



**REPORT OF THE**

**STRATEGIC PLAN FOR ENHANCING LOCAL PESTICIDE  
STORAGE CAPACITY TO SUPPORT THE NIGERIA-ASP  
PREVENTION COMPONENT**

**IN**

**ONDO, ANAMBRA AND KANO STATES**

**BY**

**Sustainable Research and Action for Environmental  
Development (SRADev Nigeria)**

In Collaboration with

**Department for International Development  
(DFID)**

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## **1.0 BACKGROUND: About Pesticides and Africa Stockpiles Program (ASP)**

The Africa Stockpiles Programme (ASP) aims to reduce the risks of hazardous obsolete pesticides, and to improve pesticide management and prevent accumulation of such stockpiles in the future. PAN UK and PAN Africa is funded three NGOs on community projects that contribute to the Africa Stockpiles Programme (ASP) national programmes, with funding from the UK Department for International Development (DFID). The PAN ASP Fund objective is to fund small-scale NGO or community projects in participating ASP countries which contribute to the national ASP programme and its objectives.

Sustainable Research and Action for Environmental Development (SRADev Nigeria) got the NGO fund for Nigeria cutting across *“Awareness raising and communication”* and *“Prevention of Obsolete Pesticides”* categories of the project scope, to undertake the *“Strategic planning for enhancing local pesticide storage capacity to support the Nigerian-ASP prevention component”*.

## **2.0 INTRODUCTION**

Pesticide use in Nigeria has been on the increase ever since its introduction in the early fifties. It has been estimated that about 125,000 - 130,000 metric tons of pesticides are applied annually in Nigeria (Ikemefuna, 1998). However, more than thrice this quantity is being imported into the country every year. So, there has been accumulation of large quantities of pesticides.

The Nigeria-Africa Stockpiles Programme aims to clean up and safely disposed of all obsolete stocks from Nigeria and establishes preventive measures to guide future accumulation. Some of the most visible and significant stockpiles of pesticide are stored in large, centralized pesticide stores across the states. This is as a result of emergency procurement of products to deal with locust and other pest invasions in recent past. Pesticide stocks are essential requirements of modern society that need to be managed properly in order to achieve a sustainable level of

agriculture and industrial development, and a high level of environmental and human health protection has to be put into consideration.

The storage of these substances may cause direct exposure to workers in poorly maintained stores and the general public where access is unrestricted. The unwanted build-up of these substances is due to inadequate stock management, uncoordinated or inappropriate supply from donor agencies, unsuitable packaging and non-distribution to the farmers. Despite the ban on certain categories of pesticides, these substances are still common in the markets and store houses in the country.

The public is likely to be exposed to pesticides through the use of empty pesticides containers, inadequate storage, handling and inefficient methods of usage, disposal by smallholders of stocks. The Nigeria-ASP however has no plan to train peasants and other local stakeholders on store management in its post inventory, pre and post-disposal arrangements.

The Nigerian government needs to invest more in the skills required to interpret scientific and technical data, and use it to make sound local risk assessment in order to implement regulations. Most users of pesticide in the country have limited perception of the risks and often times have high acceptance of risk due to competing priorities essential for their survival, hence it becomes crucial to increase the level of awareness on sound pesticide management in the interest of public health.

It is against this backdrop, that Sustainable Research and Action for Environmental Development (SRADev Nigeria), an active member of the NGO network (NASPIN), secured this PAN ASP fund to undertake the “Strategic planning for enhancing local pesticide storage capacity to support the Nigerian-ASP prevention component”.

## **2.1 Aim / Objective**

The aim of the workshop is to train/build capacity of local government and community pesticide storekeepers, to effectively store pesticides and manage stock in preventing future obsolete stockpiles towards increased awareness and good management practices among pesticide users/handlers and indigenous population in Nigeria.

Specifically:

- ✓ To promote local and national consciousness and implementation for the International Code of Conduct on the distribution and Use of Pesticides in Nigeria.
- ✓ To empower local stakeholders to understand and interpret the International Code of Conduct so that they can assist farmers, peasants and the society to implement the same.
- ✓ To translate the International Code and Pesticides safe handling/use standard documents into local languages (*Hausa, Yoruba and Ibo*) so that they can be understood by the farmers and extension workers, and store keepers/managers towards promoting safe handling and use of chemicals and pesticides at the grass root.
- ✓ To sensitize women and youths in agricultural work on the dangers of using local and unsafe handling practices.
- ✓ To raise awareness and build capacity of storekeepers and managers particularly in government and private stores on the need to avoid stockpiles and adopt best practices.
- ✓ To transfer field capacity acquired by inventory personnel to store keepers/managers and local government personnel towards institutional strengthening on pesticides management issues at the local policy level.
- ✓ To build capacity of local NGOs in community monitoring methods and establish community based pesticides monitoring and surveillance

## **2.2 Project Justification**

The justification for this project is based on the findings during the inventory activities of the N-ASP. It was discovered that in most of the states, a number of stores were in condition that poses serious health risk to field officers/store keepers and the environment. In many of the stores, pesticides containers were observed leaking and producing obnoxious smell.

Also, the physical condition of the stores was nothing to write home about. There were evidences of leaking roofs and unstable walls. Some of the store keepers adopted burying unwanted pesticide as a preferred method of disposal. It should be noted that proper storage of pesticide reduces hazard of poisoning or other accidents and help to maintain usefulness of

the pesticides. Protecting the labels to remain legible is important because the label do contain information needed to properly and safely use the product and contain emergency information in case of an accident. Proper storage also helps reduce needs for pesticide disposal. Safety for both the workers and environment is the main reason for a well managed pesticide storage facility, hence the need for capacity building for store keepers in the three high risk states (Ondo, Anambra and Kano States) in the country.

### **2.3 Scope of the Project**

1. Identification of the three high risk states on pesticide mismanagement in the country.
2. Strategically develop plans to raise awareness and build capacity of storekeepers and managers particularly in government and private stores on the need to avoid stockpiles and adopt best practices.
3. Transfer field capacity acquired by inventory personnel to store keepers/managers, local government personnel towards institutional strengthening on pesticides management issues at the local policy level.
4. Strategically engage key local government and grassroots stakeholders and peasants effectively to participate in the Nigeria-ASP implementation in post inventory and pre-disposal regime by implementing the International Code of Conduct and its guidelines on pesticide storage and stock management (FAO Code).



## **PART A**

### **Baseline and Scoping Study**

### 3.0 PESTICIDES CONSUMPTION IN NIGERIA

Nigerians use pesticides a lot, the uses ranges from agriculture, veterinary/ Public health to household pest control. According to a recent Nigerian-ASP survey report on consumption, it is difficult to have an authentic figure of pesticide consumed in Nigeria because most users buy from the open market and not from ADPs/ Ministries of Agricultures. According to Crop Life Nigeria, import figures for agro-chemicals for 2007 were 35,079 metric tons.

Neither the Federal government nor the State government is directly involved in the importation of pesticides. Once imported, sales of the pesticides are either institutional (to specific plantations, NARIs, IITA, etc) or in the Open Market, Open Market sales have more volume than Institutional sales. The pattern of sales also indicates that herbicides dominate in southern Nigeria while insecticides dominate in northern Nigeria.

It was established that there are many inlet along Nigeria border lines through which these pesticides get to the country illegally and unfortunately the government agencies in charge of border patrols are inefficient in their duty and lack proper records.

In Nigeria, there are currently about 124 registered crop protection chemicals officially sanctioned by NAFDAC and its Directorate of Registration responsible for the registration of all chemicals regulated by law.

The table below shows annually pesticide consumption, and these pesticides are mainly Pyrethroids, Organophosphates and Carbamates. There is a heavy presence of stocks in the proposed study areas.

**Table 1: Annual Pesticide Usage in study Area Groups in Nigeria**

Geopolitical Zones	States	Duration of storage (months)	Annual Consumption	Duration of stock (Years)	Disposal methods
North Central	Niger FCT	3-5	30,000	2-3	burying in deep holes
		2-3	15,000	1-2	
North West	Kaduna Zamfara	5-7	30,000	1-3	Same
		3-4	50,000	1-2	
North East	Borno Taraba	4-5	35,000	2-4	Same
		3-5	30,000	1-2	
South West	Ondo	2-4	20,000	1-2	Same

	Lagos	2-3	10, 000	2-3	
South- South	Edo	3-4	20, 000	1-2	Same
	Rivers	2-4	15, 000	1-2	
South East	Imo	3-5	10, 000	2-3	Same
	Ebonyi	3-4	10, 000	2-3	
Relevant Institutions	NRCRI	2-3	10, 000	2-4	Same
	NIHORT	2-4	15,000	2-3	
	IITA	1-2	15, 000	1-3	
	IAR	2-3	20, 000	5-10	

Source: N-ASP Survey on Pesticide consumption (2009)

#### 4.0 PESTICIDES STORAGE IN NIGERIA

Most pesticide companies store their pesticides under controlled temperature and relative humidity. The vendors/traders however store them in their shops under normal tropical conditions. Pesticides are often seen being hawked in markets or streets openly in most cities in Nigeria.

- ✚ The average shelf-life of pesticide from the companies is 2-3 years.
- ✚ Crop Life Nigeria admitted that environmental conditions like temperature and relative humidity of the storage area affect their products.
- ✚ To take care of the effect of environmental factors, Crop Life Nigeria affirms that their products are stored in controlled temperature and relative humidity stores.
- ✚ Crop Life Nigeria reported that there is no stock pile of pesticide, because all their products were usually exhausted within the validity period, however a study reveals that many of retailers do have stocks that have exceeded the manufacturers expiring dates.

In Nigeria, pesticides are sold in the open under the sun and rain by hawkers. Most of the traders/vendors store pesticides in unventilated shops. Most Government organizations in Nigeria use the same shop for selling pesticides and seeds. Most of the pesticide companies package their products in various sizes of containers ranging from *250mls, 500mls, 1 litre, 5 litres, 4g sachets, 10g sachets, 1 kg sachets, etc.*

#### 5.0 Pesticide Institutional and Regulatory Framework

Officially, the importation, distribution, sale and use of pesticides are governed by regulations put in place by NAFDAC, and drawn up to comply with the FAO International Code of Conduct on the Distribution and Use of Pesticides. However, the reality on ground is that the regulations are hardly enforced. Consequently, just about anybody can bring in any quantity of any type of pesticide regardless of whether or not it is banned.

The Federal Environmental Protection Agency (FEPA), now the Federal Ministry of Environment (FME), created by Decree 58 of 1988, is assigned the responsibility to establish and prescribe national guidelines, criteria and standards for air and water quality, monitor and control hazardous substances, supervises and enforces compliance. The Federal Ministry of Environment established the “National Chemicals and Hazardous Waste Management Committee” (NCHWMC) charged with the overall mandate of developing Integrated National Action Plans for the sound management of hazardous chemicals and wastes in Nigeria.

These committees had been involved in the following activities:

- ✚ Preparation of national inventory of control actions to ban or severely restrict pesticides and other chemicals having health and environmental implications
- ✚ Preparing Recommendations on national control actions on toxic substances under legislative control in international trade
- ✚ Development of effective mechanism for pesticide registration and regulation of use and disposal
- ✚ Development of collaborative strategies for effective national chemical tracking system and
- ✚ Development of an appropriate legislative infrastructure for sound national chemical management.

The National Agency for Food and Drug Administration and Control (NAFDAC), established by Decree No. 15 of 1993 as amended is a Parastatal of the Federal Ministry of Health, with the mandate to regulate and control quality standards for Foods, Drugs, Cosmetics, Medical Devices, Chemicals, Detergents and packaged water imported, manufactured locally and distributed in Nigeria. Regulate and control the importation, exportation, manufacture,

advertisement, distribution, sale and use of drugs, cosmetics, medical devices, bottled water and chemicals. Recently, the NAFDAC proceeded to add on a pesticide regulatory component to its activities. NAFDAC probably justifies that action by the fact that pesticides are classified as Drugs in the Nigerian chemicals legislation.

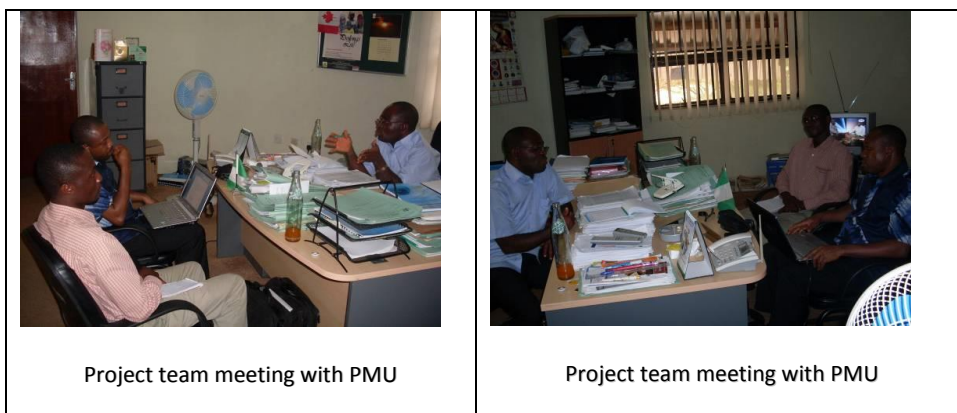
National Pesticides Committee had developed pesticides legislation and control scheme and the government promulgated legislation on this matter, but the legislation was poorly enforced largely because of the conflict described above.

## **6.0 Consultations**

### **6.1 Nigeria ASP-PMU**

The project coordinator/team made several visits to consult with the PMU in addition to phone conversations. But specifically, the team visited the Nigeria-ASP PMU office on the 22<sup>nd</sup> of January 2010 had a meeting with Mr. Theodore Nwaokwe (Project Coordinator, Nigeria ASP) to provide him with full details on the project and had very fruitful discussions on its strategic implementation plan, how to identify the high risk state using the PMU's PSMS and Safeguard report. We paid a second visit to the PMU on 3<sup>rd</sup> of February and 12<sup>th</sup> March to study more of the report generated on PSMS. The PMU assured SRADev Nigeria its ultimate support (in kind) towards the success of the project. He pledged making the PSMS and other very relevant reports available at anytime required by the team. The meeting agreed on the criteria to be used to the selection of three high risk states as:

- Number of stores per state
- Quality, physical state and quantity of the stocks
- State of management on site
- Extent of training, awareness programmes so far conducted per state
- Evidences/findings from the PSMS



## 6.2 Ministry of Agriculture and Water Resources

The team also consulted with various staff of the Ministry of Agriculture on several occasions. The first meeting with the Federal Department of Pest Control of the Federal Ministry of Agriculture and Water Resources (Mr. Duruji) in Abuja on the 4<sup>th</sup> of February focused likewise on the same subject matter. Subsequently, Dr. D.A. Okolo (Crop Protection) was identified as the contact person with regards to involvement in the project implementation.

The Federal Department of Pest Control of the Ministry revealed that the Federal Government has a central store in Kaduna State where all procurement of pesticides is channeled to for onward distribution to other states of the federation. All field offices of the Department of Pest Control rely on supply solely from the central store in Kaduna.

These field offices request for pesticide as the need arises in their catchment areas. However, the state Governments do procure their pesticide needs directly from manufacturers and their own chain of distribution via the state ministries of Agriculture. The departmental statistics shows that hardly could any of the field offices have excess stock of pesticide for more than a few days. This practice of requesting as the need arises makes it flexible for the field offices to operate without a substantive store keeper. It could be said that there are no materials to store most of the time at the field offices, however, during site visitation there are evident stockpiles in some of the field offices. In the field offices of the Federal Department of Pest Control there is mainly one or two personnel in charge of pesticide distribution and these officers are often

times not designated as store keepers, they just function in that capacity for ease of distribution.

Some twelve (12) states in the Northern part of the country have been tagged as FRONTLINE states because they are always the first set of states to be invaded by crop pest and diseases and hence, they receive priority attention from Kaduna central store. These states are; *Kano, Adamawa, Borno, Yobe, Jigawa, Katsina, Sokoto, Zamfara, Kebbi, Taraba, Niger and Kwara*. For instance, Kano has stores in the capital city as well as in all the Local Government Areas of the state. The stores are being coordinated by the state Ministry of Agriculture.

Below are identified store/field officers and their contact details in charge of the state field offices:

**Table 2: LIST OF FIELD OFFICERS OF THE FEDERAL DEPARTMENT OF PEST CONTROL**

NO	STATE	NAME	Phone No
1	SOKOTO (KEBBI & ZAMFARA)	JUDE OMORIEGBE	08034243607 07082337273
2	KANO (JIGAWA)	MALLAM ABBA GANA YAMANI	08037755433 08023575085
3	BORNO (YOBE)	GARUBA ABDULHAI	08036301361
4	BAUCHI (GOMBE)	JOHNSON DZAZU	07037714479
5	ADAMAWA (TARABA)	TUNJI BAKARE KANMODI	08032421728
6	PLATEAU (NAZARAWA)	KAYODE OYINLOYE	08069536467
7	ABIA (IMO)	CECILIA ONYEIKE	08063473318
8	ENUGU (EBONYI)	STELLA ONACHUKWU	07030513217
9	NIGER	SOLOMON AWUTO	08033536266
10	RIVERS	UDO NWAKWO	08035468506
11	ONDO	DIPO KOLADE	08033703716
12	FCT	HAULAT WINTOLA	08035886625
13	KATSINA	FEMI OLAYINKA	08035040485

Source: Federal Ministry of Agriculture, Abuja

### 6.3 Industry (Crop Life Nigeria)

Another stakeholder identified is Crop Life Nigeria. Consultation (still ongoing) was made to Crop Life Nigeria office in Ibadan on March 17, 2010. The President (Mr. Sam Kunu) gave a highlight of related capacity building effort of the industry in Nigeria in recent past. Below are a summary of trainings carried out and future plans in this direction;

- ✚ Training of agro-chemicals dealers in all the 36 states of the federation on “Safe and effective use of agro-chemicals” in 2003.

- ✚ With USAID Markets in training agro-chemicals dealers and sprayers in the rice value chain in Enugu, Ebonyi, Kwara, Kano states in 2008, 2009.
- ✚ 2010 Certification training for agro-chemicals dealers in collaboration with NAFDAC and International Centre for Soil Fertility Management (IFDC) and National Food Reserve Agency. Activity is held in six selected states representing the 6 geo-political zones of Nigeria.
- ✚ Training of value chain of stored grains (merchants, farmers, extension workers, women in agriculture) and fish business in Kano, Gombe, Cross River, Adamawa states since 2009 to date.
- ✚ Plan to train in 2010, Rice and cassava value chain workers specifically sprayers and dealers on Pesticides management. Also plan to continue the certification training exercise through refreshers courses as a continuous exercise.

About 20 companies are involved in importing pesticides but individuals are not precluded from importing pesticides. Among the major importers (CropLife Nigeria members) are:

- ✚ The Candel Company Ltd, Lagos
- ✚ SARO Agrochemicals, Lagos
- ✚ Dizengoff Nigeria Ltd, Lagos
- ✚ Afcott Nigeria Ltd, Lagos
- ✚ African Agro Commodities Ltd, Kano
- ✚ Syngeta, Lagos
- ✚ Jubaili Agrochemicals, Lagos
- ✚ Fitsco Nigeria Ltd, Ibadan
- ✚ Insis Crop Care, Ibadan etc.

Crop Life Nigeria agreed to collaborate in the proposed capacity building programme for store keepers, farmers, trade unions on pesticides stock management. Two key members of Crop Life Nigeria are collaborating with the project in the development of the training modules and delivery of the modules by two of its certified expert trainers. Efforts are also on through Crop Life Nigeria in identifying local private storekeepers to participate in the training.



Generally, the proposed capacity building for storekeepers though long overdue but is very timely based on the above training analysis. It is obvious that this sector of the pesticides management has been neglected largely and have not in any way benefited from any tailored training in this direction either from the government or the industry, which obviously and sufficiently justifies the project.

## **7.0 Inventory/PSMS Information**

The project team severally reviewed inventory/PSMS information from the made available by PMU. The team had identified all storekeepers with detail contact to be included in the training programme ([Annex A](#)). A total of 18, 10 and 31 storekeepers for Ondo, Anambra and Kano respectively have been identified from the public stores. This would be marked up with additional 20 private storekeepers to be selected. General conditions of selected stores as can be observed are summarized as:

### **7.1 Ondo State Public Stores**

Stores are mostly constructed with Aluminium roofing sheets. Gaps between walls and roofs are very wide and would allow the entrance of rain into stores. Rain water can also enter through doors as the floors are mostly the same level with the ground outside. Surroundings are bushy. Pesticides are stored together with other equipment and seeds. Seeds are littered on the store floors. PPEs are not used by store keepers or by other handlers. They handle stocks with their bare hands. Poor stacking of stock is also a common practice in the State. There are also evidence of women employed in treating and sieving treated seeds unprotected.

### **7.2 Anambra State Public Stores**

Stores are constructed with bricks and properly roofed. Some pesticides are stored outside the stores in the open air. Some of the containers are corroded with possible leakages. Store keepers do not use protective kits.

### **7.3 Kano State Public Stores**

Generally the facilities housing the stores are constructed with bricks and so are durable. However the housekeeping and maintenance are poor. There are many leaking roofs and walls with holes. The majority of stores have damp and cracked walls and floors.

There are very few shelves for pesticides. Most of the pesticides are kept on the floor together with seeds and other contaminated materials. Protective kits are not used by store keepers. The stacking of pesticides in the stores is poor and would discourage daily or weekly check of stock hence increasing the number of unusable products.

## **8.0 STATUS OF COMMUNICATION STRATEGY FOR PESTICIDES: MANAGEMENT AT NATIONAL LEVEL**

There is yet no record of any existing communication strategy for pesticides management by the regulators (Ministry of Agriculture, Environment, Health, NAFDAC) until the emergence of the ASP programme. The Nigeria-ASP communication strategy which was fully developed in 2008 is focused on using a good communication channel mix to effectively raise awareness on the Nigerian ASP among stakeholders with a view to achieving rapid behavior change. The targeted stakeholders are; Policy/Law Makers, NGO's, CBO's, Farmers, Youths/School Children, Women groups, Media and the general public.

The publicity materials used so far include the following:

- a) Development and printing of various IEC materials i.e. posters, handbills
- b) Production of communications materials for schools i.e. Exercise Books
- c) Production of ASP Newsletters & Brochures
- d) Production of calendars and seasonal greeting cards.

Other efforts to sensitize the populace have been in area of media relations: production and placement of newspapers adverts, syndicated feature stories in the print media, special enlightenment Radio programmes i.e. Radio Link/Voice of Nigeria (VON) programme and Special TV enlightenment programme i.e. Kaakaki on African Independent Television (AIT) and Tuesday Night Live on Nigeria Television Authority (NTA). Very few limited cases of these programmes have been transmitted and are not sustained due to funding. News paper advert was equally

places in some selected papers which include; (a) *Guardian (South West)* (b) *Daily Trust (North)* (c) *The Sun (South East)*.

In the bid to further create awareness on pesticide management related issues, the Nigeria-ASP organized some public enlightenment/capacity building events which include the following:

- a) *Workshop for Farmers/Manufacturers & Extension Workers etc*
- b) *Workshop for NGOs/Women/Youths etc*
- c) *Obudu Retreat for Policy/Lawmakers*
- d) *Review of Awareness-Raising Strategy*
- e) *Participation in Communications Training*
- f) *Development of Communications Strategy*
- g) *Advocacy/Sensitisation visits to some States nationwide*
- h) *Production of TV Documentary*
- i) *Communications Task Team Meetings*
- j) *Training of PMU/ Task Team members on Awareness Processes.*

Although, the Nigeria-ASP has developed several IEC materials and has organized awareness raising workshops across the country, however, these efforts have not gone to the grassroots adequately and are not sustained. NGOs need to be strategically positioned to disseminate this information. For example, in many states including two of our identified high risk states (Ondo and Anambra) little or nothing has been done in sensitizing the local communities on the danger of pesticide mismanagement, training of local farmers and store keepers. Besides, training of storekeepers was not scheduled into the communication strategy of the Nigeria ASP.

In the few states where the N-ASP has carried out awareness, most of the activities took place in the cities whereas the rural areas where farm settlements are situated are not adequately penetrated. Hence, we can categorically state that in level of awareness creation in the country remain low.

## **9.0 Monitoring Status**

### **9.1 Community Monitoring and Surveillance Group**

Small-scale farmers are a key target audience, as they are likely to own small quantities of stocks of obsolete pesticides, which are however of high risk due to the common conditions of storage of pesticides generally and the low level of awareness of the risks that obsolete pesticides pose (in terms of health, environment, and development of pest resistance for example). However, the amounts, types and conditions of storage of these stocks are almost entirely un-quantified at present. CSOs/NGOs have a comparative advantage in identifying these stocks as they will be able to access information that may be withheld from government investigators. Workers and owners of commercial farms, cooperative unions, and stockists (storekeepers) are also important stakeholders to include in this monitoring survey of non-government owned stocks.

The project implementation team shall identify local NGOs, Trade unions, regulatory authority (NAFDAC), Small scale farmers, Ministry of Agriculture, etc to be included in the community monitoring and surveillance group by visiting them at first and then a focus group meeting will hold among all of them with the focus on monitoring trading and storage practices among traders and distributors, or households for storage practices only.

The project aims at building capacity for Pesticide store keepers/field officers in these states on pesticides storage and stock control, with the overall goal of safeguarding the health of the people and the environment.

From extensive consultation, the activity would be held in each state before the capacity building programme then followed by the monitoring survey component. It is planned that contrary to the work plan schedule, due to the peculiar nature of the locations, distance between states and for flow in activities, and these sequential events would be held per state in that other. In other words, all the activities would be held and concluded in one state before the PIT project train move to another state.

Against this background, project would kick off in Ondo state, Anambra state and Kano state. Other components of the project relating to monitoring surveys would be accomplished thereafter before the termination of project in 30<sup>th</sup> August 2010.

### 10.1 Site Selection

Three high risk states were identified using the resources made available by the N-ASP. One each was selected from the West, East and North (see figure 1 below).

*Figure 1: Map of Nigeria showing the three project high risk states*



In the West, **Ondo State** was selected based on its high numbers of stores associated with poor management, high pesticides consumption rate, proximity to importation channels, extensive agricultural (small scale/large scale farming) activities, with other considerations. In the East, **Anambra State** which has few public stores, but large private stores due to its industrial and commercial hub nature where a lot of packaging, repackaging and adulteration take place, besides the stores are poorly managed and its high pesticides usage, absence of any previous awareness activity, poor store/stocks condition, absence of any regulatory/monitoring activity.

The third state was selected in the Northern part, **Kano state** based on very high pesticides usage, large numbers of stores/stocks, poor store condition, poor awareness among stakeholders, absence of any regulatory/monitoring activity, among others.

## **10.2 Identification of Key Project Partners**

The project involved identification of both public and private store keepers within the states. These people will be mobilized from all the Local Government of the State and they will be exposed to a training workshop on best management practices for pesticide store keeping. Key resource person drawn from government, Crop Life Nigeria, PMU, Inventory personnel, NGOs identified to delivered the training modules.

## **10.3 Training Modules**

In collaboration with Crop Life Nigeria and Federal Ministry of Agriculture, appropriate training modules for store keepers have been finalized in line with FAO standard. Four modules have been developed; its summary is as presented in Annex E.

## **10.4 Awareness Raising**

The Project will focus on raising high level of awareness and knowledge about pesticide handling and use among farmers, women, youths, NGOs and the general public in the chosen states. This will be achieved by organizing a statewide sensitization programme to this effect. For each of the audiences, communication plans/strategies are being planned based on the deficiencies mentioned from the review in subsequent sections above. Specific communication materials are being finalized, FAO Code summarized and undergoing translation, PMU's posters, fliers being reviewed and specifically upgraded for dissemination.

## **10.5 Monitoring Survey**

The project will collaborate with identified NGOs per state in order to carry out the monitoring survey of pesticides among the stakeholders on a continuous basis based on the monitoring methods and tools to be developed.

A lead NGO will be selected on the basis of its competence and experience in chemicals management and in conducting risk assessments related to hazardous chemicals in general and of pesticides in particular. The Lead NGO should preferably be registered with NASPIN.

The project implementation team (PIT) will provide to the selected local NGO with the necessary monitoring guideline materials and operational tools to facilitate their work. The work is expected to be completed within 2 months within the framework of an MOU to be signed. Three lead NGOs have been identified in Anambra (Women and Children Development Initiative – *WACDI*), Ondo (Centre for Everlasting Environment, Women Education and Development - *CEEWED*) and Kano (Community Empowerment Initiatives – *COMEIN*) states.

The **baseline and Scoping study component** of the “strategic plan for enhancing local pesticides storage capacity to support the Nigerian ASP prevention project” ongoing is an essential phase of the project which would largely contribute to the overall project success.

#### **11.0 Outcome of the Baseline/Scoping Study**

The study has helped to further streamlined and simplified the actual implementation of the project. It has assisted in a better understanding of the peculiar problems/issues of the project sites towards formulating an appropriate intervention approach. The study also assisted in ensuring that all implementation input; resources, personnel, are put in place and confirmed before implementation of the project.

**Part B:**  
**Project Implementation**



### 12.1 DAY 1 ONDO: Sensitization Workshop

The workshop at Akure, Ondo State (May 12, 2010) started at about 10.00a.m with a welcome address session by the Executive Director, SRADev Nigeria, Mr. Leslie Adogame. He welcomed the participants and prepared them for the workshop. Mrs. Akinyanmi Bola, Director Pollution Control; Ondo State Ministry of Environment who represented Mr. Adepiti, Hon. Commissioner for Environment, Ondo State, gave the opening speech. She emphasized the need for the attendees to fully participate in the workshop. A speech was also delivered by Mr. Theodore Nwaokwe (Project Coordinator, Nigeria ASP) on the Nigeria African Stockpiles Programme (N-ASP) and Pesticides Management in Nigeria: *The journey so far*. Chief Julius Akinnigbagbe, the Honorable Commissioner for Agriculture highlighted on the Local Pesticides Storage and Stock Management – *Implication for Public Health*. Finally, **The Role of NGO's in Pesticide Management** was facilitated by the Program Director, SRADev Nigeria in person of Mr. Eugene Itua. Goodwill Messages were delivered by Mr. Sam Kunu, President, Crop life Nigeria (CLN); Mr. Davies Ajana, the Executive Director, CEEWED (local NGO), Akure and Pharmacist Wole Ojo of the National Agency for Food and Drug Administration and Control (NAFDAC) Akure.

The workshop ended with an interactive session where Questions/Discussions/Comments were taken. A total of 130 participants were recorded. (See Annex G – List of Participants).

### 12.2 DAY 2 ONDO: Training

The training was held at the Ministry of Agriculture Conference Hall (ADP) Akure, Ondo state on May 13, 2010. The training began at 11:30 a.m. with Mr. Adogame's introductory remarks. He declared the focus of the training workshop as participants were eager for the training. It was facilitated by Mr. Gbenga Aiyeku of Crop Life Nigeria. A video clip aimed at sensitizing the '**use and effects of chemical pesticides**' was also rolled. This was followed by the technical session where papers were delivered. This ended with an interactive session with Questions/Discussions/Comments by the participants. A total number of 60 storekeepers were trained.

### **12.3 DAY 3 ONDO: Inauguration of Local Monitoring Group**

The Inauguration of local monitoring group was held at the Ministry of the Environment, Akure on May 14, 2010 at 9:15 a.m. with the participation of representatives from the Ministry of Agriculture, Ministry of the Environment, NAFDAC, local NGO, Women Farmers' Association; stressing the need for the inauguration as the objectives of the Monitoring Group were well understood by the group.

### **12.4 DAY 1 ANAMBRA: Sensitization Workshop**

The Workshop took place at the Suncity Exclusive Hotel, Awka, Anambra State (June 9, 2010) at about 10.30 a.m. with an opening session by the Executive Director, SRADev Nigeria, Mr. Leslie Adogame. He welcomed the participants and prepared them for the workshop. Mrs. Catherine Obikwelu, Chairperson, Anambra State ASP Steering Committee, Task Team Leader on Communication; who represented the Project Coordinator gave the opening remark by emphasizing the need to fully participate in the workshop. Documentary on the **Nigeria African Stockpiles Programme (N-ASP)** and **Pesticides Management in Nigeria: the journey so far**, was rolled and narrated by Mrs. Catherine Obukwelu. This attracted so much attention by the participants, while Chief Godson Ezenagu, Honorable Commissioner for Agriculture facilitated **Local Pesticide Storage and Stock Management** - Implication on public health. **The Role of NGO's in Pesticide Management** was facilitated by the Programme Director, SRADev Nigeria, Mr. Eugene Itua.

The workshop ended with an interactive session where Questions/Discussions/Comments were made. **Goodwill messages** were delivered by various stakeholders. A total of 127 participants were recorded. (See Annex G – List of Participants).

### **12.5 DAY 2 ANAMBRA: Training**

The training was held at the Ministry of Agriculture Conference Hall, Awka, Anambra State on June 10, 2010. It started at 11:30 a.m. with Mr. Adogame's opening remark, highlighting the focus of the workshop. The training was facilitated by Mr. Emmanuel Aneke of Crop Life Nigeria and Mr. Stephen Olusanya of SRADev Nigeria. A video clip aimed at sensitizing the 'use and

**effects of chemical pesticides'** was rolled. This was followed by the technical session where papers were delivered. It ended with an interactive session with Questions/Discussions/Comments by the participants. A total of 51 storekeepers were trained.

### **12.6 DAY 3 ANAMBRA: Inauguration of Local Monitoring Group**

The Inauguration of Local Monitoring Group was held at the Suncity Exclusive Hotel, Awka, on June 11, 2010 at 9:15 a.m. with Mrs. Catherine Obukwelu's (Director, State Ministry of Environment) opening remarks. Purpose of the meeting was introduced by the Mr. Leslie Adogame. He updated on the project aim, goals, activities and output which was the main reason for the inauguration. The participants were 15 in number.

### **12.7 DAY 1 KANO: Sensitization Workshop**

The workshop took place on September 14, 2010 at Imam Wali Conference Centre, Kano at 10.00 a.m. The Executive Director, SRADev Nigeria, Mr. Leslie Adogame gave the welcome address. He welcomed the participants and prepared them for the workshop. The Permanent Secretary; Kano State Ministry of Environment who represented Alhaji Garuba Yusuf, Honorable Commissioner for Environment, Kano State, gave the opening speech. She emphasized the need to fully participate in the workshop. A speech was also delivered by Mr. Theodore Nwaokwe (Project Coordinator, Nigeria ASP) on the Nigeria African Stockpiles Programme (N-ASP) and Pesticides Management in Nigeria: *the journey so far*. Alhaji Mohammed Umar Kura, Director General, ... who represent the Honorable Commissioner for Agriculture, Alhaji Musa Suleiman Shalolo; gave a speech on the Local Pesticides Storage and Stock Management – *Implication for Public Health*. Finally, The Role of NGO's in Pesticide Management was facilitated by the Programme Director, SRADev Nigeria, Mr. Eugene Itua.

The workshop was rounded off with Questions/Discussions/Comments session, while Goodwill messages were delivered by representatives of all the stakeholders present. A total of 147 participants attended. (See Annex G – List of Participants).

## **12.8 DAY 2 KANO: Training**

The training was held at the Kano State Agriculture and Rural Development Agency (KNARDA) Conference Hall, Kano on September 15, 2010 at 10:30 a.m. with Mr. Leslie Adogame's opening remark. He declared the focus and the objectives of the workshop. The training was facilitated by Mr. Emmanuel Aneke of Crop Life Nigeria. A video clip aimed at sensitizing the 'use and effects of chemical pesticides' was rolled, followed by the technical session where papers were delivered. It ended with an interactive session with Questions/Discussions/Comments by the participants. A total of 50 storekeepers were trained.

## **12.9 DAY 3 KANO: Inauguration of Local Monitoring Group**

The Inauguration was held at the Conference Hall of the Ministry of the Environment, Audu Bako Secretariat, Kano State on September 16, 2010 at 10:00am with an opening prayer and the introduction of participants by Mr. Saminu Yakasai. The opening remark was given by Alhaji Dayyabu Zubairu Gano. Purpose of the meeting was introduced by the Executive Director, SRADev Nigeria, Mr. Leslie Adogame. He updated on the project aim, goals, activities and output which was the main reason for the inauguration. The group was inaugurated by the Permanent Secretary, Ministry of the Environment. The group consisted of all the key stakeholders totaling 23 in number.

## **13.0 Project Team**

### **13.1 ONDO STATE**

The team comprised Sustainable Research and Action for Environmental Development (SRADev Nigeria), Nigeria-ASP and Crop Life Nigeria comprising:

- |                           |                                    |
|---------------------------|------------------------------------|
| 1) Mr. Ane Leslie Adogame | Executive Director, SRADev Nigeria |
| 2) Mr. Eugene Itua        | Programme Director, SRADev Nigeria |
| 3) Mrs. Maryam Olayeni    | Programme Officer, SRADev Nigeria  |
| 4) Miss Chineze Egbuche   | Project Officer, SRADev Nigeria    |
| 5) Mr. Sam Kunu           | President, Crop life Nigeria       |
| 6) Miss Nike Adelaja      | Corp Member, SRADev Nigeria        |

- |                        |                                    |
|------------------------|------------------------------------|
| 7) Mr Gbenga Aiyeku    | Crop Life Nigeria (master trainer) |
| 8) Mr.Theodore Nwaokwe | Project Coordinator, Nigeria ASP   |

### **13.2 ANAMBRA STATE**

The team consisted of:

- |                           |                                    |
|---------------------------|------------------------------------|
| 1) Mr. Ane Leslie Adogame | Executive Director, SRADev Nigeria |
| 2) Mr. Eugene Itua        | Programme Director, SRADev Nigeria |
| 3) Mr. Stephen Olusanya   | Corps Member, SRADev Nigeria       |
| 4) Miss. Egbuche Chineze  | Project Officer, SRADev Nigeria    |
| 5) Mr. Emmanuel Aneke     | Crop Life Nigeria                  |

### **13.3 KANO TEAM**

The team comprised:

- |                           |                                    |
|---------------------------|------------------------------------|
| 1) Mr. Ane Leslie Adogame | Executive Director, SRADev Nigeria |
| 2) Mr. Stephen Olusanya   | Corp Member, SRADev Nigeria        |
| 3) Miss. Egbuche Chineze  | Project Officer, SRADev Nigeria    |
| 4) Mr. Emmanuel Aneke     | Crop Life Nigeria                  |

## **14.0 Consultations/Visits**

### **14.1 ONDO**

Sensitization visits commenced with the visitation to Akure, Ondo State as the General Manager, Agricultural Input Supply Agency (AISA), Mr. I.B. Ogunsuyi was met at the entry point. SRADev Nigeria team also met with the Commissioner for Agriculture, Chief Julius Akinnigbagbe, the State Zonal Director, NAFDAC (Mr. P.A. Agbejimi) and the Director, Pollution Control, Ondo State Ministry of Environment, Mrs. Akinyanmi. The date for the workshop was conveyed as they promised to equally sensitize the key stakeholders, especially the storekeepers in respect of the workshop.

### **14.2 ANAMBRA**

Sensitization visits commenced with the visitation to Awka, Anambra State. Mrs. Catherine

Obukwelu, HOD, Environmental Health, Ministry of Environment, who was also the chairperson Anambra State ASP Steering Committee as the entry point. The SRADev Nigeria team also met with the Commissioner, Ministry of Agriculture, Chief G.C. Ezenagu, who in turn introduced the team to the Permanent Secretary for further discussion. The date for the workshop was conveyed as they promised to equally sensitize the community, especially the interest groups in respect of the workshop.

### **14.3 KANO**

#### **Consultations/Visits**

A two day pre-event consultative visit was carried out on September 4 and 5, 2010. The purpose of the visit was to brief the stakeholders fully on unfolding events, to access the facilities and also to confirm their collaboration. The Project Manager was received by Mr. Aliyu Abdulkadir (the local organizing contact).

First point of call was at the Ministry of Agriculture and Natural Resources. The representative of the Ministry (Suleiman Abba) confirmed the readiness of the Ministry to support the project and a confirmed date was agreed. A request was made by the project manager, requesting for provision for accommodation and venue for the day 2 of the event, which was promised.

The team then proceeded to the Ministry of Environment where they met with the HOD Pollution Control, Alhaji Dayyabu Zubairu Gano, who led the team to the Permanent Secretary of the Ministry. The meeting was held and the project manager briefed on the project expectation and the role to be played by the ministry cutting across the mobilization of the state stake holder and also provision for the venue for the day one event. The Permanent Secretary on behalf of the Ministry agreed to support the event within the available resources of the Ministry.

The team also visited Kano State Agricultural and Rural Development Authority (KNARDA), and met with the Managing Director, Mohammad Umar Kura, who pledged his total support and also confirm his readiness to assist in any way before and after the project. At the end of it

letters of invitation were distributed to all the stakeholders through Mr. Aliyu, who promised to follow up on them.

## **15.0 Content of Presentations**

### **DAY 1**

- Nigeria African Stockpiles Programme (N-ASP) and Pesticides Management in Nigeria: the journey so far.
- Local Pesticide Storage and Stock Management-Implication on public health
- The Role of NGO's in Pesticide Management
- Goodwill messages

### **DAY 2**

- Pesticides stores and Storage of Pesticides
- Pesticide shelf life, stock planning and recording system.
- Local transport of pesticides, spills, leaks, decontamination and disposal of empty containers.
- Major Emergencies and personal protective Equipment (PPEs).
- 10 Rules of pesticides management.

## **16.0 Programme Outcome/Evaluation**

- Increased awareness on chemicals and its health effects.
- Increased knowledge and skills on chemical handling.
- Increased community and media attention on harmful effect of re-use of chemical containers.
- Increased attention on the danger of re-use of chemical containers.
- Generated the needed and desired attention and road map towards Stockholm Convention importance.

## **17.0 Conclusion/Recommendation**

The event was a great success as it met its objectives. It is therefore recommended for sustenance purpose, reaching more than the three agricultural states. It should be

canvassed nationwide at periodic times to reach a larger population. Likewise, the awareness programme should also involve more groups, that is, more stakeholders and other interest groups.



# ANNEXES

## Annex A:

### Summary of Site Information from PSMS/Inventory Information

#### ONDO STATE

1.	<p>Name of Store: AISA ODE-IRELE</p> <ul style="list-style-type: none"> <li>• Contact Person: Adejugbagbe. Simeon F.</li> <li>• Address: AISA HQ, Alagbaka, Akure</li> <li>• Email: None</li> <li>• Mobile: 08034731040</li> <li>• Store Keeper: Olowo Abiodun</li> <li>• Address: Ode-Irele Farm Service Centre</li> <li>• Mobile:08059795121</li> </ul>	<p>List of Pesticides:</p> <p>Karate, Atrafit Super, Actara, Apron Star, Carbofits, Uproot, Select, Termex, Atraz, Avesthrin</p>	<p>Store Condition:</p> <p style="text-align: center;">3</p>
2.	<p>Name of Store: AISA OKITIPUPA FARM SERVICE CENTRE</p> <ul style="list-style-type: none"> <li>• Contact Person: Adejugbagbe. Simeon F.</li> <li>• Address:AISA behind High court, Akure</li> <li>• Email:None</li> <li>• Mobile:08034731040</li> <li>• Store Keeper: Akinduro Bosede</li> <li>• Address: Okitipupa town</li> <li>• Mobile:07031518762</li> </ul>	<p>List of Pesticides:</p> <p>Funguran, Actara, Sniper, Karate, Fitsextra, Cyperfits, Ridomite Plus, Select, Avesthrin</p>	<p>Store Condition:</p> <p style="text-align: center;">3</p>
3.	<p>Name of Store: AISA OKA,ONDO TOWN</p> <ul style="list-style-type: none"> <li>• Contact Person: Adejugbagbe. Simeon F.</li> <li>• Address: AISA behind High court, Akure</li> <li>• Email: None</li> <li>• Mobile:08034731040</li> <li>• Store Keeper: Omosule Issac O.</li> <li>• Address: Oka Quarters, Ondo</li> <li>• Mobile: 08060613751</li> </ul>	<p>List of Pesticides:</p> <p>Fitsextra, Spiper, Actara, Karate, Funguran, Cyberfits, Carbofits, Uden, Stump, Select, Primextra</p>	<p>Store Condition:</p> <p style="text-align: center;">3</p>
4.	<p>Name of Store: AISA IKARE-AKOKO</p> <ul style="list-style-type: none"> <li>• Contact Person: Adejugbagbe. Simeon F.</li> <li>• Address: AISA behind High court, Akure</li> <li>• Email:</li> <li>• Mobile: 08034731040</li> <li>• Store Keeper: Awodogan Emmanuel O.</li> <li>• ADDRESS:AISA Ikare-Akoko</li> <li>• Mobile: 08065169433</li> </ul>	<p>List of Pesticides:</p> <p>Actara, Sniper, Basudin, Funguran, Uden, Ridomite Plus, Avesthrin, Sarosate, select, Atraz</p>	<p>Store Condition:</p> <p style="text-align: center;">4</p>
5.	<p>Name of Store: AISA OKE-AGBE</p> <ul style="list-style-type: none"> <li>• Contact Person: Adejugbagbe. Simeon F.</li> <li>• Address: AISA behind High court, Akure</li> <li>• Email:</li> <li>• Mobile: 08034731040</li> <li>• Store Keeper: Taiwo Ariyo</li> <li>• Address: AISA OKE-AGBE</li> <li>• Mobile: 08064631683</li> </ul>	<p>List of Pesticides:</p> <p>Karate Actara Cyperfits Weed Crusher</p>	<p>Store Condition:</p> <p style="text-align: center;">4</p>
6.	<p>Name of Store: AISA IJU-ITAGBOLU</p> <ul style="list-style-type: none"> <li>• Contact Person: Adejugbagbe. Simeon F.</li> </ul>	<p>List of Pesticides:</p> <p>Actara Sniper</p>	<p>Store Condition:</p>

	<ul style="list-style-type: none"> <li>Address: AISA behind High court, Akure</li> <li>Email:</li> <li>Mobile: 08034731040</li> <li>Store Keeper: Dayo Ayeni</li> <li>Address: Iju, Akure North LGA</li> <li>Mobile: 08037289140</li> </ul>	<p>Uden Cyperfits Ridomite plu Select Avesthrin Atraz</p>	3
7.	<p>Name of Store: Farm Service Centre Isarun</p> <ul style="list-style-type: none"> <li>Contact Person: Adejugbagbe. Simeon F.</li> <li>Address: AISA behind High court, Akure</li> <li>Email:</li> <li>Mobile: 08034731040</li> <li>Store Keeper: Ibiyemi A. B</li> <li>Address: AISA store Isarun</li> <li>Mobile: 08051263476</li> </ul>	<p>List of Pesticides: Sniper, Funguran, Ridomite Plus, Actara, Avesthrin, Uden, Sarosate, Atraz</p>	<p>Store Condition:  3</p>
8.	<p>Name of Store: AISA CENTRAL DEPOT, AKURE</p> <ul style="list-style-type: none"> <li>Contact Person: Adejugbagbe. Simeon F.</li> <li>Address: AISA behind High court, Akure</li> <li>Email: None</li> <li>Mobile: 08034731040</li> <li>Store Keeper: Bello . C. O.</li> <li>Address: Central Depot, Old Secretariat, Oke-Eda</li> <li>Mobile: 08066279137</li> </ul>	<p>List of Pesticides: Uden, Delvap, sniper, Karate, Cyperfits, Apron Star, Ridomil Gold Plus, Funguran-OH, Actara, Codal Cold, Fusilade, Fitsonil, Actellic, Cracker, Touchdown, Fitsextra, Nordox,Champ, Monocrot, Procarb, Fitcosate, Scud, Sarosate, Select, Clearweed, Propan, Weedoff, Atraz, Atrfits super, Profit, Termex, Avesthrin, Weedcrucher</p>	<p>Store Condition:  4</p>
9.	<p>Name of Store: AISA ORE FARM SERVICE CENTRE</p> <ul style="list-style-type: none"> <li>Contact Person: Adejugbagbe. Simeon F.</li> <li>Address: High court, Akure</li> <li>Email: None</li> <li>Mobile: 08034731040</li> <li>Store Keeper: Ogidan Kehinde</li> <li>Address: AISA Ore Farm Service Centre</li> <li>Mobile: 08034396862</li> </ul>	<p>List of Pesticides: Carbofits Actara Fusilade Atraz Select</p>	<p>Store Condition:  3</p>
10	<p>Name of Store: BOLORUNDURO FARM SERVICE CENTRE</p> <ul style="list-style-type: none"> <li>Contact Person: Adejugbagbe. Simeon F.</li> <li>Address: High court, Akure</li> <li>Email: None</li> <li>Mobile: 08034731040</li> <li>Store Keeper: Oyeleye Benson /<b>Fadayomi Omolabake</b></li> <li>Address: Bolorunduro Farm Service Centre</li> <li>Mobile: 07034763431</li> </ul>	<p>List of Pesticides: Carbofits, Cyperfits, Funguron-OH, Primextra, Actara, Fitsextra, Uden Sarosate, Avesthrin</p>	<p>Store Condition:  3</p>
11	<p>Name of Store: ILE-OLUJI FARM SERVICE CENTRE</p> <ul style="list-style-type: none"> <li>Contact Person: Adejugbagbe. Simeon F.</li> <li>Address: High court, Akure</li> <li>Email: None</li> <li>Mobile:08034731040</li> <li>Store Keeper: Oyedele Modupe</li> <li>Address: Ile-Oluji Farm Service Centre</li> <li>Mobile: 07039176492</li> </ul>	<p>List of Pesticides: Ridomil Plus, Karate, Actara, Snipe, Carbofits, Cyperfits, Weedoff</p>	<p>Store Condition:  3</p>
12	<p>Name of Store: ADP SEED PROCESSING STORE, AKURE (3</p>	<p>List of Pesticides: Sniper</p>	<p>Store Condition:</p>

	<p>STORES)</p> <ul style="list-style-type: none"> <li>Contact Person: Adejugbagbe. Simeon F.</li> <li>Address: High court, Akure</li> <li>Email: None</li> <li>Mobile: 08034731040</li> <li>Store Keeper: F. E. Adejuyite</li> <li>Address: ADP Seed Processing Store, Akure</li> <li>Mobile: 08063071647</li> </ul>	Dress Force	3
13	<p>Name of Store: AISA IFON FARM SERVICE CENTRE</p> <ul style="list-style-type: none"> <li>Contact Person: Adejugbagbe. Simeon F.</li> <li>Address: High court, Akure</li> <li>Email: None</li> <li>Mobile: 08034731040</li> <li>Store Keeper: Olatunji M.O</li> <li>Address: Ifon Farm Service Centre</li> <li>Mobile: 08038211871</li> </ul>	<p>List of Pesticides:</p> <p>Actara Termex Sniper</p>	<p>Store Condition:</p> <p>3</p>
14	<p>Name of Store: AISA FARM SERVICE CENTRE, OWENA</p> <ul style="list-style-type: none"> <li>Contact Person: Adejugbagbe. Simeon F.</li> <li>Address: High court, Akure</li> <li>Email: None</li> <li>Mobile: 08034731040</li> <li>Store Keeper: Oladunjoye Ayo. P.</li> <li>Address: Aisa Farm Service Centre, Owena</li> <li>Mobile: 0807683409</li> </ul>	<p>List of Pesticides:</p> <p>Select, Sniper, Primextra, Actara, Uden, Ridomil Plus, Roundup, Fitsextra, Cracker, Avesthrin, Clearweed,, Carbofits, Sarosate, Termex, Karate, Funguron-OH</p>	<p>Store Condition:</p> <p>2</p>
15	<p>Name of Store: AISA FARM SERVICE CENTRE ISUA-AKOKO</p> <ul style="list-style-type: none"> <li>Contact Person: Adejugbagbe. Simeon F.</li> <li>Address: High court, Akure</li> <li>Email: None</li> <li>Mobile: 08034731040</li> <li>Store Keeper: Banji Suberu</li> <li>Address: AISA Farm Service Centre Isua-Akoko</li> <li>Mobile: 08060108401</li> </ul>	<p>List of Pesticides:</p> <p>Fitscosate, Cyperfits, Weedcrusher, Sniper, Clearweed, Uden, Actara, Weedoff</p>	<p>Store Condition:</p> <p>3</p>
16	<p>Name of Store: AISA FARM SERVICE CENTRE OWO</p> <ul style="list-style-type: none"> <li>Contact Person: Adejugbagbe. Simeon F.</li> <li>Address: High court, Akure</li> <li>Email: None</li> <li>Mobile: 08034731040</li> <li>Store Keeper: <b>Yemisi Adewole</b></li> <li>Address: AISA Farm Service Centre Owo</li> <li>Mobile: 08069052647</li> </ul>	<p>List of Pesticides:</p> <p>Carbofits, Actara, Funguron- OH, Cyperfits, Ridomil Plus, Sarosate, Select, Avesthrin, Cracker</p>	<p>Store Condition:</p> <p>3</p>
17	<p>Name of Store: AISA Farm SERVICE CENTRE IGBOTU</p> <ul style="list-style-type: none"> <li>Contact Person: Adejugbagbe. Simeon F.</li> <li>Address: High court, Akure</li> <li>Email: None</li> <li>Mobile: 08034731040</li> <li>Store Keeper: Maria Ojo</li> <li>Address: AISA Farm Service Centre Igbotu</li> <li>Mobile: 0807576283</li> </ul>	<p>List of Pesticides:</p> <p>Termex Sniper Carbofits Profit Atraz Avesthrin</p>	<p>Store Condition:</p> <p>3</p>

## ANAMBRA STATE

1.	<p>Name of Store: NNEWI Agric Department &amp; Environmental health Unit stores</p> <ul style="list-style-type: none"> <li>• Contact Person: Jacincta N. Okafor</li> <li>• Address: Agric department, High Court/Agric Rd, Nnewi</li> <li>• Email: None</li> <li>• Mobile:08066779437</li> <li>• Store Keeper: Stephens C. Igwebike</li> <li>• Address: Same</li> <li>• Mobile:08035650436</li> </ul>	<p>List of Pesticides:</p> <p>Salvos Terminator Wonder Konavap Emofarm Dust Worm Force Uppercot Wipe Out</p>	<p>Store Condition:</p> <p>3</p>
2.	<p>Name of Store: ADP ZONAL STORE AWKA</p> <ul style="list-style-type: none"> <li>• Contact Person: MOZIE J. O.</li> <li>• Address: ADP Awka Zonal Office, Old Govt station, Amawbia</li> <li>• Email: None</li> <li>• Mobile: 08056749560</li> <li>• Store Keeper: Mrs Akpagu. C.</li> <li>• Address: Same</li> <li>• Mobile: 08039315848</li> </ul>	<p>List of Pesticides:</p> <p>Peni DHS Coopervet Pen&amp; Strep Abbeycain Abbetropine Agrar</p>	<p>Store Condition:</p> <p>3</p>
3.	<p>Name of Store: Environmental Health Office, Fegge</p> <ul style="list-style-type: none"> <li>• Contact Person: S. N. Nwokike</li> <li>• Address: Zik Avenue, Fegge, Onitsha</li> <li>• Email: None</li> <li>• Mobile: 08034093651</li> <li>• Store Keeper: Same</li> <li>• Address: Same</li> <li>• Mobile: Same</li> </ul>	<p>List of Pesticides:</p> <p>Only Contaminated equipment</p>	<p>Store Condition:</p> <p>4</p>
4.	<p>Name of Store: MIN. AGRIC ADP HQ COMPLEX, AWKA</p> <ul style="list-style-type: none"> <li>• Contact Person: J. A. Nkematu</li> <li>• Address: Min. Agric (ASADEP) Complex, Emeka Ilo str.</li> <li>• Email: None</li> <li>• Mobile:08056651197</li> <li>• Store Keeper: Rev. Okey Nworie</li> <li>• Address: Same</li> <li>• Mobile: 08035626591</li> </ul>	<p>List of Pesticides:</p> <p>Protex Karate Delzine Premais Propan</p>	<p>Store Condition:</p> <p>3</p>
5.	<p>Name of Store: Min. Envnt, Amudo, Awka</p> <ul style="list-style-type: none"> <li>• Contact Person: Odiegwu A. U.</li> <li>• Address:min. Of Envnt, Works Rd, Amudo, Awka</li> <li>• Email: aodiegwuau@yahoo.com</li> <li>• Mobile:08033712862</li> <li>• Store Keeper: same</li> <li>• Address: same</li> <li>• Mobile: same</li> </ul>	<p>List of Pesticides:</p> <p>Cotchem Delvap Bretemite Vitavap Monocrown Dymovan Cyperdicot</p>	<p>Store Condition:</p> <p>3</p>

		Alvan BASF	
6.	<p>Name of Store: ADP Zonal HQ Onitsha</p> <ul style="list-style-type: none"> <li>Contact Person: Afocha Alex</li> <li>Address: ADP Zonal HQ Onitsha</li> <li>Email: None</li> <li>Mobile:08063486088</li> <li>Store Keeper: Obiakor</li> <li>Address: Same</li> <li>Mobile: None</li> </ul>	<p>List of Pesticides: Only contaminated equipment</p>	<p>Store Condition: 2</p>

## KANO STATE

1.	<p>Name of Store: KNARDA STORE,KAKARA I, II &amp;III</p> <ul style="list-style-type: none"> <li>Contact Person: Alhaji Mohammed Kura</li> <li>Address: Knarda Hqtrs,Hadejia Road, Kano</li> <li>Email: None</li> <li>Mobile: None</li> <li>Store Keeper: Inuwa Musa</li> <li>Address: Same</li> </ul>	<p>List of Pesticides: Zap Lasso Orizo Plus</p>	<p>Store Condition: 3</p>
2.	<p>Name of Store: KANO State Fed. Agric Pest Control Store(Nig. Plant Quarantine Complex)</p> <ul style="list-style-type: none"> <li>Contact Person: Abbagana Yamani</li> <li>Address: Fed. Secretariat, Kano</li> <li>Mobile: 08023575085</li> <li>Email: <a href="mailto:abbayamani@hotmail.com">abbayamani@hotmail.com</a></li> <li>Store Keeper: None</li> </ul>	<p>List of Pesticides: Fenthion Pestoff</p>	<p>Store Condition: 1</p>
3.	<p>Name of Store: KANO AGRIC. SERVICES STORE</p> <ul style="list-style-type: none"> <li>Contact Person: Alh. Abba Datti</li> <li>Address: Kano State ,Ministry of Agriculture, Bida Rd, Off Post Office Road</li> <li>Email: None</li> <li>Mobile: None</li> <li>Store Keeper: Mallam Umar Abdulahi</li> <li>Mobile: 08081350261</li> <li>Address: Farm Centre, Kano</li> </ul>	<p>List of Pesticides: Delthrin,DelminForte, Karate,Demar, Bronopol, Agropest, Detia-Gas Ex-B, Ultracid,Unden, Dimethoate,Protex, Delvap super, Apron Plus, Formalin</p>	<p>Store Condition: 3</p>
4.	<p>Name of Store: KADAWA SEED PRO.COMPLEX STORE</p> <ul style="list-style-type: none"> <li>Contact Person: Abdul Inuwa</li> <li>Address: Knarda Km 9,Hadejia Road,p.M.B.3130,kano</li> <li>Email: None</li> <li>Mobile: 08029539082</li> <li>Store Keeper: Same</li> <li>Address: Same</li> </ul>	<p>List of Pesticides: Paraforce Butaforce Orizo Round up</p>	<p>Store Condition: 4</p>
5.	<p>Name of Store: KNARDA,RANO-KANO</p> <ul style="list-style-type: none"> <li>Contact Person: <b>Muhammad A Nahannu</b></li> <li>08065283020</li> <li>Address: COURT YARD,GYADI GYADI,KANO</li> </ul>	<p>List of Pesticides: Bullet</p>	<p>Store Condition: 2</p>

	<ul style="list-style-type: none"> <li>Email: None</li> <li>Mobile: 08065283020</li> <li>Store Keeper: <b>Same</b></li> <li>Address: Same</li> </ul>		
6.	<p>Name of Store: KNARDA STORE,KURA</p> <ul style="list-style-type: none"> <li>Contact Person: Mohammed Abubakar Usman</li> <li>Address: Kano-Kaduna Dual-carriage way, Kura Town.</li> <li>Email: None</li> <li>Mobile: 08036825837</li> <li>Store Keeper: Idris Dahiru</li> <li>mobile: 08034802097</li> <li>Address: Kano-Kaduna Dual-Carriage Way, Kura Town</li> </ul>	<p>List of Pesticides:</p> <p>Multichlor Cyperdiforce Uppercot</p>	<p>Store Condition:</p> <p>Appears OK but no protective kits used by store keepers.</p>
7.	<p>Name of Store: KASCO(KNARDA) STORE,BICHI</p> <ul style="list-style-type: none"> <li>Contact Person: Alhaji Muhammed Kura</li> <li>Address: KNARDA, HADEJIA RD, KANO</li> <li>Email: None</li> <li>Mobile:</li> <li>Store Keeper: Mallam Garba Aminu</li> <li>Address: Knarda Store,bichi</li> <li>mobile: 08065566586</li> </ul>	<p>List of Pesticides:</p> <p>Cyperdiforce Butaforce</p>	<p>Store Condition:</p> <p>2</p>
8.	<p>Name of Store: VECTOR CONTROL UNIT</p> <ul style="list-style-type: none"> <li>Contact Person: Shehu Musa</li> <li>Address: Sheik Gida general hospital.</li> <li>Email:</li> <li>Mobile: 08035501111</li> <li>Store Keeper: Mohammed Sheka</li> <li>Address: Same</li> <li>Mobile: 08024692386</li> </ul>	<p>List of Pesticides:</p> <p>Gufan Alvan Doom DD Force</p>	<p>Store Condition:</p> <p>2</p>
9.	<p>Name of Store: FARM CENTRE, INPUT DISTRIBUTION STORE</p> <ul style="list-style-type: none"> <li>Contact Person: Mallam Muhammed Umar Kura</li> <li>Address: KNARDA HQ Km 9, Hadeija Rd, Kano</li> <li>Email: None</li> <li>Mobile: None</li> <li>Store Keeper: Mallam Sani Ali Gadanga</li> <li>Address: Knarda, Zone 3, Gaya, Kano</li> <li>Mobile:08052069901</li> </ul>	<p>List of Pesticides:</p> <p>The store is only for distribution. Pesticides are held only for 3 months.</p>	<p>Store Condition:</p> <p>3</p>
10	<p>Name of Store: KNARDA (KASCO) KWA</p> <ul style="list-style-type: none"> <li>Contact Person: Mohammed Ilu Jogana</li> <li>Address: KNARDA Kwa store, Katsina-Bichi RD, Kwa</li> <li>Email: None</li> <li>Mobile: 08065574898</li> <li>Store Keeper: Hamisu Garba</li> <li>Address: KNARDA Kwa store, Katsina-Bichi RD, Kwa</li> <li>Mobile: 08065565714</li> </ul>	<p>List of Pesticides:</p> <p>Atraforce Uppercot Butaforce Cyperdiforce Lasso</p>	<p>Store Condition:</p> <p>3</p>
11	<p>Name of Store: KASCO FARM CENTRE</p> <ul style="list-style-type: none"> <li>Contact Person: Rilwanu Hussein</li> <li>Address: KASCO House, Maiduguri Rd, Kano</li> <li>Email: None</li> <li>Mobile: 08082766999</li> <li>Store Keeper: Alh. Mohammed Mustapha</li> </ul>	<p>List of Pesticides:</p> <p>Actellic Basamaize Atraforce 2-4 D Amine Primagram</p>	<p>Store Condition:</p> <p>3</p>

	<ul style="list-style-type: none"> <li>Address: KASCO House, Maiduguri Rd, Kano</li> <li>Mobile: 08035515557</li> </ul>	Clepest	
12	<p>Name of Store: KNARDA (KASCO) Gezawa</p> <ul style="list-style-type: none"> <li>Contact Person: Sani Ali Gadanga</li> <li>Address: Zone 3m Gaya, Knarda, Kano</li> <li>Email: None</li> <li>Mobile: 08023202495</li> <li>Store Keeper: Same</li> <li>Address: Same</li> <li>Mobile: Same</li> </ul>	<p>List of Pesticides:</p> <p>Butaforce Cyperdiforce Coopex grain Dust</p>	<p>Store Condition:</p> <p>3</p>
13	<p>Name of Store: KNARDA (KASCO) Karaye</p> <ul style="list-style-type: none"> <li>Contact Person: Alh. Mohammed Ibrahim</li> <li>Address: Knarda Zone 1, Rano, off Zaria Rd, Kano</li> <li>Email: None</li> <li>Mobile: 08029459598</li> <li>Store Keeper: Suleiman Isa</li> <li>Address: Toankawa Quarters, Karaye</li> <li>Mobile: 08069423114</li> </ul>	<p>List of Pesticides:</p> <p>Bullet Uppercot</p>	<p>Store Condition:</p> <p>3</p>
14	<p>Name of Store: KNARDA MANGEMENT UNIT, DANBATT</p> <ul style="list-style-type: none"> <li>Contact Person: Abdulmalik Naaruf</li> <li>Address: KNARDA, Zone 2, Kano-Danbatta- Daura Rd, Danbatta</li> <li>Email: None</li> <li>Mobile: 08066023636</li> <li>Store Keeper: Nasiru Suleiman</li> <li>Address: Same</li> <li>Mobile: 08062772568</li> </ul>	<p>List of Pesticides:</p> <p>Uppercot Cyperdiforce</p>	<p>Store Condition:</p> <p>2</p>
15	<p>Name of Store: KASCO, TUDUN WADA</p> <ul style="list-style-type: none"> <li>Contact Person: Shehu Mohammed</li> <li>Address: KNARDA T/WADA Area Office LGA, T/WADA Kano State</li> <li>Email: None</li> <li>Mobile: 08036354035</li> <li>Store Keeper: Hamisu Musa</li> <li>Address: Same</li> <li>Mobile: 08089169141</li> </ul>	<p>List of Pesticides:</p> <p>Uppercot</p>	<p>Store Condition:</p> <p>3</p>
16	<p>Name of Store: KNARDA (KASCO) RUMINGADO</p> <ul style="list-style-type: none"> <li>Contact Person: Ibrahim Garba</li> <li>Address: Gwarzo Rd, Rumingado</li> <li>Email: None</li> <li>Mobile: 08035960538</li> <li>Store Keeper: Sani Bashir</li> <li>Address: Gwarzo Rd, Rumingado</li> <li>Mobile: 08065461347</li> </ul>	<p>List of Pesticides:</p> <p>Butaforce Butastar Uppercot</p>	<p>Store Condition:</p> <p>3</p>
17	<p>Name of Store: KNARDA, GAYA</p> <ul style="list-style-type: none"> <li>Contact Person: Musa Ibrahim</li> <li>Address: Gaya Town</li> <li>Email: None</li> <li>Mobile: 08032815454</li> <li>Store Keeper: Same</li> <li>Address: Same</li> <li>Mobile: Same</li> </ul>	<p>List of Pesticides:</p> <p>Cyperdiforce Bullet Butaforce</p>	<p>Store Condition:</p> <p>3</p>



18	Name of Store: KNARDA WUDIL <ul style="list-style-type: none"> <li>• Contact Person: Nasiru A. Garko</li> <li>• Address: Garko Town, Garko LGA</li> <li>• Email: None</li> <li>• Mobile: 08036508261</li> <li>• Store Keeper: Same</li> <li>• Address:</li> <li>• Mobile:</li> </ul>	List of Pesticides: <ul style="list-style-type: none"> <li>Bullet</li> <li>Uppercot</li> <li>Lasso</li> <li>Cyperdiforce</li> <li>Atraz</li> <li>Butastar</li> <li>Butaforce</li> </ul>	Store Condition:  2
19	Name of Store: KNARDA TAKAI <ul style="list-style-type: none"> <li>• Contact Person: Idris Shitu Panda</li> <li>• Address: Takai</li> <li>• Email: None</li> <li>• Mobile: 08036652089</li> <li>• Store Keeper: Same</li> <li>• Address: Same</li> <li>• Mobile: Same</li> </ul>	List of Pesticides: <ul style="list-style-type: none"> <li>Butaforce</li> <li>Bullet</li> </ul>	Store Condition:  2

**Key: Code to Store Condition:**

- 1= no store keeper, no protective kits, no defined store (pesticides kept in the open).
- 2 = store keeper, no protective kits, defined store but with possibility of leakages.
- 3 = store keeper, no protective kits, defined store, waterproof.
- 4 = with a store keeper, protective kits, defined store, waterproof.

## Annex B:

### Press Release



## SUSTAINABLE RESEARCH AND ACTION FOR ENVIRONMENTAL DEVELOPMENT (SRADev Nigeria)

18, Olorunlogbon Street, Anthony Village, Lagos

Tel: +234-1-8138062, 08033301305

[sradevnigeria@yahoo.com](mailto:sradevnigeria@yahoo.com)

[www.sradev.org](http://www.sradev.org)

### PRESS RELEASE

**SRADev Nigeria** (a foremost member of Nigeria ASP Implementation Network - NASPIN), is organizing a 3-day Workshop on Awareness raising, Capacity Building/Training of Pesticides Storekeepers and Community monitoring to effectively store pesticides and manage stocks to prevent future obsolete stockpiles towards increased awareness and good management practices among pesticide users and handlers and indigenous population in Nigeria.

The Africa Stockpiles Programme aims to reduce the risks of hazardous obsolete pesticides, and to improve pesticide management and prevent accumulation of such stockpiles in the future. PAN UK and PAN Africa is supporting SRADev Nigeria in community projects that contribute to the Africa Stockpiles Programme, with funding from the UK Department for International Development (DFID). The "PAN ASP DFID Fund" objective is to fund small-scale NGO on community projects in participating ASP countries which contribute to the national ASP programme and its objectives.

Sustainable Research and Action for Environmental Development (SRADev Nigeria) project for Nigeria is cutting across "**Awareness raising and communication**" and "**Prevention of Obsolete Pesticides**" and **community monitoring**. This programme first component which kicks off on 12-14<sup>th</sup> May 2010, will involve awareness raising workshops in Ondo state **Akure (Ondo state), Awka (Anambra state) and Kano (Kano state)**. To this effect, various sectors/groups cutting across grassroot *storekeepers/managers, farmers, fishermen, housewives, agricultural extension workers, chemical product marketers, Government (Min. of Agric, Environment, Health-NAFDAC, Women & Youth associations, students etc* are expected to be in attendance.

We recognize that the pesticides storekeepers are not fully informed and trained on how best to store and handle pesticides. Therefore, the second component of the event require that about 90 government and private

pesticides storekeepers will be trained by accredited international experts from **CropLife International**, 30 from each state, namely: *Ondo, Anambra and Kano States*. Selected NGOs in each of these states are also to be trained in community monitoring of pesticides storage and management.

The 3-day event is aimed at developing community members understanding of safe chemical use, management of pesticides; transferring knowledge and sensitizing participants on important current chemical safety issues at the international and national levels. It is important to note that this workshop is hinged on the fact that grass-root community people need to fully understand chemical safety issues and the danger chemicals and particularly pesticides mishandling pose to human health, particularly as they are most vulnerable to chemical poisoning (*reproductive dysfunction; metabolic changes; deformities and birth defects; tumors and cancers; behavioural changes; abnormally functioning thyroids and other hormone system dysfunction; immune suppression; feminization of males and masculinization of females*).

Storekeepers, trade unions, farmers play a key role in handling and managing of pesticides. Thus, they can contribute enormously to the sensitization of the public in the context of the Sound Management of Pesticides in order to reduce risks from obsolete pesticides. It is therefore vital that they themselves fully understand these issues if they are to provide informed, and accurate information to the public.



Ane Leslie Adogame, Fellow *LEAD*

## **Annex C:**

### **News Publications**

#### **ONDO**

- Daily Independent
- The Nation
- The Punch

#### **ANAMBRA**

- Anambra State Broadcasting Service.
- National television authority (NTA).
- National Light

## Annex D: Photographs

### ONDO DAY 1



Registration by participants



Registration by participants



**Mr. Adepiti, Hon. Commissioner for Environment, Ondo State** during his opening remarks



**Mr. Leslie Adogame** during his speech



**Mr. Sam Kunu** delivering a Goodwill message.



A cross-section of participants from Ondo State School of Health

### DAY 2



**Mr. Leslie Adogame** during his opening remark in Ondo State.



**Chief Julius Akinnigbegbe, Ondo State Commissioner for Agric.** during his speech



**Mr Itua Eugene** during the technical session.



A demonstration of well kitted storekeeper.



Training of storekeepers by Mr. Gbenga



Demonstration of a storekeeper properly dressed in his Personal Protective Wear



Presentation of certificates by Mr. Leslie Adogame.



A question/answer/discussion session



A group photograph of the participants.

### DAY 3



A cross-section of the monitoring group during the meeting.



A cross-section of the monitoring group.



Mr. Adogame and the Permanent Secretary during the inauguration of the monitoring group

## ANAMBRA DAY 1



Mr. Adogame during his speech



The President of the Agro-chemical Dealers giving his speech



Mrs. Obukwelu during her speech



A cross-section of participants



A cross-section of participants



A group photograph of the participants

## DAY 2



The workshop commenced with prayer



Perm. Sec., Ministry of Agric. during his opening remark



Mr. Aneke during his remark



A demonstration of PPE usage by one participant



A cross-section of participants



Question/Answer/Discussion session

## DAY 3



Mr. Adogame during his introductory remark



A cross-section of participants.



A cross-section of participants



A cross-section of participants



A cross-section of participants



A cross-section of participants

## DAY 1 KANO



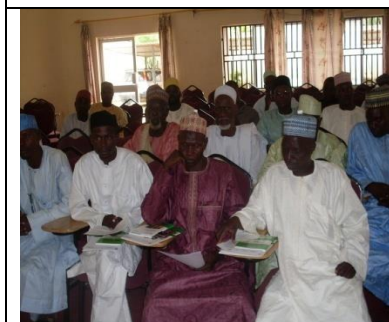
The Workshop's banner



Mr. Leslie Adogame during his welcome speech.



The members of the High table



A cross-section of participants



Alh. Mohammed Umar Kura during his speech



A Group photograph of participants



## DAY 2

		
<p>A cross-section of participants</p>	<p>The Programme banner</p>	<p>Participants during the training session</p>
		
<p>A demonstration of PPE-use by a participant</p>	<p>Presentation of certificate to one of the participants by Mr. Leslie Adogame</p>	<p>A Group photograph</p>

## DAY 3

		
<p>Mr. Leslie Adogame during his speech</p>	<p>Cross section of participants</p>	<p>A cross-section of participants</p>
		
<p>The Local NGO representatives</p>	<p>NAFDAC representative during his speech</p>	<p>The Perm. Sec. during her speech</p>

## **Annex E: Papers/Presentation**

### **PAPER 1: PESTICIDE STORES AND STORAGE OF PESTICIDES**

#### **INTRODUCTION**

Most pesticides are chemicals that are used to kill pests. They may also kill other organisms, and most are poisonous to humans. According to World Health Organization estimation (WHO, 1986), over 1 million people are affected by insecticide poisoning every year and more than 20 000 die as a result of being unaware of the risks involved in handling insecticides.

These pesticides could range from insecticides (to kill insect pests), fungicides (to kill fungal diseases), herbicides (to kill weeds), nematicides (to kill nematodes), rodenticides (to kill rats and mice), acaricides (to kill mites and ticks) and molluscides (to kill snail disease vectors). They Pesticides usually have to be stored before use. Therefore, it is essential to carefully study pesticide storage practice and stock control, especially when extremely hazardous chemicals are involved.

#### **OBJECTIVES**

1. To promote safe handling, storage and use of chemicals and pesticides at grassroots level.
2. To raise awareness and build capacity of storekeepers and managers on the need to avoid stockpiles and adopt best practices.

#### **OVERVIEW OF SUB-TOPICS**

- Pesticide Stores
  - Choice of site
- Storage of pesticides
  - Stacking positions and heights
  - Temporary storage
  - Warning signs for display in stores and on containers

### **PAPER 2: PESTICIDE SHELF LIFE, STOCK PLANNING AND RECORDING SYSTEM**

#### **INTRODUCTION**

The biological efficacy of pesticides gradually decreases with time. The pesticide shelf-life is the period of time that a pesticide can be stored before it deteriorates. Nearly all pesticides have a limited shelf-life. Likewise, Pesticide stores should have a proper system of stock planning and should keep records of stocks received, held and issued. No more pesticide should be ordered than is required or than can be stored in an appropriate way.

Major problems have been caused where there was no system or where the storekeeper had not been trained in, or failed to use, an existing system. Without a record system, orders for excessive quantities of pesticide can be made and the most recently received stock tends to be issued first because older stock is less accessible or the customer wants "fresh" pesticide.

As pesticides have a limited shelf-life, it is essential that only sufficient pesticide is ordered for requirements and that issues are made on a "first in -first out" basis. If such a procedure is not followed, old, out-of-date stocks of pesticide accumulate in deteriorating containers, particularly in dark recesses of the store. Not only do these stocks represent a financial loss to the store-owner (government, marketing board, agricultural cooperative, pesticide wholesaler or retailer or individual farmer), but they also constitute a hazard to personnel working in the store and present an environmental problem when they are eventually disposed of.

It is therefore paramount that the movement of chemicals into and out of the store must be carefully recorded. These would be dealt with in this segment.

### **OBJECTIVES**

1. To promote local and national consciousness and implementation for the International Code of Conduct on the distribution and use of Pesticides in Nigeria.
2. To empower stakeholders to understand, interpret and implement the International Code of Conduct.

### **OVERVIEW OF SUB-TOPICS**

- Pesticide ordering and shelf life
- Stock inspection and shelf life
- Outdated pesticide stocks
- Disposal of outdated and unusable pesticides
- Pesticide stock planning and recording systems

## **PAPER 3: LOCAL TRANSPORT OF PESTICIDES, SPILLS, LEAKS, DECONTAMINATION AND DISPOSAL OF EMPTY CONTAINERS**

### **INTRODUCTION**

Severe cases of poisoning have been caused by the transportation of pesticides with other commodities. Containers of pesticides have leaked during movements, contaminating foodstuffs such as flour and rice packed in sacks and carried in the same truck. People have eaten the food after it has arrived at its destination and have become ill; thousands of deaths have resulted from poisoning in this way.

Pesticides are biologically active materials and potentially hazardous to human health and the environment. Complete decontamination and effective disposal are often very difficult to

achieve. Therefore, one of the most important objectives of good store management is therefore to minimize the occurrence of leaks, spills and outdated stock.

## **OBJECTIVES**

1. To promote safe transportation and handling of pesticides
2. To learn how to handle spills and leaks

## **OVERVIEW OF SUB-TOPICS**

- Local transport of pesticides
- Spills, leaks and disposal of containers and chemicals
- Leaks
- Decontamination
- Disposal

## **PAPER 4: MAJOR EMERGENCIES AND PERSONAL PROTECTIVE EQUIPMENT**

### **INTRODUCTION**

Major emergencies are a far greater risk for pesticide stores than they are elsewhere! Hence, protective clothing is required when handling and transferring pesticides in stores. For instance, in warm, humid tropical climates, wearing additional protective clothing may be uncomfortable. Therefore, only pesticide types and formulations which do not require additional protective clothing should be stored.

## **OBJECTIVES**

1. To inform of the existence and the hazards in the stores.
2. To enlighten on general body protection.
3. To outline general rules for pesticide management.

## **OVERVIEW OF SUB-TOPICS**

- Fire
- Flooding
- Destruction
- Personal safety and Protective clothing
  - General body protection
  - Hand protection
  - Foot wear
  - Eye protection
  - Protection against inhalation
  - Apron covering
- Ten rules for proper pesticide storage and stock management

## **Annex F: Questions/Discussions/Comments**

Many questions and comments came from the participants; all of which received responses from the resource persons. Comments were also made, which include:

- 1. The workshop was well appreciated and we look forward to more of this. More grease to your elbow.*
- 2. We have learnt the differences between herbicides and pesticides and we would handle them appropriately.*
- 3. The NGO should assist in advocating to the government to include hazard allowance alongside the workers' remuneration.*
- 4. We expect more of this, please keep it up.*
- 5. Pesticide handling would improve after this workshop, we assure you.*
- 6. Satisfactory workshop.*

**ANNEX G:**  
**Lists of participants**

**ONDO**

S/No	Name	Organisation	Phone Number	E-mail Address
1	Adeoba E. Adebowale	Min. of environment	08139283598	-
2	Mrs Ibiyemi Aminat.	Min. of Agric input supp	0703953831	-
3	S. Obadale	Ondo state agric dev.pro	08035811558	<a href="mailto:oba@yahoo.com">oba@yahoo.com</a>
4	Obanla.s.	Agric input supply	08039213084	-
5	Ikuloogun.e.o	Agric input supply	08034339186	-
6	Micheal Tuki	Min. of environment	-	-
7	Jimoh Salami	Min.of env.	08032279793	-
8	Adediyite.f.e	Agric dev.project	08063071647	-
9	Sherifat Raji	Ondo st farmer congress	08062143210	-
10	Mr Davies Ajana	CEEWED	08094529926	-
11	Elder Adebo.v.e	Debo davis nig ltd	08035032006	-
12	Mrs Adeoye.f.f	Min.of env	08033608416	<a href="mailto:funkeadeoye@yahoo.com">funkeadeoye@yahoo.com</a>
13	Ogunmodede Francis	Min.of env	0803837784	-
14	Elder Tunde	-	08037115819	-
15	Olasemi Abass	Min.of env	08039496412	-
16	Sule.A.M	ADP Akure	08035806159	-
17	Olufemi.A.A	ADP Akure	08033526373	-
18	Prince Akin Erukilade	AFAN/OSFC	08060178097	-
19	Evang. Oluwande	AFAN/OSFC	08063255780	<a href="mailto:kennyoluwande@yahoo.com">kennyoluwande@yahoo.com</a>
20	Mr.J.O Eweje	AFAN/OSFC	08035743641	-
21	E.O.Ajayi	AFAN/OSFC	08059223577	-
22	Omomukuyo oluwabunmi	School of Health Tech.	07037707995	-
23	Akinwande Ronke P.	School of Health Tech	08066953187	-
24	Babalola Veronica	School of hea. tech Akure	070390090650	-
25	Olorunfemi.M.D	Min .of env	07037840560	-
26	Ogunjobi Olamide	School of hea tech.Akure	07037868258	-

27	Onifonsae Bola	School of health	07038869277	-
28	Semudara Titilayo	School of health	08133572471	-
29	Adetimahim Abimbola	School of health	08066785492	-
30	Jemialu Oluwa Toyin	School of health	08062844962	-
31	Ikuejaghaye Tomisin	School of health	08055461146	-
32	Kayode Taiwo.t.	School of health	08064790205	-
33	Oluwafemi Ajbola	Govt official	08035048435	-
34	Seidu A.S	A.I.S.A Akure	08064046463	-
35	Sam Kunu	Croplife nigeria	08030657754	-
36	Theodore M. Nwaokwe	Nigeria ASP	08037000653	<a href="mailto:Tmnwaokwe@yahoo.com">Tmnwaokwe@yahoo.com</a>
37	Agunsoyi .R.E	Agric input	07036998770	-
38	Akorede.o.	A.I.S.A	07030222568	-
39	Ibufan kehinde	A.I.S.A Akure	08136634132	-
40	Adeyemi Adesina	Teacher	08066236479	-
41	Augustine		07035945148	-
42	Mrs.N.Taiwo	A.I.S.A Akure	08064631683	-
43	Adewoye.N.A.	A.I.S.A Akure	08034700050	-
44	Abiodun T.M	-	07031151736	-
45	Joke adebayo	Farmer's congress	07063210571	-
46	Samson mofobi	-	08032107994	-
47	Akinniyi oladapo	Dappy foto	08036993740	-
48	Ogadagbe f.o	A.I.S.A	08034731009	-
49	Bello.c.o	A.I.S.A	08066279137	-
50	Oladumoye	A.I.S.A	08076831409	-
51	Oluwole micheal	Pieces ventures	08037658736	-
52	Omotoso olumide	-	08034863727	-
53	Akinkumi f.p	-	08034863727	-
54	Mrs grace akinsete	Agents	08032502401	-
55	Mr dayo ayeni	A.I.S.A	07030118584	-
56	Mr alaba		07036746804	-
57	Olayeni maryam	SRADev Nigeria	08023042794	-
58	Omolade fabiyi		08034016061	-
59	Olonda .f.	Min.of agric	08060864320	-
60	Alabi.f	Min.of natual reso	08030416888	-
61	Awodoan e.o	Agric input supply	08065169433	-
62	Chief adegbade	AFAN Ondo State	08025363231	-
63	Chief adepiti omolobi	Min.of env.	07067166187	-
64	Mr ogunya e.o	Min.of env	08069400336	-
65	Obanoyen y.o	Min.of env	08039400665	-
66	Bose.b.micheal		08063261049	-
67	Obajimi felix	Agrochemical dealer	08062337195	-
68	Driyo s.so	Agric input supply	08039212918	-
69	Elimmowo o.o	Agric input supply	08033752618	-
70	Ojo f.a	Min og health	08067447409	-
71	Ogunsuyi i.b	A.I.S.A	08034700042	-
72	Taiwo b.o	A.I.S.A	08033701584	-
73	Ayodele	A.I.S.A	08033502798	-
74	Adewnimi.o	Women affairs	08063065823	-
75	Sulekateyi	Min.of env	08062408208	-
76	Akinyemi aneyinke	Min.of env	08068731834	-
77	Adebanjo isaac	Min.of env	08075636148	Isaacadey2002@yahoo.co.uk
78	Ogunmola abiodun	Min.of env	08062992196	-
79	Ogundairo akin	A.I.S.A	08073000021	-
80	Adejugbagbe	A.I.S.A	08034731042	-
81	Ezikiel	Min.of env	08039560875	-
82	Pharm wole ojo	NAFDAC	08037061943	-
83	Awolu f.b	A.I.S.A	08139041969	-
84	Olayinka oji		08131502117	-
85	Olatunji daji	Min.of env	07037368710	-
86	Adewale ojo	Education	070393482547	-

87	Falade f.t	Education	08035805207	-
88	Adefolaln abayimi	Hope newspaper	08091894882	-
89	Ayemi abiodun	A.I.S.A	08060727575	-
90	Abiodun awobiyi	A.I.S.A	08035716604	-
91	Olusola ige	Lets farm	08034968675	-
92	Segun abitye	Lets farm	08062339577	-
93	Motoro kemisola	Fiwasaye girl's gram sch	08120813070	-
94	Oluwasuy omonike	School	0813557192	-
95	Adeoye oluwakemisola	School	07066716198	-
96	Gbeje omowuegi	School	07060538326	-
97	Adeosun adejumoke	School	07039482482	-
98	Mrs g.o oluwankayode	School	07069033458	-
99	Olusolusi olubummi	Agric input	07038945781	-
100	Akinyemi lola	Agric input	07067459286	-
101	Akin h.o	Min.of comm dev	08077283225	-
102	Ogunrayi a.o	Min.of env	08067618506	-
103	Malumi ayomikin	CEEWED	08066738864	<a href="mailto:Ayo4songs@yahoo.com">Ayo4songs@yahoo.com</a>
104	Miss fumilayo	CEEWED	08066331671	-
105	Micheal goodluck	OSFC	0706909655	-
106	Oladipo.r.	Women affairs	08028011528	-
107	Adepoju	Women affairs	08062715949	-
108	Liasu	Women affairs	08087520507	-
109	Okeano		08080712478	-
110	Yinka okadoyanbo	Nigerian tribune	08033506541	-
111	Sunday aborisade	The punch	08033312729	-
112	Dayo johnson	Vanguard	08033509763	-
113	Adebisi sol	Women affairs	070331996923	-
114	Fadamumiyi .k.r	Women affairs	08067667899	-
115	Olatya smart	A.I.S.A	07090289028	-
116	Adeniranye busyo	HMB	08067552010	-
117	Ladokun temitope	HMB	08065715707	-
118	Olayide	-	-	-
119	Oyegoke e.e	Social welfare	08037707456	-
120	Okimi b.a	Women affairs	07035117823	-
121	Jlota	Women affairs	08068157812	-
122	Mohammed.t.	Women affairs	08037525366	-
123	Yusuf.t.s	Copper	08067025183	-
124	Jimoh ibrahim	Copper	08033367496	-
125	Adeyemi adebaba		07090791948	-
126	Egbuche chineze	SRADev Nigeria	08032871595	-
127	Kareem eunice	Women affairs	08062505627	-
128	Taiwo olowoke		07066319932	-
129	Bright isaac		08033314634	-
130	Adelaja adenike	m.d.s	08056800104	Adenike2003@yahoo.com

## Day 2

S/No	Name	Organisation	Phone Number	E-mail Address
1	Adeoba .e.Adebowale	Min.of env	08139283598	-
2	Ajayi .e.o	AFAN/OSFC	08059223577	-
3	Chief Adenigbagbe	AFAN/OSFC	08025368231	-
4	Mrs olufunke eunice	Women affairs	08063065823	-
5	Micheal tuki	Min.of env	07030443497	-
6	Alabi jimoh	Min.of natural reso	07035945148	-
7	Sherifat raji	Ondo state farmers congress	08062143210	-
8	Mr j.o.eweje	AFAN/OSFC	08035743641	-
9	Adeduyite folasade	Agric dev project	08063071647	-
10	Bello christiana.o.	Agric input supply	08066379137	-
11	Agustine	Min.of env	07035945148	-
12	Omoroke agustine	Agric input supply	08032380775	-
13	Fumilayo aregbesola	CEEWED	08066331671	-



14	Adeyemi adesina	CEEWED	08066236479	-
15	Emmanuel olamide	AFAN/OSFC	08063255780	-
16	Ogundairo akin	Agric input supply	08073000021	-
17	Obanla segun	Agric input supply	08039213084	-
18	Mrs ibiyemi aminat	Agric input supply	07039538315	-
19	Theodore nwaokwe	Nigeria ASP	08037000653	-
20	Adetoun olufemi	Ondo ADP	08033526373	-
21	Malumi ayo	CEEWED	08066738864	<a href="mailto:Ayo4songs@yahoo.com">Ayo4songs@yahoo.com</a>
22	Fadayomi labake	A.I.S.A	08066738864	-
23	Awodogan olusegun	A.I.S.A	08065169433	-
24	Ogedengbe oluwasamu	A.I.S.A	08034731009	-
25	Oludunjoye paul	A.I.S.A	08076851409	-
26	Oluwale olukayere	ADP	08034777330	-
27	Araba florence	ADP	08062424292	-
28	Suberu bayo	A.I.S.A	08060108401	-
29	Omosule isaac	A.I.S.A	08060613751	-
30	Akindiro bosedede	A.I.S.A	07031518762	-
31	Mrs taiwo ariyo	A.I.S.A	08064631683	-
32	Dayo ayai	A.I.S.A	07030118584	-
33	Ajana davies	CEEWED	08055109551	-
34	Adejogbegbe	A.I.S.A	08034731042	-
35	Faji philips	A.I.S.A	08060864640	-
36	Ogumodede .f.	Min.of env	08038373784	-
37	Seidu saliu	A.I.S.A	08064046463	-
38	Ikuloogun oluwalola	A.I.S.A	08034339186	-
39	Noah adewoye	A.I.S.A	08034700050	-
40	Olatunji ojo	A.I.S.A	08067542226	-
41	Adewale yemesi	A.I.S.A	08038211871	-
42	Adebayo .m.	A.I.S.A	08066625167	-
43	Ale olalantan	A.I.S.A	08069052647	-
44	Eugene itua	MDS	-	-
45	Abila.r	A.I.S.A	08051267476	-
46	Kdwode .d.	A.I.S.A	08037289140	-
47	Kehinde	A.I.S.A	08136634132	-
48	Sule .m.	ADP	08035806150	-
49	Odeusola nike	A.I.S.A	08053103228	-
50	Oyedele modupe	A.I.S.A	07031410492	-
51	Obajimi felix	Agrochemical dealer	08062337195	-
52	Ogidan kehinde	A.I.S.A	08034396862	-
53	Bayode ben	Civil servant	08033620219	-
54	Akinro olagide	Civil servant	08033550179	-
55	Maria ojo	Civil servant	08075768283	-
56	Adeoye.f.	Civil servant	08033608416	-
57	Akinyemi	Civil servant	08068731834	-
58	Adetoyinbo.l.	Civil servant	08038003230	-
59	Fape .c.	Farmers congress	08061313755	-
60	Olowo abiodun	A.I.S.A	-	-

### DAY 3

S/No	Name	Organisation	Phone Number	E-mail Address
1	Adeoye funke.f.	Min.of env	08033608416	funkeadeoye@yahoo.com
2	Funmilayo aregbesola	CEEWED	08066331671	-
3	Oluwande emmanuel	AFAN/OSFC	08063255780	kennyoluwande@yahoo.com
4	Fape.c.o.	Ass of women farm of Nigeria	08061313753	-
5	Ajana davies	CEEWED	08055109551	-
6	Adejogbegbe simon	Min.of agric	08034731042	simfolly@yahoo.com
7	Pharm wole ojo	NAFDAC	08037061943	pharmwoleojo@yahoo.com
8	Obonoyen .o.	Min.of env	08039400665	obonoyenadebayo@yahoo.com

9	Ogunrayi.a.o.	Min.of env	08067618506	jogunnyi@yahoo.com
10	Egbuche chineze	SRADev Nigeria	08032871595	nezzybrown@yahoo.com
11	Olayeni Maryam	SRADev Nigeria	08023042794	marytayo123@yahoo.co.uk
12	Awolu .f.b.	A.I.S.A	08139041969	-
13	Malumi ayo	CEEWED	0806673886	ayo4songs@yahoo.com
14	Sherifat raji	OSFC	08062143210	-
15	Leslie adogame	SRADev Nigeria		

## ANAMBRA

### Day 1

No	Names	Organization	Phone No	E.mail
1	Engr.Ezekiel Dennis	SRDHMO	08033067994	Srdhmo@yahoo.com
2	Dr Josephine Ilokanuwo	Community health and literacy program	08071980173	Chalp_01@yahoo.com
3	Hon. C.k mogbo	Foundation for societal reform and sustainable dev.	08060730296	Pjmogbo@yahoo.com
4	Ibezim chukwunedum	WEIHI	08035169463	
5	Okoye Hope N.	HUMADEP	08036661325	Hopenkiru@yahoo.com
6	Gordon I. Obiad	Community healthcare development project	08034255560	Coheco_obi@yahoo.com
7	Nwoguh Queen	New life support Group	08069562808	Newlife2026@yahoo.com
8	Engr Ndubisi Emma Chiadi	Evergreen Habitat organization	08036324173	Emmachiadl@yahoo.com
9	Ughasoro Innocent	Inngo domestic service	08063264476	Inngodomesticservice@yahoo.com
10	Mrs. Bridget Obi	Children of Farmers Club	08033397660	Nnenne_brig yahoo.com
11	Manni Joyce S.Nnanna	Biodiversity Group	08063597477	Joycemanibassey@yahoo.com
12	Com. Richman Ibeh	National Environmental Health officers Association	08036661069	
13	Sir Polycarp Ilokanuno	Community Health & Lit. Programme	08033887203	Chalp_01@yahoo.com
14	Prince Emma Onyeagba	National Inventory Personnel	08037241226	Emmaonyeagba@yahoo.com
15	Com. A.U. Odiegwu	National Inventory Personnel	08033712862	

16	Nwokenna Adaku .s	Women and Children Development Initiative	07034308573	Wacdiang@yahoo.com
17	Okeugo Ijeoma S.	WACDI	08039348833	Wacdiang@yahoo.com
18	Dr. D.A Okolo	Federal Ministry of Agric. Abuja	08033490507	Dicksonokolo@yahoo.com
19	Okwuosa Chineze	Children of the Farmer's Club	08033397660	
20	Mrs. Ezenum Anthonia	Ministry of Health	08064122020	
21	Odiegwu A.U	Ministry of Environment	08033712862	Aodiegwuau@yahoo.com
22	Ibe R.O	EHOAN	08036661069	Iberoval@yahoo.com
23	Ezeneme M.O	EHOAN	08063238352	Kingdedo4u@yahoo.com
24	Nnakife Christiana	Ogboru L.G.A	08036007938	
25	Nweke Grace	Ministry Science & Technology	08060186001	
26	Okoye Edwin	Idemili North LGA	08037522745	
27	Onu N.T	M.O.A	08076081063	
28	Nnalue U.G	M.O.A	08055989382	
29	Ifeanyichukwu Nwizu	Anambra state college of Agricultural	08036206708	
30	Ikechukwu Anoliet	Agricultural dealer	07037735789	
31	Abadom M.O	Aguata L.G.A	08037740180	
32	E.U Nworah	Ministry Of Environment	08035435784	
33	Ruben A.	Ministry of Environment	08135696902	
32	Uwaifo Osa	Uwaifo Agro	08037268375	
32	Chief Mekoh Nnamdi	AFAN	08037449188	Mekohnnamdi@yahoo.com
33	Ngozika Ughasoro	Inngo Domestic Service	08063764476	
34	Egbuonu J.N	Ministry of Environment	08060110651	
35		Tomac Agro Co. LTD	08033723047	
36		Cele Best Agro LTD	08039517011	
37	Chinedu Izuchukwu	Dumeck Agro Ventures LTD	08033122853	
38	Ezekude Victoria	Awka North L.G.A	08063859674	

39	Ozuah C.O	Dunukofia L.G.A	08069461129	
40	Hon. Micheal Udealor	Health/ Achalla	08036694023	
41	Egwuwuh B.O	Ministry of Environment	08033830686	
42	Ezeoke J.U	Anambra West	08056307068	
43	Iloani C.C	Oyi L.G.A	08050338480	
44	Uzoka I.G	Anambra ADP	08036679473	
45	Egolum Uju	Market Women	08033713535	
46	Eze P.N	Onitsha South	08037423180	
47	Chinwoke Mba	A.B.S Awka	08034215535	
48	Okonkwo C.O	Dunukoga L.G.A	08068937760	
49	Nwafor Godwin .U	Ministry of Information & Culture	08036019843	
50	Adigwe G.I	Awka south L.G.A	08036770822	
51	Amaechi Okafor	Meneo Agro	07030493965	
52	Raymond Oziji	N.Light Awka	08066771250	
53	Aromu C.N	E.H.O Oyi L.G.A	08035089226	albanigeria@yahoo.com
54	Okeke H.N	DPY Director Awka North L.G.A	08064106424	
55	Egwuatu T.E	E.H.O Awka North L.G.A	08037929702	
56	Udogu Ngozi	E.H.O Nnewi North L.G.A	08038952458	
57	Okolo Christiana	E.H.O Nnewi North L.G.A	07062743493	
58	Mbachu I.O		08063379252	
59	Onumah Benedicta	Ihiala L.G.A	08037557707	
60	Okafor Kevin	ANSEPA Onitsha	08069396945	Chidiebubeok@yahoo.com
61	Arachie Augusta	Awka	08062137138	Augustachika@yahoo.com
62	James Unegbu	Ministry of Agric	0805544277	
63	Okoli Eunice	ADP Akwa	08036684686	
64	Ezeobi Emmanuel	ADP Awka	08037332489	
65	Law I. Oduma	Oduma Duma Agro Service.	08063927944	
66	Cheluchi Akpagu	ADP Awka	08039315848	
67	Nnaebue A.N.S	Tobisuna Ven.Nig.Awka	08037745731	
68	Onyemazu Innocent	Ministry of Health	07032498886	
69	O'Martins A.N	Director C.W.O Awka	08035009920	
70	Ike E.C	C.O.A Mgbakwu	08067969959	

71	Imo Issac	Anambra Broadcasting Service	08030972682	lmothompson@yahoo.com
72	Okafor B.C	Ministry of Environment	08039351064	
73	Nwankwo T.O	Ministry of Environment	07036372191	Olytess2000@yahoo.com
74	Ibuzo J.C	Dept. of Ecology/Environment	07069000056	
75	Udensi Amaka	Ministry of Environment	08034144469	
76	Chike Micheal	Oyi L.G.A	07066133397	
77	Egu Christopher	Krisbow Agro co Ltd	08037870549	Krisbonagro@yahoo.co.uk
78	Oduma Charles	C&C Associate	08037121407	
79	Angus Obianka	Obikason Pharmacy Stores Ltd	08033405033	Anby59@yahoo.com
80	Onuesi E.U.A	Environmental Health.Ayamedum L.G.A	08063287630	Isahild2005@yahoo.com
81	Okafor U.E	Orumba South L.G.A	08131514333	
82	Aneke Emmanuel	Crop Life Nig.	08039487287	Aneke4jesus@yahoo.com
83	Engr. Anthony Okoli	President, Agro-chemicals & allied Farm Impute Association.	08035004534	
84	Obianife L.C	Fed. Ministry of Agric	08077835260	
85	Ubah Anthony	Fed. Ministry of Agric	07038467327	
86	Theresa Nwankwo	Gen. Hospital Awka	08068261351	
87	Ezeiru Elizabeth	EH. Anambra East	08036771115	
88	Emeh Gloria	ENV.HOAN	08037403400	
89	Lucy v. Obiora	A/S Environment	08065591246	
90	Barr.Emeka Onuha	Ministry of Information Awka	08037035265	Emekaonuha@yahoo.com
91	Ezeanata C.E	Min. of Environment Awka	08036664687	Chateby2003@yahoo.com
92	Nwafor Theresa N.	HOTRRAG	08035627705	
93	Chukwudi Oduma	C&C Agro. Onitsha	08023219747	
94	Promise Nwankwo	Min. of Agric	08037317334	
95	Ojike Obiageli	Min. of Agric	07090079533	
96	Madubualo Theresa	Min. of Agric	08064623596	

## Day 2

1	Madubualo Theresa	Min. of Agric	08064623596	
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2	Innocent A. Onyemazu	Min. of Health	07032498886	
3	Theresa Omile	Min. of Agric	08064097782	
4	Okoli Eunice	A.D.P	08036684686	
5	Francisca Okoye	Min. of Agric.	08080447037	
6	Egwu Adeline	Min. of Agric	08063049912	
7	Mabel M. Okafor	Min. of Agric	08063263960	
8	Amaechi Okafor	Meneo Agro-chemicals	07030493965	
9	Okonkwo Elizabeth	Min. of Agric	08133290942	
10	Ezekude Victoria	Awka North L.G.A	08063859674	
11	Nworie Juliet	A.D.P Awka	08064447747	
12	F.C Okoye	A.D.P Awka	08075246699	
13	Nweke Grace	Min. of Science & Technology	08060186001	
14	James Unegbu	Min. of Agric	08065544277	
15	Lucy Obiora	Min. of Environment	08065591246	
16	Ngozi Esimoneze	A.D.P Awka	08060984171	
17	Agbodu Nkoli P.	A.D.P Awka	08034507157	
18	Nwankwo C.E	Min. of Agric	08066032723	
19	Okoye Edwin C	Idemili North L.G.A	08037522745	
20	Udensi Amaka E.	Orumba North L.G.A	08034144469	
21	Ada Unobuagha	Min. of Education	08056936222	
22	Chike Micheal	HOD Agric. Oyi L.G.A	07066133397	
23	Obianife Levinus	Fed. Min. of Agric	08077835260	
24	Ubah Anthony	F.D.A	07038467527	
25	Ike Eliseus	C.O.A Mgbakwu	08067969959	
26	Ifeanyichukwu Nwizuchukwu	Anambra State college of Agriculture Mgbakwu	08036206708	
27	Okeugo Ijeoma S.	WACDI	08039348833	Wacdang@yahoo.com
28	Okoye Hope Nkiruka	HUMADEP	08036661325	Hopenkiru@yahoo.com
29	Ezeani Florence (JP)	A.D.P Awka	08064548283	
30	Onumah Benedicta	E.H.O Ihiala	08037557707	
31	Nwafor Theresa	HOTTRAG	08035627705	
32	Ezeogu A.O	Min. of Agric	08036780132	
33	Chukwura Cyril	Min. of Environment	08139239148	
34	Theresa Nwankwo	Min. of Health	08068261351	
35	Ngozika Ughasoro	Inngo Domestic Service	08063764476	
36	Patricia C. Okeke	Min. of Agric	07033731857	
37	Elizabeth Ezeiru	Min. of Environment	08036771115	

38	Obiagwu Jacinta C.	Min. of Agric	08063793529
39	Molokwu Rebecca	FADAMA	08068884748
40	Ezeobi Emmanuel	A.D.P Awka	08037332489
41	Cheluchi Akpogu	A.D.P Awka	08039315848
42	Nnanna James .U	Health Office Ayamelum	08084672490
43	Aghadinunor Daniel	Min. of Environment	07030861480
44	Ositadinma Rose	A.D.P Awka	08082128483
45	Onuikwe Ekene B	Mother's Union, Diocese of Akwa	08057142170
46	Victoria N. Okoye	Min. of Environment	07092613524
47	Mr Aneke Emmanuel	Crop Life Nig.	
48	Mrs Catherine Obukwelu	Min. of Environment	
49	Mr Leslie Adogame	SRADev Nig.	
50	Olusanya Stephen	SRADev Nig.	08057542066
51	Miss Chineze Egbuche	SRADev Nig.	08032871595

### Day 3

1	Engr. Emma C. Mbanusi	Min. of Health	08037633867	
2	Oyibo Alar (Mrs)	Min. of Education	08068423069	
3	Egbuche Chineze	SRADev Nigeria	08032871595	Nezybrown@yahoo.com
4	Prince Emmanuel C. Onyeagba	Pesticide Management Consultant	08037241226	Emmaonyeagba@yahoo.com
5	Okoye Hope Nkiruka	HUMADEP	08036661355	Hopenkiru@yahoo.com
6	Okego Ijeoma S.	WACDI	08039348833	Stephanie.ijeoma@yahoo.com
7	Mrs Tessy Ugo Madu	WACDI	08033643484	Tessymadu@yahoo.com
8	Mr. Emma Okeke	Min. of Agric	08060585825	Emmachuksokeke@yahoo.com
10	Hon.(Engr) Anthony I. Okoli	Agro-chemical and Allied Input Mark Associ	08035004534	Okoliat_2@yahoo.com
11	Dr Josephine Ilokanuno	Community Health and Literacy Programme	08071980173	Josykauno@yahoo.com
12	Sir P.C Ilakanuno	Community Health and Literacy Programme	08033887203	Chalp_01@yahoo.com
13	Aneke Emmanuel	Crop Life Nigeria		Aneke4jesus@yahoo.com
14	Leslie Adogame	SRADev Nigeria	08033301305	
15	Olusanya stephen	SRADev Nigeria	08057542066	Stephenodus@live.com

**KANO DAY 1**

S/No	Name	Organisation	Phone Number	E-mail Address
1	H.B.GARKUWA	Women Gender developers. (WOSEND)	08065057275	
2	F.E.BAIYE	Women Gender developers. (WOGEND)	08037905565	Feliciabaiye@yahoo.com
3	AMHANYUNOSE EHIOSUN AUSTINE	Women Gender developers. (WOGEND)	08029086871, 07030423073	Ehis-vidiano@yahoo.com
4	ABIOYE SAMUEL OYEWUNMI	Women Gender developer. (WOGEND)	07052349730	Samuel 2000@yahoo. Com
5	ABDULNALIK MAARUF	KNARDA KANO	08066023636	-----
6	IDRIS SHITU	KNARDA	08036652089	-----
7	NASIRU SULEIMAN	KNARDA	08062772568	-----
8	AMINU JAFARU	KNARDA	08036094597	-----
9	MOHAMMED	KNARDA	08065574898	-----
10	ADO ABBA	KASED	07041763646	-----
11	NASIRU A.GARKO	KNARDA	08036508261	-----
12	AUWALU MUHD SAAD	S.M.O.ENX.	08028900043, 08036630123	-----
18	MUSA IBRAHIM	KNARDA ZONE III	08032815454	<a href="mailto:Musaibrahim@yahoo.com">Musaibrahim@yahoo.com</a>
19	ORAM FIDELIS NGARI	KNARDA P.MU.	07055564577	<a href="mailto:Oramfidel@yahoo.com">Oramfidel@yahoo.com</a>
20	ABBA ISYAKU ADAMU	NOWAIDA/IFDC	08034327142	<a href="mailto:bbisyaku@yahoo.com">bbisyaku@yahoo.com</a>
21	Abdullahi m.indabawa	KNARDA	08035900377	<a href="mailto:Abdulmi1910@gmail.com">Abdulmi1910@gmail.com</a>
22	Euji Abdullali Muh'd	NOWAIDA/V.P.	08036316224	-----
23	Alh. Ahmedu Slitu	NOWAIDA(	08035699917	-----
24	Alh Shehu Ali	Jubaila Agro Tech	08068921414	<a href="mailto:Alishehu05@yahoo.com">Alishehu05@yahoo.com</a>
25	Aboru Inuwa	KNARDA	07067705566	-----
26	Hamzat	Jubaili Agro-EC	07032273429	<a href="mailto:abubakrevertgreen@yahoo.com">abubakrevertgreen@yahoo.com</a>



	Abubakar			
27	Ahmed Idris	Ministry of Enr.	08036568635	<a href="mailto:aidawaki@gmail.com">aidawaki@gmail.com</a>
28	Ik. Chukuamaka	The Candel Coy Ltd	08033872340	<a href="mailto:Cidchuks@yahoo.com">Cidchuks@yahoo.com</a>
29	Mr Edoh Jonathan	Comfort Agro Chemical, Nig Ltd	08036822948	<a href="mailto:edosonaj@yahoo.com">edosonaj@yahoo.com</a>
30	Mr Peter Osifo	Comfort Agro Chemical, Nig Ltd	07072380860	<a href="mailto:peterosifo@yahoo.com">peterosifo@yahoo.com</a>
31	Ibrahim Nasidi	KASCO	0806688498	-----
32	Sa'idu Adamu Sharfadi	Min of Environment Kano State	08065497387	-----
33	Mrs Phito Joseph	Comfort Agro	08023744763	<a href="mailto:Phito-joe@yahoo.com">Phito-joe@yahoo.com</a>
34	Garba Aminu Bichi	KNARDA	08065566586	-----
35	Mustapha Lawan	KNARDA	08065994209	-----
36	Bello M.Shawowo	KNARDA	08020341445	-----
37	Mohamed S.Zahradden	KNARDA	08027995241	-----
38	Sani Ali Gadanga	KNARDA	08023202495	-----
39	Usman Yusuf	FCAPT	08027144600	-----
40	Bashir Barau	Federal College of Agricultural Produce Technology	07032120006	<a href="mailto:Barhbash2008@yahoo.com">Barhbash2008@yahoo.com</a>
41	Ishaku Bukar	FCAPT	08065279560	-----
42	Musa Sani	FCAPT	08090874366	<a href="mailto:Sani-musa07@yahoo.com">Sani-musa07@yahoo.com</a>
43	Murtala Iliya	FCAPT	07058235855	-----
44	Oloh Martin Enokela	FCAPT	07066445042	<a href="mailto:Enochmartin-5@yahoo.com">Enochmartin-5@yahoo.com</a>
45	Ihyasu Fubairu	FCAPT	08068913730	-----
46	Stephen Kelechi fraise Nwanu	FCAPT	08061286727	<a href="mailto:prayzechii@yahoo.com">prayzechii@yahoo.com</a>
47	Muhammed 'A' Usman	KNARDA	08036825837	-----
48	Bello A. Sarki	NOWAIDA	08060522943	<a href="mailto:bsarki@gmail.com">bsarki@gmail.com</a>
49	Balarabe Muktan	KASCO	08089630257	-----
50	Engr. Mustapha Moh'd	MOENU KANO	08029459350	<a href="mailto:engrmustapha@yahoo.com">engrmustapha@yahoo.com</a>
51	Usman I	Comfort Agro	07064309054	-----

	Abubakar			
52	Saminu Murtala Yakasai	Min of Environment Kano	08034016200	<a href="mailto:saminum@yahoo.com">saminum@yahoo.com</a>
53	Shehu G/ba T/B	Shaba	07039818815	
54	Abdul Magaji	Min of Environment Kano	08091313622	Abdulmagaj@Rocketmail.com
55	Saminu Haruna	FCAPT	08024872614	<a href="mailto:Saminuharuna08@yahoo.in">Saminuharuna08@yahoo.in</a>
56	Wangi James	FCAPT	08133863656	-----
57	Omoniyi Olabisi	FCAPT	08068014646	-----
58	ADAH ROSE	FCAPT	08052709006	-----
59	KHALIL HUSSAINA A	FCAPT	07026407272	-----
60	AHMAD NKJA'ATU MUHD	FCAPT	08060483297	-----
61	BELLO ABDULLAHI	KASAI DA	08036413953	-----
62	ABDULKAMR ALIYU	KNARDA	08036536342	<a href="mailto:Aaliyu23@yahoo.com">Aaliyu23@yahoo.com</a>
63	DANLAMI A. JIBO	SCHOOL OF HYGIENE KANO	08065426871	-----
64	HASSAN ADAMU	SCHOOL OF HYGIENE KANO	08032112576	<a href="mailto:Hassanadamu2010@yahoo.com">Hassanadamu2010@yahoo.com</a>
65	NASIRU LAWAN	SCHOOL OF HYGIENE KANO	08035850350	<a href="mailto:lawannasiru@yahoo.com">lawannasiru@yahoo.com</a>
66	FAROUR SHARIFF DANWALI	MIN FOR L.G	08036381273	-----
67	UMA-MUSA MADOBI	V.ASHF	08038828850	-----
68	DAHMU TAMBAL BICHI	KNARDA	08034984827	-----
69	SULEMAN AHMAD	WASCO FANTA	07028285448	-----
70	YAKUBU ZAKAWYA'U	KNARDA	08069287299	-----
71	ENGR.SALE UMA SHARHI	MIN OF ENV.	08065531228	-----
72	IBRAHIM NASIR	MIN OF ENV.	08036282608	<a href="mailto:ibrahimnasirbunkure@yahoo.com">ibrahimnasirbunkure@yahoo.com</a>
73	MUHAMMAD YAU FALQORE	MIN OF ENV.	08033533680	-----
74	IDRIS S.YAHAYA	MIN OF ENV.	07029287585	-----

75	BALARABE MUSA	MIN OF ENV.	08069627510	-----
76	BALA IBRAHIM LARABAWA	AGRO CHEMICAL ASS.	08036171466	-----
77	MUKTAR S.A. MAGAMI	MIN OF ENV	08028313572	-----
78	NUHUYAKUBU	OGS S.F	08065500492	-----
79	JAMILU G.DLIYA	SMOH	08036444986	<a href="mailto:Gjamiu@ymail/.com">Gjamiu@ymail/.com</a>
80	ABDULLAHI HARUNA	SMOH	07087187366	<a href="mailto:Abdullahisabansara@yahoo.com">Abdullahisabansara@yahoo.com</a>
81	MUHD IBRAHIM YAHAYA	KNARDA	08029459598	-----
82	MUHAMMED U KARA	KNARDA	08034039959	<a href="mailto:Knarda2010@gmail.com">Knarda2010@gmail.com</a>
83	BASHIR ABBA ADUBAKER	MIN OF ENV.	08065573270	<a href="mailto:bashirbinabba@gmail.com">bashirbinabba@gmail.com</a>
84	HAJIYA TALATU K. RABIU	MIN OF ENV.	08035962326	-----
85	USMAN BALA MUHAMMAD	MIN OF ENV.	08023040133	<a href="mailto:usmanbala@yahoo.com">usmanbala@yahoo.com</a>
86	DAYYABU E. GARU	-U-	08035899760	<a href="mailto:dayyabugano@yahoo.com">dayyabugano@yahoo.com</a>
87	TITUS T. IGBE	AFRICAN AGRO KANO	08037712045	<a href="mailto:farmbusmes@yahoo.com">farmbusmes@yahoo.com</a>
88	ONIPEH MOHD	AFRICAN AGRO KANO	08033701230	<a href="mailto:Onipeh2006@yahoo.com">Onipeh2006@yahoo.com</a>
89	DMKDI NANSIR BEBJ	MINISTRY OF ENV.	08039158170	-----
90	SURAJO RABIU	MIN OF ENV.	08064880012	
91	DANKANDE AKONGS .A.	DIZENGOFF W.A KANO BRANCH	08051225552	<a href="mailto:Akongs79@yahoo.com">Akongs79@yahoo.com</a>
92	SULE MUSA	KNARDA	08026776954	-----
93	ABDULLAHI IBRAHIM	SMALL HOLDER FARMER.	08065460094	<a href="mailto:Iyai46@yahoo.com">Iyai46@yahoo.com</a>
94	GARBA SADUULI	SMALL HOLDER FARMER	07035693882	-----
95	ENGR BAFFA ALMAM	MIN OF ENV.	08036558389	<a href="mailto:Dankarami03@yahoo.com">Dankarami03@yahoo.com</a>
96	BALA .H. ABUBAKAR	KASCO LTD	07036125808	
97	BILYAMINU SHUISIBU	NOWAIDA	08036415708	<a href="mailto:Daaindun.i@yahoo.com">Daaindun.i@yahoo.com</a>

98	TIANI YAKUBU	NOWAIDA	08039702934	
99	SULEMAN ABBA	MANR	08027054837	-----
100	ADAMU CIROMA	MANR-KANO	08084881798	-----
101	RABIU DANLAMI	MANR	08025095430	-----
102	IBRAHIM BAKRABE	MANR	08036851482	-----
103	IBRAHIM HASSAN GARKO	MANR	08038700698	-----
104	DANLAMI YAHAYA BAGWAI	SMALL HOLDER FARMERS ASS	08023194544	-----
105	ABDULLAHI .S ABDULKACHI	KNARDA	08064891867	-----
106	SHEHU IDRIS BICH	AGRO CHEMICAL	08065417796	-----
107	AHK. SANDA DAMIJA	AGRO CHEMICAL	08032876521	-----
108	ALLI WALID YAU	NASSARAWA	08065526177	-----
109	HAUWA MUHAMMAD YOLA	WOGEND	08034693399	-----
110	YUSUF USINI GAYA	KAINUWA AGRO	08038962516	-----
111	MURTALA MUHD MAGASHI	M.A.N.R KANO	08036031214 08064940968	-----
112	ABDULKADIR GAMBO	NOWAIDA SABON GARI MARKET	08037051799	-----
113	UMAR ABDU K/MAIA	M.A.N.R KANO	08081350261	-----
114	ILIYASU MUSA KADEMI	SCH. OF H/TECH.	08034421272	
115	BELLO SUKEMAN KADEMI	MANR	08065525365	-----
116	SULE IBRAHIM	M.A.N.R	08191307351	-----
117	DANMUSA UBA WADAURA	SMALL HOLDER FARMER ASS.	08037878103	-----
118	USMAN ADO G/	SMALL HOLDER FARMER ASS.	07030572721	-----
119	HAJIYA ZILAI	SMALL HOLDER FARMAR ASS	08065068933	-----
120	HAMISU GARBA BICH	KNARDA KANO	08065565714	-----

121	MUSTAPH A. BL	KASCO LTD KN	08035515557	-----
122	UMAR ADAMU RIRUWAI	MIN OF ENVIRONMENT KANO	08032817426	-----
123	LAWAN IBRAHIM DIKKO	BUHI AGRO DEALER ASSOCIATION	0066022531	-----
124	Sanni Muhammed	NOWAIDA	07025498222	
125	Kabiru Idris	MIN. Of AGRIC	08032878841	
126	Abduljalal Manzo	NAFDAC	08036066051	
127	Ahmed I.Diigai	MIN. OF ENV.	08031640419	
128	Abdulrasheed Aliyu	MIN OF ENV.	08069353689	
129	Hamisu Abdulahi	SMALL HOLDER FARMERS	07040704140	
130	Yakubu Uba Adamu	ALL FARMERS ASSOCIATION OF NIG.	07028808013	
131	Omeh Vincent	SARO AGRO SCIENCE	07030487677	
132	Ibrahim Tijani	M.A.N.R		
132	Olusanya Stephen	SRADev NIGERIA	08057542066	
133				

## DAY 2

S/No	Name	Organization	Phone No	E-mail address
1	Ado abba	KASCO	07041763648	
2	Bello suleman	M.A.N.R	08065525365	
3	Edward Nyone	COMFORT AGRO.	08034171137	
4	Musa Ibrahim	KNARDA	08032815454	Musalbrahifoto@yahoo.com
5	Kalu eke	CANDELL	07033932872	
6	Edoh Jonathan	AGROCHEMICAL	08036822948	Edosonajeyahoo.com
7	Balarabe muktar	KASCO	08089630257	
8	Ibrahim nasidi	KASCO	0806688498	
9	Sule Ibrahim	MIN.OF AGRIC.	08191307351	

10	Ibrahim balarabo	M.AN.R	080-36851482	
11	Ibrahim Hassan	M.A.N.R	08038700698	
12	Yakubu zakariya'u t/w	KARDA	08069287299	
13	Ibrahim idanii uabara	M.A.N.R	07091234567	
14	Rabiu danlam	M.A.N.R	08091234567	
15	Kabiru idris	MIN OF AGRIC.	08032878841	
16	Abdullahi haruna	MIN OF HEALTH	07087187366	
17	Muhd; ibrahim yahaya	KNARDA	08029459598	
18	Muhd; a. Usman	KNARDA	08036825837	
19	Abdullahi.a. Ibrahim	S.H.F.A	08065460094	4bijayifakoyahoo.com
20	Muritala muhd magashi	M.A.N.R	08036031214	
21	Masud zakari	AFRICAN AGRO LTD.	08077192506	
22	Snim ah	KNARDA	08023202495	
23	Muhd s. Zahraddeea	KNARDA	08027995241	
24	Nasimu a. Garko	KNARDA	08036508261	
25	Bala. H. Abubaka	KASCO	07036125808	
26	Moha ilu tolu	KNARDA	080655748998	
27	Garba aminu	KNARDA	08065566586	
28	Mustpha lawan	KNARDA	08065994209	
	Ubahi wada sagagi	AWSAT	08036894025	
29	Abdulnalik maaruf	KNARDA	080660236636	
30	Nasiru su,eiman	KNARDA	08062772568	
31	Mustpha m. Bich bl	KASCO.	08025515557	
32	Daffiru tamrat	KNARDA	08034984827	
33	Hamisu garba bichi	KNARDA	08065565714	
34	Idris shitu	KNARDA	08036652059	
35	Aminu jafaru	KNARDA	08036094597	

36	Abdu inuwa	KNARDA	07067705566	
37	Inuwa nhba huguma	KNARDA	08036440659	
38	Saminu muritala yakasaiu	MIN. OF ENV.	08034016200	<a href="mailto:Saminun@yahoo.co.uk">Saminun@yahoo.co.uk</a>
39	Abdul magaji	MIN OF ENV.	08091313622	Abdulmagaji@roelatmail.Com
40	Dankande Akongs. A.	DIZENGOFF W. A	080035410554	<a href="mailto:Akongs79@yahoo.Com">Akongs79@yahoo.Com</a>
41	Titus t. Igbe	AFRICAN AGRO LTD	08037712045	Farmbaunen@yahoo.com
42	Yusuf mon- wubul	WUBUL STORE	07086379834	
43	Bello m. Shamono		08020341445	.....
44	Umar abisu k/mata	M.A.N.R	08081350261	.....
45	Muhammad baba ahmad	MIN OF ENV.	08065571631	.....
46	Ome vincent	SARO AGRO LTD	07030487677	<a href="mailto:Uimuyonre@yahoo.Com">Uimuyonre@yahoo.Com</a>
47	Ibrahim Nasir	MIN. OF ENV	08036282608	
48	Dr. S.O Okunade	FED. COLLEGE OF AGRIC PRODUCETECH KANO	07035720422 08023667286	<a href="mailto:Sarvalji@yahoo.com">Sarvalji@yahoo.com</a>
49	Tunde Ojo	DIZENGOFF	08035668166	
50	Prince Emmanuel Ojonuyi	HDF& SON NIG. LTD	08035668166	PrinceEmmanuel15@yahoo.com

### Day 3

S/NO	NAME	ORGANISATION	PHONE NO	E-mail Address
1	ABDUL IBRAHIM N.BICHI	SMAIL HOLDER FERMFO'S	08065460094	lyaji4b@ yahoo. Com
2	ENGR. ABDULLAHI MUNID	NOW AIDA	08050793888	Neg@yahoo.Com
3	ABDULKADIR ALIYU	KNARDA	08036536342	Aaliyu23@yahoo. Com
4	ADAMU CIROMA	MIN OF AGRIC	08084881798	.....
5	DAIYABU ZABAIRU GANO	MIN OF ENVIRONMENT	08035899760	<a href="mailto:daiyebugano@yahoo.com">daiyebugano@yahoo.com</a>
6	Saminu Murtala Yakasi	MIN OF ENV.	08034016200	<a href="mailto:sanibu@yahoo.co.uk">sanibu@yahoo.co.uk</a>

7	Abdul Mugaji	MIN OF ENV	08091313622	Abideagajico.rocketmail.com
8	Leslie Ado Game	SRADev NIGERIA	0803301305	One_ <a href="mailto:adogame@hotmail.com">adogame@hotmail.com</a>
9	Egbuche Chinaza	SRADev NIGERIA	08032871595	Nezzybrown <a href="mailto:nezzybrown@yahoo.com">@yahoo.com</a>
10	Olusanya Stephen	SRADev NIGERIA	08057542066	<a href="mailto:stephenodus@live.com">stephenodus@live.com</a>
11	Pro-Idris Zakeui	MIN OF ENV	08099665855	
12	Abdullahim Abdullahi- Photographer	MIN. OF ENV	08034236135	
13	Najju Ndo Yakabar- Camera	MIN OF ENV	08062771741	
14	Basher Abba Abdubakar	MIN F ENV	08065573270	
15	Hajia Talatu K. Kabiu	MIN. OF ENV	08035962326	
16	Usman Bala Muh	MIN OF ENV	08066430201	
17	Saidu Aoamu Sharfedi	MIN OF ENV	08065497387	
18	Abdullahi Haruna	MIN OF HEALTH	07087187366	
19	Adi H. Bellow	MIN OF ENV	08023217024	<a href="mailto:Adobello2@yahoo.com">Adobello2@yahoo.com</a>
20	Abduljalal Manjo	NAFDAC KANO	08036066051	<a href="mailto:omanzojalal@yahoo.com">omanzojalal@yahoo.com</a> nafdacks2@yahoo.com
21	Halima .T. Bello	WOMEN GENDER DEVELOPER	08035901988	<a href="mailto:halimafibello@yahoo.com">halimafibello@yahoo.com</a>
22	F.E. Banye	WOMEN GENDER DEVELOPERS (WOGEND)	08037905565	<a href="mailto:feliciabaibe@yahoo.com">feliciabaibe@yahoo.com</a>
23	Ado Abba	KASCO	070-41763648	



## Annex H:

### Programme of the event

#### ONDO: DAY 1



#### PROGRAMME OF EVENT

#### **3-Day Regional Awareness Raising, Capacity Building/Training, Community Monitoring Workshop on local Pesticides Management**

**Day 1: Women Development Centre, Akure: 12-14<sup>th</sup> May 2010**

<b>12 MAY 2010 – Registration</b>		
<b>Time</b>	<b>Theme</b>	<b>Responsible</b>
8.00 - 9.00am	Registration by participants	Maryam Olayeni / Chineze
9.00 – 9.30am	Arrival of distinguished invitees/special guest	All

<b>OPENING SESSION</b>		
9.30 – 10.30am	<ul style="list-style-type: none"> <li>▪ Opening Prayers</li> <li>▪ Introduction of Guest and dignitaries</li> <li>▪ Introduction of High Table</li> <li>▪ Welcome Address</li>   <li>▪ Chairman’s Opening Speech</li> </ul>	<p>MC</p> <p>MC</p> <p>MC</p> <p><b>Leslie Adogame</b> (Executive Director, SRADev Nigeria)</p> <p><b>Mr. Adepiti</b> Hon. Commissioner for Environment, Ondo State</p>

<b>TECHNICAL SESSION</b>		
10.30 – 11.00am	-Nigeria African Stockpiles Programme (N-ASP) and Pesticides Management in Nigeria: <i>the journey so far.</i>	<b>Theodore Nwaokwe</b> (Project Coordinator, Nigeria ASP)
11.00 – 11.30am	-Local Pesticides Storage and Stock Management – <i>Implication for Public Health</i>	<b>Chief Julius Akinnigbagbe</b> Hon. Comm. of Agriculture
11.30 – 12.00pm	<b>Questions and Answers</b>	All
<b>12.00 – 12.30pm</b>	<b>Refreshment</b>	
12.30 – 1.30pm	The Role of NGOs in Pesticides Management	<b>Eugene Itua</b> , Programme Director, SRADev Nigeria
<b>GOODWILL MESSAGES</b>		
1.30 – 2.00pm	<ul style="list-style-type: none"> <li>• Crop Life Nigeria</li> <li>• CEEWED, Akure</li> <li>• OGEPA, Abeokuta</li> <li>• Federal Ministry of Agriculture</li> <li>• NAFDAC, Akure zonal office</li> <li>• Others.</li> </ul>	<b>Sam Kunu</b> , President, CLN  <b>Davies Ajana</b> , Exec. Director CEEWED  <b>Dr. Ewulo</b> , GM, OGEPA  <b>Dr. D. A. Okoro</b> , Director, Crop Protection  <b>Pharm. Wole OJO</b>
2.00 – 2.15pm	Closing Remark/Vote of thanks	SRADev
2.15 – 2.20pm	Closing Prayers	
	Photograph/Departure	All
2.30 – 3.30pm	N-ASP Stakeholder's meeting	N-ASP-PMU, NAFDAC, Min. of AGRIC, ENV., local NGO etc.

## ANAMBRA DAY 1



### PROGRAMME OF EVENT

### 3-Day Regional Awareness Raising, Capacity Building/Training, Community Monitoring Workshop on local Pesticides Management

Day 1: Suncity Hotel Exclusive: 9-11<sup>th</sup> June 2010

12 MAY 2010 – Registration		
Time	Theme	Responsible
8.00 - 9.00am	Registration by participants	All
9.00 – 9.30am	Arrival of distinguished invitees/special guest	All

OPENING SESSION		
9.30 – 10.30am	<ul style="list-style-type: none"> <li>▪ Opening Prayers</li> <li>▪ Introduction of Guest and dignitaries</li> <li>▪ Introduction of High Table</li> <li>▪ Welcome Address</li>   <li>▪ Chairman's Opening Speech</li> </ul>	MC MC MC <b>Leslie Adogame</b> (Executive Director, SRADev Nigeria)  <b>Engr. (Dr.) Michael Egbebike</b> Hon. Commissioner for Environment, Anambra State
TECHNICAL SESSION		

10.30 11.00am	–	-Nigeria African Stockpiles Programme (N-ASP) and Pesticides Management in Nigeria: <i>the journey so far</i> . -Local Pesticides Storage and Stock Management – <i>Implication for Public Health</i>	<b>Theodore Nwaokwe</b> (Project Coordinator, Nigeria ASP)
11.00 11.30am	–	<b>Questions and Answers</b>	<b>Chief Godson Ezenagu</b> Hon. Commissioner. of Agriculture
11.30 12.00pm	–		All
<b>12.00</b> <b>12.30pm</b>	–	<b>Refreshment</b>	
12.30 – 1.30pm		The Role of NGOs in Pesticides Management	<b>Eugene Itua</b> , Programme Director, SRADev Nigeria
<b>GOODWILL MESSAGES</b>			
1.30 – 2.00pm		<ul style="list-style-type: none"> <li>• Crop Life Nigeria</li> <li>•</li> <li>• Federal Ministry of Agriculture</li> <li>• NAFDAC, Onitsha zonal office</li> </ul>	<b>Sam Kunu</b> , President, CLN <b>Mrs. Madu</b> , Exec. Director <b>Dr. D. A. Okoro</b> , Director, Crop Protection Mr. B.B. Kine, Deputy Director
2.00 – 2.15pm		Closing Remark/Vote of thanks	SRADev
2.15 – 2.20pm		Closing Prayers	
		Photograph/Departure	All
2.30 – 3.30pm		N-ASP Stakeholder’s meeting	N-ASP-PMU, NAFDAC, Min. of AGRIC, ENV., local NGO etc.

DAY 2



**WORKSHOP PROGRAMME**

Pesticide Storage and Stock Management Capacity Building/Training for Storekeepers, Farmers, Trade Unions, etc to support the Nigeria-ASP Prevention Component”

**Venue:** Ministry of Agriculture Conference Hall (ADP), Awka, Anambra State

**Date:** June 10, 2010

**Time:** 9 a.m. prompt

Day 2 – Thursday, 10 June 2010			
Time	Topic	Description	Training Process/ Methodology
8.30am-9.00am	Registration of participants	<ul style="list-style-type: none"> <li>Distribution of workshop materials</li> </ul>	

<p>9.00am-10.30am</p> <p><b>Session1</b></p>	<p><b>Introductions and Welcome</b></p> <p><b>Expectations</b></p> <p><b>Objectives</b></p> <p><b>Perspectives</b></p> <p><b>Video Documentary</b></p>	<p>This session aims to clarify the objective of the training which are:</p> <ul style="list-style-type: none"> <li>• To promote a learning and awareness on pesticide</li> <li>• To promote local and national consciousness and implementation for the International Code of Conduct on the distribution and Use of Pesticides in Nigeria.</li> <li>• To empower local stakeholders to understand and interpret the International Code of Conduct so that they can assist farmers, peasants and the society to implement the same.</li> <li>• To transfer field capacity acquired by inventory personnel to farmers, store keepers/managers, local government personnel towards institutional strengthening on pesticides management issues at the local policy level.</li> </ul> <p><b>Expected Outcome:</b> Participants have a clearer idea of what the training aims to do, and express their needs and expectations.</p>	<ul style="list-style-type: none"> <li>• Welcome and Introduction</li> <li>• Sharing of expectations and workshop objectives</li> <li>• Questionnaire to assess knowledge and perspective</li> </ul>
<p><b>Group Photographs</b></p>			

10.30am-11:30am  <b>Session 2</b>	<b>Pesticide Stores and Storage of Pesticides</b>	<b>This session aims to provide an overview of how:</b> <ul style="list-style-type: none"> <li>To promote safe handling, storage and use of chemicals and pesticides at grassroots level.</li> <li>To raise awareness and build capacity of storekeepers and managers on the need to avoid stockpiles and adopt best practices.</li> </ul>	<ul style="list-style-type: none"> <li>Inter-active session looking at perceptions and practices of storekeepers that keep them subjugated</li> <li>Background to how pesticides safe handling, storage practices during usage</li> <li>Problems and Issues of Pesticide and Agricultural Sector</li> <li>Overview of Pesticide Use</li> </ul>
11.30pm-11.45pm		<b>General discussions</b>	
<b>11.45-12:00am - HEALTH BREAK</b>			
12:00pm-1.00pm  <b>Session 3</b>	<b>Pesticide shelf life, stock planning and recording system</b>	<b>This session aims to provide an overview of how:</b> <ul style="list-style-type: none"> <li>To promote local and national consciousness and implementation for the International Code of Conduct on the distribution and use of Pesticides in Nigeria.</li> <li>To empower stakeholders to understand, interpret and implement the International Code of Conduct.</li> </ul>	<ul style="list-style-type: none"> <li>Inter-active session looking at pesticides ordering and shelf life stock inspection and shelf life</li> <li>Inter-active session looking at outdated, disposal of outdated and unusable pesticides pesticides stock planning and recording system.</li> </ul>
		<b>1:00 - 2:00pm - LUNCH BREAK</b>	
02:00pm-03:00pm  <b>Session 4</b>	<b>Local transport of Pesticides, spills, leaks, decontamination and disposal of empty containers</b>	<b>The session provides an opportunity for the participants:</b> <ul style="list-style-type: none"> <li>To promote safe transportation and handling of pesticides</li> <li>To learn how to handle spills and leaks</li> </ul>	<ul style="list-style-type: none"> <li>Inter-active session looking how Local transport of pesticides can cause severe cases of poisoning</li> <li>Inter-active session looking complete decontamination and effective disposal</li> <li>Question and answer</li> </ul>

## Programme of Event (Day 3)



### **CONSULTATIVE MEETING ON ANAMBRA STATE PESTICIDES COMMUNITY MONITORING AND SURVEILLANCE GROUP**

#### **AGENDA**

1. Opening prayers
  2. Introduction of participants
  3. Opening remarks by Ministry of Environment – Mrs. Kate Obukwelu
  4. Introduction of purpose of the meeting – Leslie Adogame
  5. Update on the project Aim, Goal, Activities and Outputs – Leslie Adogame
  6. Formation of Anambra State Pesticides Monitoring and Surveillance Group
  7. Vote of thanks/Closing remarks
  8. Departure
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## **KANO DAY 1**



### **PROGRAMME OF EVENT**

#### **3-Day Regional Awareness Raising, Capacity Building/Training, Community Monitoring Workshop on local Pesticides Management**

**Day 1: IMAM WALI CONFERENCE CENTRE, KANO: 14-16 Sept 2010**

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<b>14 Sept 2010 – Registration</b>		
<b>Time</b>	<b>Theme</b>	<b>Responsible</b>
8.00 - 9.00am	Registration by participants	All
9.00 – 9.30am	Arrival of distinguished invitees/special guest	All

#### ***OPENING SESSION***



9.30 – 10.30am	<ul style="list-style-type: none"> <li>▪ Opening Prayers</li> <li>▪ Introduction of Guest and dignitaries</li> <li>▪ Introduction of High Table</li> <li>▪ Welcome Address</li>   <li>▪ Chairman's Opening Speech</li> </ul>	<p>MC</p> <p>MC</p> <p>MC</p> <p><b>Leslie Adogame</b> (Executive Director, SRADev Nigeria)</p> <p><b>Alh. Garuba Yusuf</b></p> <p>Hon. Commissioner for Environment, Kano State</p>
<b>TECHNICAL SESSION</b>		
10.30 – 11.00am	-Nigeria African Stockpiles Programme (N-ASP) and Pesticides Management in Nigeria: <i>the journey so far.</i>	<b>Theodore Nwaokwe</b> (Fed. Ministry of Environment, Abuja)
11.00 – 11.30am	-Local Pesticides Storage and Stock Management – <i>Implication for Public Health</i>	<b>Alh. Musa Suleiman Shalolo</b> Hon. Commissioner. of Agriculture, Kano State
11.30 – 12.00pm	<b>Questions and Answers</b>	All
<b>12.00 – 12.30pm</b>	<b>Refreshment</b>	
12.30 – 1.30pm	The Role of NGOs in Pesticides Management	<b>Eugene Itua</b> , Programme Director, SRADev Nigeria
<b>GOODWILL MESSAGES</b>		
1.30 – 2.00pm	<ul style="list-style-type: none"> <li>• KNARDA</li>   <li>• CropLife Nigeria</li> <li>• COMEIN, WOFAN (NGOs)</li> <li>• NAFDAC, Kano zonal office</li> <li>• Agrochemical Association, Kano branch</li> <li>• Farmers Association, Kano branch</li> </ul>	<p><b>Alh. Mohammed Umar Kura</b>, (Director General)</p> <p><b>Sam Kunu</b>, President, CLN Executive Director</p> <p>Zonal Director</p> <p>President</p> <p>President</p>

2.00 – 2.15pm	Closing Remark/Vote of thanks	SRADev
2.15 – 2.20pm	Closing Prayers	
	Photograph/Departure	All

## DAY 2

**AFRICA**  
STOCKPILES PROGRAMME



PESTICIDE  
ACTION  
NETWORK UK



## WORKSHOP PROGRAMME

[Pesticide Storage and Stock Management Capacity Building/Training for Storekeepers, Farmers](#)

[Trade Unions, etc to support the Nigeria-ASP Prevention Component"](#)

**Venue:** Kano State Agriculture and Rural development Agency (KNARDA) Conference Hall, Kano

**Date:** September 15, 2010

**Time:** 9 a.m. prompt

Day 2 – Wednesday, 15 September 2010			
Time	Topic	Description	Training Process/ Methodology
8.30am-9.00am	<b>Registration of participants</b>	<ul style="list-style-type: none"> <li>Distribution of workshop materials</li> </ul>	
9.00am-10.30am <b>Session1</b>	<b>Introductions and Welcome</b>  <b>Expectations Objectives Perspectives</b>   <b>Video Documentary</b>	<p>This session aims to clarify the objective of the training which are:</p> <ul style="list-style-type: none"> <li>To promote a learning and awareness on pesticide</li> <li>To promote local and national consciousness and implementation for the International Code of Conduct on the distribution and Use of Pesticides in Nigeria.</li> <li>To empower local stakeholders to understand and interpret the International Code of Conduct so that they can assist farmers, peasants and the society to implement the same.</li> <li>To transfer field capacity acquired by inventory personnel to farmers, store keepers/managers, local government personnel towards institutional strengthening on pesticides management issues at the local policy level.</li> </ul>	<ul style="list-style-type: none"> <li>Welcome and Introduction</li> <li>Sharing of expectations and workshop objectives</li> <li>Questionnaire to assess knowledge and perspective</li> </ul>

		<b>Expected Outcome:</b> Participants have a clearer idea of what the training aims to do, and express their needs and expectations.	
<b>Group Photographs</b>			
10.30am-11:30am <b>Session 2</b>	<b>Pesticide Stores and Storage of Pesticides</b>	<p><b>This session aims to provide an overview of how:</b></p> <ul style="list-style-type: none"> <li>To promote safe handling, storage and use of chemicals and pesticides at grassroots level.</li> <li>To raise awareness and build capacity of storekeepers and managers on the need to avoid stockpiles and adopt best practices.</li> </ul>	<ul style="list-style-type: none"> <li>Inter-active session looking perceptions and practices storekeepers that keep the subjugated</li> <li>Background to how pesticides handling, storage practices during usage</li> <li>Problems and Issues on Pesticide Agricultural Sector</li> <li>Overview of Pesticide Use</li> </ul>
11.30pm-11.45pm		<b>General discussions</b>	
<b>11.45-12:00am - HEALTH BREAK</b>			
12:00pm-1.00pm <b>Session 3</b>	<b>Pesticide shelf life, stock planning and recording system</b>	<p><b>This session aims to provide an overview of how:</b></p> <ul style="list-style-type: none"> <li>To promote local and national consciousness and implementation for the International Code of Conduct on the distribution and use of Pesticides in Nigeria.</li> <li>To empower stakeholders to understand, interpret and implement the International Code of Conduct.</li> </ul>	<ul style="list-style-type: none"> <li>Inter-active session looking pesticides ordering and shelf life stock inspection and shelf and life</li> <li>Inter-active session looking outdated, disposal of outdated unusable pesticides, pesticides stock planning and recording system.</li> </ul>
<b>1:00 - 2:00pm - LUNCH BREAK</b>			
02:00pm-03:00pm <b>Session 4</b>	<b>Local transport of Pesticides, spills, leaks, decontamination and disposal of empty containers</b>	<p><b>The session provides an opportunity for the participants:</b></p> <ul style="list-style-type: none"> <li>To promote safe transportation and handling of pesticides</li> <li>To learn how to handle spills and leaks</li> </ul>	<ul style="list-style-type: none"> <li>Inter-active session looking how Local transport of pesticides can cause severe cases of poisoning</li> <li>Inter-active session looking decontamination and effective disposal</li> <li>Question and answer</li> </ul>

Time	Topic	Description	Training Process/ Methodology
<b>03:00-03:15 am - Health Break</b>			
03.15pm - 4.00pm <b>Session 5</b>	<b>Major Emergencies and Personal Protective Equipments (PPEs)</b>	<p>This session will present an opportunity for participants to be:</p> <ul style="list-style-type: none"> <li>Informed of the existence and the hazards in the stores.</li> <li>Enlightened on general body protection.</li> <li>The importance of using PPEs</li> </ul>	<p>Inter-active session on fire, flooding and other risk management.</p> <p>Practical session the use of PPEs</p> <p>Question and answers</p>
04.00pm-04.15pm	<b>Ten (10) rules</b>	<ul style="list-style-type: none"> <li>To outline general rules for pesticide management.</li> </ul>	

04.15pm-04.30pm <b>Session 6</b>	<b>Evaluation of Workshop</b>	<b>The session provides an opportunity for the participants:</b> <ul style="list-style-type: none"> <li>Evaluate the content, conduct and logistics of the workshop</li> <li>To suggest and contribute to future training needs</li> </ul>	“Reflection and quiet time”
04.30pm-05.00pm	<b>Closing Remarks/ Award of certificates/ Vote of thanks</b>		
<b>CLOSING / DEPARTURE</b>			

### DAY 3



## CONSULTATIVE MEETING ON KANO STATE PESTICIDES COMMUNITY MONITORING AND SURVEILLANCE GROUP

### AGENDA

1. Opening prayers
2. Introduction of participants- Saminu Yakasai
3. Opening remarks by Ministry of Environment – Alhaji Dayyabu Zubairu Gano
4. Introduction of purpose of the meeting – Leslie Adogame
5. Update on the project Aim, Goal, Activities and Outputs – Leslie Adogame
6. Inauguration of Kano State Pesticides Monitoring and Surveillance Group (Perm. Sec Min. of Env)
7. Refreshment.
8. AOB/ General
9. Vote of thanks/Closing remarks
10. Departure

**Annex I:**  
**Questionnaire**

Dear Respondents,

This set of Questionnaire is aimed at reducing the risks of pesticides, and to improve pesticide management as well as prevent the accumulation of obsolete pesticide stockpiles. Therefore, your co-operation is needed in answering the questions correctly.

Thank you for your co-operation.

**SECTION A: Socio-Demographic information**

1. Name of Community \_\_\_\_\_
2. Age of respondent (Last birthday): \_\_\_\_\_
3. Sex: Male \_\_\_\_\_ Female \_\_\_\_\_
4. Marital Status: Single \_\_\_\_\_ , Married \_\_\_\_\_ , Separated \_\_\_\_\_ , Divorced \_\_\_\_\_
5. What is your religion? Christianity \_\_\_\_\_ , Islamic \_\_\_\_\_ , Traditional \_\_\_\_\_ , Other (specify) \_\_\_\_\_
6. Nationality \_\_\_\_\_ , Non-Nigerian (Specify) \_\_\_\_\_
7. What is your ethnic group? Yoruba \_\_\_\_\_ , Hausa \_\_\_\_\_ , Ibo \_\_\_\_\_ , Other (Specify) \_\_\_\_\_
8. What is your level of education? Non-formal \_\_\_\_\_ , Primary \_\_\_\_\_ , Secondary \_\_\_\_\_ Tertiary \_\_\_\_\_
9. What is your occupation? Farmer \_\_\_\_\_ , Store keeper \_\_\_\_\_ , Trader \_\_\_\_\_ , Student \_\_\_\_\_
10. How many years have you been involved in this business? <1year \_\_\_\_\_ , 1-10 years \_\_\_\_\_ , 11-20 years \_\_\_\_\_ , >20 years \_\_\_\_\_

**SECTION B: KNOWLEDGE, ATTITUDE AND PRACTICE**

11. Do you know what pesticides are? Yes \_\_\_\_\_ , No \_\_\_\_\_
12. If 'Yes', what do you know as pesticides? \_\_\_\_\_

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13. Name the pesticides you use:

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14. What do you use them for? Pest control \_\_\_\_\_, Insect control \_\_\_\_\_, Weed control \_\_\_\_\_, Vector control \_\_\_\_\_, All of the above \_\_\_\_\_, None of the above \_\_\_\_\_, Others (Please specify) \_\_\_\_\_

15. Where do you get the pesticides? Government \_\_\_\_\_, Stores \_\_\_\_\_, Self-formulated \_\_\_\_\_

16. How often do you apply the pesticides? Daily \_\_\_\_\_, Weekly \_\_\_\_\_, Twice weekly \_\_\_\_\_, Monthly \_\_\_\_\_

17. Do you apply the pesticides on all crops? Yes \_\_\_\_\_, No \_\_\_\_\_

18. How do you apply these pesticides? By spraying \_\_\_\_\_, By sprinkling \_\_\_\_\_, By pouring \_\_\_\_\_, Other method (Please specify) \_\_\_\_\_

19. Do you use any Personal Protective Equipment while applying the pesticides? Yes \_\_\_\_\_ No \_\_\_\_\_

20. If 'Yes', mention them. \_\_\_\_\_

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21. Are you aware that the pesticides also have effect on human health and the environment? Yes \_\_\_\_\_, No \_\_\_\_\_

22. Are you also aware that there is possibility of pesticide residues on the applied crops? Yes \_\_\_\_\_, No \_\_\_\_\_

23. How are these pesticides packaged? In powdery form \_\_\_\_\_, In liquid form \_\_\_\_\_, In pellets \_\_\_\_\_

24. After usage, how do you dispose the container of the pesticide? Re-use \_\_\_\_\_,

By burning \_\_\_\_\_ , By burying \_\_\_\_\_ , By dumping \_\_\_\_\_ , Other (specify)

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25. Are you aware that rain run these pesticides into rivers, leach into wells and sometimes the water table? Yes \_\_\_\_\_ , No \_\_\_\_\_

26. In the event of accidental discharge of pesticide on you or other farmer, do you have a contingency plan in place? Yes \_\_\_\_\_ , No \_\_\_\_\_

27. If 'Yes', what is the plan? \_\_\_\_\_

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28. In the event of spill, what do you do? Quickly mop \_\_\_\_\_ , Leave to dry \_\_\_\_\_ , Rinse with soap \_\_\_\_\_ , Rinse with water \_\_\_\_\_ , Other (specify) \_\_\_\_\_

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29. How do you store these pesticides? \_\_\_\_\_

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### SECTION C: HEALTH EFFECTS

30. What is your current state of health? Very good \_\_\_\_\_ , Good \_\_\_\_\_ , Averagely alright \_\_\_\_\_ , Poor \_\_\_\_\_

31. When last were you ill? Few days back \_\_\_\_\_ , Few weeks back \_\_\_\_\_ , A month ago \_\_\_\_\_ , A year back \_\_\_\_\_

32. Where did you receive the treatment? Hospital \_\_\_\_\_ , Self treated \_\_\_\_\_ , Herbalist \_\_\_\_\_

33. What were you treated for? \_\_\_\_\_

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34. What is the major symptom(s) you have experienced due to exposure to pesticide generally? Asthma \_\_\_\_\_ , Bronchitis \_\_\_\_\_ , Dizziness \_\_\_\_\_ , Nasal irritation \_\_\_\_\_ , Eye Irritation \_\_\_\_\_ , Other (please specify) \_\_\_\_\_

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35. What is the major disease(s) peculiar to the people in this community? \_\_\_\_\_

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36. Do you rear any domestic animal? Yes \_\_\_\_\_ , No \_\_\_\_\_
37. Do you take the animal for veterinary treatment/ check-up? Yes \_\_\_\_\_ , No \_\_\_\_\_
38. If 'Yes', mention them? \_\_\_\_\_
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39. Does your animal feed on any sprayed crop? Yes \_\_\_\_\_ , No \_\_\_\_\_
40. If 'Yes', what was the effect on the animal? Sickly \_\_\_\_\_ , Alright \_\_\_\_\_
41. Is your water supply or any river/ stream close to your farm? Yes \_\_\_\_\_ , No \_\_\_\_\_
42. If 'Yes', what is the name of the river/stream? \_\_\_\_\_