization of EA and approval
	SEA approved by USAID	Aug 2008		Permission for spray operations
	EIA approved by national environmental agency, if required	Aug 2008		Procurement
<b>Procurement &amp; Logistics</b>	Technical specifications for tenders approved and released	SLP; June 2008		Ordering supplies for spraying
	Vendor selection and procurement process completed	Crown Agents; July 2008		Delivery of supplies for spraying
	Compression sprayers delivered	Crown Agents; October 2008		Spray operator training
	Insecticide and PPE delivered	October 2008		Initiation of spray operations
<b>IEC Development &amp; Implementation</b>	Existing IEC materials reviewed and updated	SLP; Sept 2008		IEC material design
	IEC materials produced and delivered to project	SLP, September 2008		Training of IEC mobilizers
	Training of IEC mobilizers completed	SLP, October 2008		Implementation of IEC campaign
	IEC campaign launched	SLP, October 2008		Spraying operations
<b>Spraying Operations</b>	Geographic reconnaissance completed	September 2008		Team assignments and logistics arrangements
	District staff recruited, oriented and trained	With SLP, September 2008		Completion of operational logistics and EM set up
	Operational logistics and environmental	With SLP, October 2008		Spraying operations

<b>Component</b>	<b>Key Milestone</b>	<b>Date to be Completed</b>	<b>Status (e.g., date achieved)</b>	<b>Antecedent to:</b>
	mitigation set up at operational sites			
	Medical check-ups (including pregnancy tests) for sprayers, supervisors, warehouse staff, cleaners, etc. completed	With SLP, October 2008		Permission to spray
	Training of spray operators completed	With SLP, October 2008		Spraying operations
	Spray operations launched	With SLP, November 2008		
	Spraying operations completed	With SLP, December 2008		Recapture and proper management of equipment and supplies
	Equipment and supplies recaptured and securely disposed or stored	With SLP, February 2009		Environmental compliance
	Post-spraying evaluation conducted	With SLP, February 2009		Final report production
	Final report produced and submitted to USAID	With SLP, March 2009		
<b>Technical assistance to generalized IRS campaign</b>	Identification STTA needs	With SLP September 2008		Conditional to funding available for generalized campaign
	In country deployment of STTA	October, November, December 2008		
<b>Entomological Monitoring &amp; Evaluation</b>	Data collection plan developed	SLP, February 2009		