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**Stockholm Convention on Persistent Organic Pollutants**  
**Expert Group to assess DDT production and use and its alternatives**  
**Second meeting**  
Geneva, 21-23 November 2006

## **Draft revision for the DDT questionnaire**

### **Note by the Secretariat**

1. At its first meeting, the Conference of the Parties adopted the format and questionnaire contained in Annex III to its decision SC-1/25 on DDT. In paragraph 4 of that same decision, the Conference of the Parties requested the Secretariat, in cooperation with the World Health Organization, to keep under regular review the adequacy of the information required under sections A, B, C and D thereof and propose to the Conference of the Parties any modifications that are deemed essential.
2. In conducting the regional induction workshops on reporting and data requirements for countries that use or potentially will use DDT for disease vector control, many comments were received from participants on the adequacy of the questionnaire and further requests were made for its simplification by Parties at the second meeting of the Conference of the Parties in May 2006.
3. The Secretariat has reviewed the comments made at the aforementioned workshops and, in collaboration with the World Health Organization, has revised the questionnaire.
4. Annex I to the present note contains the draft of the revised questionnaire.
5. Annex II to the present note contains the original questionnaire that was adopted by the Conference of the Parties.

**Annex I**

**DRAFT REVISION**  
**DDT QUESTIONNAIRE**

**Format for reporting by each Party that uses DDT for disease vector control pursuant to paragraph 4 of Part II of Annex B of the Stockholm Convention on Persistent Organic Pollutants (Section A) combined with a questionnaire for reporting other information relevant for the evaluation of the continued need for DDT for disease vector control (Sections B, C and D)**

**COUNTRY:** ..... **3-year Reporting Period:** ..... - .....

<b>Name of Principal Reporting Official</b>	
<b>Designation</b>	
<b>Agency Name and Address</b>	
<b>Fax:</b>	
<b>e-mail</b>	
<b>Signature of Official</b>	..... <b>Date:</b> .....

**SECTION A: PRODUCTION AND USE OF DDT**

**A.I. SOURCES OF DDT**

**In-country production**

1. Is DDT produced in your country? YES  NO  (If NO, proceed to question # 4)

2. If yes, please list the DDT production facilities in the country:

No	Production Facility and location	Total production capacity (kg)	Net output/yr (kg)			Formulation (type & % of active ingredient (a.i.))	% for in-country use
			Yr. 1	Yr. 2	Yr. 3		
i.							
ii.							
iii.							

3. For each of the production facilities listed above, please provide the following:

No	Facility	Export information				
		Destination country(s)	Quantity/yr (kg)			Formulation (type and % active ingredient (a.i.))
	Yr. 1		Yr. 2	Yr. 3		
i.						
ii.						
iii.						

**Import**

4. Has DDT been imported into your country over the reporting period? YES  NO . (if NO, please proceed to question 6.)

5. If DDT is imported, please provide the following:

Country imported from	Name of manufacturer	Total net wt of import/yr for the reporting period			Formulation (type & % of a.i.)
		Yr. 1	Yr. 2	Yr. 3	

**Stock information**

6. Is DDT repackaged/reformulated in the country? Yes  No  (If NO, please proceed to question 8)

7. If yes, please complete the following table:

Repackaging/reformulation facility	Formulation (type and % of active ingredient)	Annual amount (kg.)

8. Please provide the following information on the usable stocks of DDT in your country:

Location	Total amount in storage (kg)	Formulation (type and % a.i.)	Conditions of storage (e.g. storage capacity; access)

**A.II. DDT DISPOSAL**

9. Do you have obsolete DDT stocks in the country? YES  NO   
(If NO, proceed to question 15)

10. If yes, what is the total weight of obsolete DDT stock in the country? \_\_\_\_\_ kg  
Please tick here  if amount is unknown

11. What condition are stores of obsolete DDT kept?  
Good  Fair  Poor  Very poor

12. Is obsolete DDT disposed off in-country? YES  NO

13. If obsolete DDT was disposed in-country, what was the quantity during this reporting period?

\_\_\_\_\_Kg

14. What was the disposal method used? Electro-chemical  Incineration  Burying   
Other \_\_\_\_\_

15. Was obsolete DDT exported during this reporting period? YES  NO

16. The amount of obsolete DDT exported was: \_\_\_\_\_Kg

17. Was the obsolete DDT exported for: Disposal  Use

**A.III. DDT USE**

18. What is the total amount (kg) of DDT used annually for disease vector control?

Yr 1: \_\_\_\_\_, formulation (type & % a.i.) \_\_\_\_\_

Yr 2 \_\_\_\_\_, formulation (type & % a.i.) \_\_\_\_\_

Yr 3 \_\_\_\_\_, formulation (type & % a.i.) \_\_\_\_\_

19. Please complete the following table for each disease for which DDT is used:

Disease	Main vector species targeted

**A.IV. REGULATION AND CONTROL:**

20. Are there laws and/or regulations governing or restricting the purchase and/or use of DDT?  
YES  No

21. If Yes to question 20, are these laws and regulations fully enforced? Yes  No

**End-use information**

22. Are there non-government agencies (e.g. private agencies, NGOs) involved in using DDT for disease vector control purposes? YES  NO

23. Is DDT used for any other purpose besides disease vector control? YES  NO

24. How would you rate the general acceptance of DDT for indoor-application by the households? (please tick as appropriate): Good  Fair  Poor  Very poor

25. What are the reasons, if any, why DDT is disliked by households for indoor application? (please tick all that apply): Inconvenience  Smell  Residue on walls   
 Strangers entering home  Ineffective   
 Others: \_\_\_\_\_

26. How many DDT application cycles are there in a year? ONE  TWO

**Resistance monitoring**

27. Is there surveillance mechanism(s) for monitoring DDT resistance? Yes  No

28. If undertaken, what bioassay test procedure(s) is used for detecting DDT resistance? \_\_\_\_\_

29. If bioassay is done, please complete the following table on vector susceptibility to DDT according to WHO susceptibility test<sup>1</sup>:

Disease	Main vector species	Minimum mortality %	Maximum mortality %	Year last tested	Specific geographical areas associated with test, if any

<sup>1</sup> Mortality after 24-hour holding period of mosquito specimens exposed to diagnostic concentration (4% DDT) for 1 hour

30. Please provide the following information on DDT residual efficacy according to the WHO standard bioassay test).<sup>2</sup>

(a) DDT bioassay results by month: yr1

Month 1 \_\_\_\_\_

Month 4 \_\_\_\_\_

Month 8 \_\_\_\_\_

Month 12 \_\_\_\_\_

(b) DDT bioassay results by month: yr2

Month 1 \_\_\_\_\_

Month 4 \_\_\_\_\_

Month 8 \_\_\_\_\_

Month 12 \_\_\_\_\_

(c) DDT bioassay results by month: yr3

Month 1 \_\_\_\_\_

Month 4 \_\_\_\_\_

Month 8 \_\_\_\_\_

Month 12 \_\_\_\_\_

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<sup>2</sup> 24-hour holding period mortality of vector strains of known DDT susceptibility exposed for 1 hour to a DDT-sprayed surface (75% WP)

**SECTION B: DDT ALTERNATIVES (INSECTICIDES, METHODS AND STRATEGIES)**

**B.I.: DDT ALTERNATIVES**

31. Please complete as applicable, the following tables for DDT alternatives that are in use:

Alternative control category	Method or chemical used	Disease targeted	Annual use (kg of a.i. or quantity as applicable)	Source (import/local)	Efficacy acceptable Yes/No
Biological control (e.g. Bacteria)					
Chemical control & related strategies (e.g. ITNs, pyrethroids)					
Environmental control (e.g. source reduction)					

32. Complete the table on other DDT alternative(s) that were in use in this reporting period but are not used any more:

Alternative control category	Method or product used & mode of application	Disease targeted	Reason why the use of the method/product was rejected or stopped
Biological control			
Chemical control & related strategies (e.g. ITNs)			
Environmental control			

**B.II. DISEASE MANAGEMENT STRATEGIES**

33. Is there a national vector control policy? YES  NO
34. Is there an integrated vector management (IVM) strategy implemented? YES  NO
35. Is there an entomology laboratory(ies) available in the country? Yes  No
36. Is the Laboratory(ies) adequately equipped to carry out insect resistance testing and related functions? YES  NO
37. Is there research into the development of locally appropriate alternative intervention options to DDT? YES  No
38. If the answer to question 38 is yes, please indicate the type of research: (tick all that apply)  
 Alternative chemical  Alternative product  Biological   
 Vaccine  Other: \_\_\_\_\_

**SECTION C: GENERAL HUMAN AND ENVIRONMENTAL SAFETY ISSUES**

39. Has there been any incident(s) in relation to vector control with generalised human exposure &/or environmental release of DDT in the country (e.g. road accidents, spills)? YES  NO   
(If NO, please proceed to question 44)
40. Was the amount of DDT released from the incident(s) above: <10Kg  <100Kg   
>100Kg
41. Was the DDT that was released from the incident(s) recovered? Yes  No
42. Have safeguards been employed to prevent future incidents? Yes  No
43. Is there a programme to raise awareness among communities and households on safety issues relating to DDT use in disease vector control? YES  NO

**SECTION D: SYSTEMS STRENGTHENING IN DISEASE VECTOR CONTROL**

44. Are there trained personnel in the national disease vector control programme? Yes  No
45. Are there training facilities in the country? Yes  No
46. Is training being conducted on vector control? Yes  No
47. Do formal mechanisms exist for inter-sectoral collaboration in disease vector control?  
Yes  No
48. If these mechanisms exist, is collaboration being implemented? Yes  No



Please provide any other relevant information relevant to your country's situation with regards to the production and use of DDT for disease vector control: \_\_\_\_\_

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**ANNEX II**

**DDT QUESTIONNAIRE**

**Format for reporting by each Party that uses DDT for disease vector control pursuant to paragraph 4 of Part II of Annex B of the Stockholm Convention on Persistent Organic Pollutants (Section A) combined with a questionnaire for reporting other information relevant for the evaluation of the continued need for DDT for disease vector control (Sections B, C and D)**

**COUNTRY:** ..... **3-year Reporting Period:** ..... - .....

<b>Name of Principal Reporting Official</b>	
<b>Designation</b>	
<b>Agency Name and Address</b>	
<b>Fax:</b>	
<b>e-mail</b>	
<b>Signature of Official</b>	..... <b>Date:</b> .....

SECTION A: PRODUCTION AND USE OF DDT

**A.I. SOURCES OF DDT**

**In-country production**

1. Is DDT produced in your country? YES  NO  (If NO, proceed to question # 4)

2. If yes, please list the DDT production facilities in the country:

No	Production Facility and location	Total production capacity (kg)	Net output/yr (kg)			Formulation (type & % of active ingredient (a.i.))	% for in-country use
			Yr. 1	Yr. 2	Yr. 3		
i.							
ii.							
iii.							

3. For each of the production facilities listed above, provide the following:

No	Facility	Export information				
		Destination country(s)	Quantity/yr (kg)			Formulation (type and % active ingredient (a.i.))
			Yr. 1	Yr. 2	Yr. 3	
i.						
ii.						
iii.						

**Import**

4. Has DDT been imported into your country over the reporting period. YES  NO . (if NO, proceed to question 6.)

5. If DDT is imported please provide the following

Country of export	Name of manufacturer	Total net wt of import/yr for the reporting period			Formulation (type & % of a.i.)
		Yr. 1	Yr. 2	Yr. 3	

**Stock information**

6. Is DDT repackaged/reformulated in the country? Yes  No  (If NO, please proceed to question 8)

7. If yes, please complete the following table:

Repackaging/reformulation Agency	Description of repackaging (boxed, polythene bagged; description of labelling etc.)	Formulation (type and % of active ingredient)	Intended end-use	Annual amount (kg.)

8. Please provide the following information on the usable stocks of DDT in your country.

Location	Total amount in storage (kg)	Formulation (type and % a.i.)	Managing authority of facility	Conditions of storage (e.g. storage capacity; access)

**A.II. DDT DISPOSAL**

9. Do you have obsolete DDT stocks in the country. YES \_\_\_\_ NO: \_\_\_\_.

(If NO, proceed to question 13)

10. If yes, what is the total weight of obsolete DDT stock in the country ( kg): \_\_\_\_

Please tick here  if amount is unknown

11. Please provide the following information on facilities where obsolete DDT is stored

Facility and location	Total capacity of storage (kg)	Total amount of obsolete pesticides in storage at the facility	Amount (kg) and approximate age (yrs) of obsolete DDT component

12. For each storage facility storing obsolete DDT listed in question 11, please complete the following on the storage conditions

Facility	Storage conditions					
	Housed or open?	Regular inspection? (yes/no). If yes how often?	Adequate security? (yes/no)	Leaky roof? (yes/no)	DDT leaking into environment (yes/no)	Any other comment on human and environmental safety (e.g. need for repackaging)

13. Which agency is directly responsible for DDT disposal? \_\_\_\_\_

14. Is DDT disposed off in-country? YES  NO

15. If the answer to question 14 is NO, is the obsolete DDT exported? YES  NO . If exported, then indicate destination and intent of export \_\_\_\_\_

16. If obsolete DDT is disposed off in-country, then please complete the following table:

Disposal method (Electro-chemical, incineration etc)	Facilities using method	Years method has been in use	Disposal capacity/yr (kg)	Amount disposed off/yr (kg.)	Cost of disposal (per kg)

**A.III. DDT USE**

17. What is the total amount of DDT used annually for disease vector control (kg)?

Yr 1: \_\_\_\_\_, formulation (type & % a.i.) \_\_\_\_\_

Yr 2 \_\_\_\_\_, formulation (type & % a.i.) \_\_\_\_\_

Yr 3 \_\_\_\_\_, formulation (type & % a.i.) \_\_\_\_\_

18. Please complete the following table for each disease for which DDT is used:

Disease	Total national Population at risk to disease	Disease burden: prevalence rate (a) & mortality rate (b)		% total national population at risk that is covered by DDT use			Main vector species targeted	DDT resistance in target species (Yes, no)	Year resistance was first reported
		a	b	Yr1	Yr2	Yr3			

19. Complete the following table for each disease for which DDT is used (Please use additional page as necessary):

Disease	Local areas where DDT is used (e.g. district)	Population size in targeted areas	Disease transmission classification in targeted areas ( <b>stable or unstable</b> ; if stable, indicate if holo-, hyper-, meso- or hypo-endemic <sup>3</sup> )	Coverage in targeted areas (% of houses)			Annual amount of DDT used (kg)		
				Yr1	Yr2	Yr3	Yr1	Yr2	Yr3

<sup>3</sup> See instructions for definitions of endemicity.

**A.IV. REGULATION AND CONTROL:**

20. Are there laws and/or regulations governing or restricting the purchase and/or use of DDT?

YES  No . If NO, go to question 29

21. If yes, please provide complete the following table (use additional sheets if need).

Title of relevant law or regulation on DDT	Year it was passed or enacted	List the main objectives of the law or regulation (e.g. Prohibits the use of public transport for transporting of DDT)

22. Please indicate the major limitations with the effective enforcement of existing regulations. (Tick all that apply)

Inadequate enforcement resources/facilities	Regulations not well understood by enforcement agencies	Inadequate number of trained personnel	Other (Please specify)

23. Name the overall managing authority for DDT in the country \_\_\_\_\_

24. Which Agency actually authorizes the use of DDT for disease vector control purposes  
\_\_\_\_\_

25. Please clarify if the authorizing agency (check all that apply):

- is directly involved in vector control application of DDT
- performs supervisory roles
- have District offices in charge of DDT application in local areas
- train field staff (spray operators, inspectors etc.)
- Involved in public education on safe use of pesticides

26. Please list any other Agencies with specialized management roles for DDT:

Agency	Description of role in DDT management

**End-use information**

27. Do Local Municipalities use DDT for disease vector control purposes? YES  NO

28. Are there any other Agencies (e.g. private agencies, NGOs) involved in using DDT for disease vector control purposes YES , NO . (If NO, go to question 31).

29. If the answer to question 28 is yes, please complete the following table.

Name of Agency	Areas where Agency uses DDT (e.g. districts)	Population size covered by Agency	Annual amount of DDT used (kg active ingredient)	DDT use related activities carried out by agency		
				training of sprayers (yes/no)	Community education/awareness?	Other (specify)

30. For the agencies listed in question 29, provide the following additional information:

Agency	DDT application budget (as % of overall vector control budget)	Total personnel & Man hours expended per application cycle			Annual Population coverage		
		Yr.1	Yr. 2	Yr. 3	Yr. 1	Yr. 2	Yr.3

31. What is the average cost per house sprayed with DDT (including labour and other operational costs)

Local currency \_\_\_\_\_ current equivalent in US\$ \_\_\_\_\_

32. How would you rate the general acceptance / refusal of DDT for indoor-application by the households (please tick as appropriate):

	Provide calculated rate if available	Estimated rate (if calculated rate is not available)				
		Very Low (1)	Low (2)	(3)	High (4)	Very high (5)
Refusal rate						
Re-plastering rate						

33. If the acceptability of indoor application of DDT is low, what are the reasons given for the lack of acceptance by the households (please tick all that apply):

Inconvenient - moving furniture etc.	Unpleasant smell of DDT	Dislike for white residues on walls	Reluctance to provide access to strangers (sprayers)	Timing of spraying inappropriate	Other (specify)

34. Is DDT application limited to certain house types or households? YES:  NO: . If yes, please indicate the house types targeted (e.g. traditional houses, western-type houses)

35. What are the criteria for selecting a geographical area or community for DDT indoor application?

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36. Who determines the timing of DDT application at the local level?

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37. What factors determine the timing of the DDT application cycle? \_\_\_\_\_

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38. How many DDT application cycles are there in a year? ONE \_ TWO

39. How long does an application cycle take (time – in days or hrs)? \_\_\_\_\_

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**Resistance monitoring**

40. What bioassay test procedure(s) is used for detecting DDT resistance?: \_\_\_\_\_

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41. Please complete the following table on vector susceptibility to DDT according to WHO susceptibility test<sup>4</sup>

Disease	Main vector species	Minimum mortality %	Maximum mortality %	Year last tested	Specific geographical areas associated with test, if any

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<sup>4</sup> Mortality after 24-hour holding period of mosquito specimens exposed to diagnostic concentration (4% DDT) for 1 hour



42. Please provide the following information on insecticide residual efficacy according to the WHO standard bioassay test).<sup>5</sup> (If no information is available for the reporting period, please provide the most recent data.)

(a) DDT bioassay results by month: yr1

Month 1 \_\_\_\_\_

Month 4 \_\_\_\_\_

Month 8 \_\_\_\_\_

Month 12 \_\_\_\_\_

(b) DDT bioassay results by month: yr2

Month 1 \_\_\_\_\_

Month 4 \_\_\_\_\_

Month 8 \_\_\_\_\_

Month 12 \_\_\_\_\_

(c) DDT bioassay results by month: yr3

Month 1 \_\_\_\_\_

Month 4 \_\_\_\_\_

Month 8 \_\_\_\_\_

Month 12 \_\_\_\_\_

43. Briefly describe the surveillance mechanism(s) in the country for monitoring DDT resistance (Include the number & location of sentinel sites, if any):

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<sup>5</sup> 24-hour holding period mortality of vector strains of known DDT susceptibility exposed for 1 hour to a DDT-sprayed surface (75% WP)

**SECTION B: DDT ALTERNATIVES (INSECTICIDES, METHODS AND STRATEGIES)**

**B.I.: DDT ALTERNATIVES**

44. Please complete the following tables for DDT alternatives that are in use:

Alternative control category	Method or chemical used	Disease targeted	Annual use (kg of active ingredient or quantity as applicable)	Target population (%)	Acceptability <sup>1</sup>	Annual budget (US\$) (and as % of vector control )	Unit cost <sup>2</sup>
Biological control (e.g. Bacteria)							
Chemical control & related strategies (e.g. ITNs, pyrethroids)							
Environmental control (e.g. source reduction)							

<sup>1</sup> End-user refusal rate (Rt) and/or use rate (Ut), indicate as appropriate <sup>2</sup> As appropriate. e.g. unit cost of ITN or cost of chemical application per house

45. Complete the following table on sources of the alternative options listed above, as applicable:

Alternative category	Biological or chemical product used	Source (Import/local)	Formulations (as applicable)	Annual import (kg active ingredient)	Managing authority
Biological control					
Chemical control					

46. Complete the following table on the disposal relating to the alternative options listed:

Alternative category	Biological or chemical product used	Total national stock (kg or quantity, as applicable)	Total obsolete stock (kg or quantity, as applicable)	Disposal method used	Annual disposal cost (US\$)	Agency responsible for disposal
Biological control						
Chemical control						

47. Provide information on vector resistance to any of the insecticides listed previously as DDT alternatives in use:

Disease	Vector species	Insecticide tolerance or resistance reported in the country (indicate region/area of country associated with report)	Year of first report

38. Complete the table on other DDT alternative(s) that have been considered for use or have been used in the country in the past but are not used any more:

Alternative control category	Method or product used & mode of application	Disease targeted	Reason why the use of the method/product was rejected or stopped
Biological control			
Chemical control & related strategies (e.g. ITNs)			
Environmental control			

**Main vector(s) susceptibility to insecticide (DDT alternatives listed)**

39. For the alternative insecticides in use, please indicate for the targeted vector species, the minimum & maximum mortality rates using the standard (discriminating/diagnostic) insecticide concentration.

Disease	Vector species	Insecticide 1: .....		Insecticide 2: .....		Insecticide 3 .....		Insecticide 4: .....		Insecticide 5: .....	
		Mortality		Mortality		Mortality		Mortality		Mortality	
		Min %	Max %	Min %	Max %	Min %	Max %	Min %	Max %	Min %	Max %
Year last tested											

**Insecticide residual efficacy (for each insecticide listed above)** Please provide information on insecticide residual efficacy according to the WHO bioassay test.<sup>6</sup> (If no information is available for the reporting period, please provide the most recent data. )

50. Insecticide name: \_\_\_\_\_

Please provide the following information on insecticide efficacy:

(a) Insecticide bioassay results by month: yr1

Month1 \_\_\_\_\_

Month4 \_\_\_\_\_

Month8 \_\_\_\_\_

Month12 \_\_\_\_\_

(b) Insecticide bioassay results by month: yr2

Month1 \_\_\_\_\_

Month4 \_\_\_\_\_

Month8 \_\_\_\_\_

Month4 \_\_\_\_\_

Month12 \_\_\_\_\_

(c) Insecticide bioassay results by month: yr3

Month1 \_\_\_\_\_

Month4 \_\_\_\_\_

Month8 \_\_\_\_\_

Month12 \_\_\_\_\_

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<sup>6</sup> 24-hour holding period mortality of vector strains of known susceptibility exposed for 1 hour to an insecticide sprayed surface.

**B.II. DISEASE MANAGEMENT STRATEGIES**

51. Is there a national vector control policy? YES  NO

52. Is the country implementing an integrated vector management (IVM) strategy YES  NO

53. If yes, please list the components parts of the IVM for the diseases listed in this report:

Disease	Annual budget (US\$)	Vector control component	% of overall budget	Major limitation to implementation

54. Please indicate the vector resistance management strategy employed \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

55. Provide any information on the entomology laboratories available in country. For each laboratory, indicate if it is adequately equipped to carry out insect resistance testing and related functions. If not, please indicate (quantify if possible) the limitations faced: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

56. Is there research into the development of locally appropriate alternative intervention options to DDT?  
 YES  NO

57. If the answer to question 56 is yes, please complete the following table

Type of research on DDT alternative	Institution leading the research	Year initiated

**SECTION C: GENERAL HUMAN AND ENVIRONMENTAL SAFETY ISSUES**

58. Has there been any insecticide incident(s) in relation to vector control with generalised human exposure &/or environmental release of INSECTICIDES in the country (e.g. road accidents, spills)?  
 YES  NO

59. If the answer to question 58 is yes, please complete the following table:

Incident Number	Insecticide (DDT & other)	Details of exposure or environmental release			
		Date	Place	Quantity released	Estimated number of people exposed
I					
ii					
iii					
iv					

60. Please complete the following table for the incidents listed in question 59

Incident number (Question 56)	Details of exposure or environmental release			
	Caused of incident (e.g. Road accident during transport)	Remedial actions taken	Agency undertaking remedial action	Safeguards employed to prevent future incidents
i				
ii				
iii				
iv				

61. Which agency(ies) is(are) responsible for assessing the risks posed by the use of insecticides for public health

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62. Is there a programme to raise awareness among communities and households on safety issues relating to insecticides use in disease vector control YES  NO

63. If yes, who implements the programme and what public education method(s) are used ?

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**SECTION D: SYSTEMS STRENGTHENING IN DISEASE VECTOR CONTROL**

64. Targets for relevant trained personnel in the national disease vector control programme (by category):

Category of personnel	Level of training (PhD, Master, Bachelor)	Present staffing levels (number)	Targeted staffing level
Technical (e.g. management, planners)			
Operational (e.g. sprayers, sanitarians, mosquito collectors)			
other (please list)			

65. What is the overall budget for disease vector control \_\_\_\_\_ (US\$). Also indicate as a percentage of the national health budget \_\_\_\_\_

66. What is the budget shortfall (US\$) for vector control (percentage) Yr.1 \_\_\_\_\_ Yr. 2 \_\_\_\_\_ Yr. 3 \_\_\_\_\_

67. Give the proportion of the annual budget mobilized in-country \_\_\_\_\_ and externally \_\_\_\_\_

68. List the facilities in the country providing training in disease vector control.

Training facility	Specialization (vector biology, entomology etc)	Training level provided (degree or other)	Annual output

69. Provide details on the in-service training programmes available, especially at the regional and district levels:

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70. Do formal mechanisms exist for inter-sectoral collaboration in disease vector control?

YES  NO

If the answer is YES, please complete the following table (tick as appropriate).

Policy on inter-sectoral collaboration	Inter-sectoral committee/board at national level	Inter-sectoral committee at district level	Joint Planning (indicate if national, provincial, district etc.)	Joint implementation of activities



71. If the answer to question 70 is NO, what are the limitations to developing such mechanisms

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72. What are the limitations to the monitoring and evaluation of vector control programmes?

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and how can they be best overcome?

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73. Please provide any other general information relevant to your country's situation with regards to vector borne diseases and their control:

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