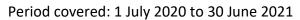


## **FAO-GEF Project Implementation Report**







## 1. Basic Project Data

#### **General Information**

Region:	Africa	
Country (ies):	Benin	
Project Title:	Disposal of POPs and Obsolete Pesticides and Strengthening Lif	e-
	Cycle Management of Pesticides in Benin	
FAO Project Symbol:	GCP/BEN/056/GFF	
GEF ID:	4756	
GEF Focal Area(s):	Chemicals - POPs	
Project Executing Partners:	Ministries of Agriculture, Environment and Health	
Project Duration:	48 months	
Project coordinates:	Component 1:	
( <u>Ctrl+Click here</u> )	Coordinates of the obsolete stock sites:	
	Porto-Novo: N 6° 29' 47" E 2° 36' 12"	
	Cotonou: N 6° 21' 55" E 2° 25' 6"	
	Pobè: N 6° 58' 48" E 2° 39' 53"	
	Zogbodomey: N 7° 1' 4" E 2° 10' 58"	
	Parakou: N 9° 20' 13" E 2° 37' 49"	
	Kandi: N 11° 8′ 3″ E 2° 56′ 19″	
	Banikoara: N 11° 20′ 22″ E 2° 27′ 32″	
	Natitingou: N 10° 18' 15" E 1° 22' 46"	
	- Coordinates contaminated sites:	
	Porto-Novo: N 6° 29' 47" E 2° 36' 12"	
	Bohicon: N 7° 10' 41" E 2° 4' 0"	
	Malanville: N 11° 52' 5" E 3° 22' 59"	
	Component 2: Coordinates of the pilot container of FFS village	es
	Department of Borgou:	•
	Nikki, village Soumarou: N 9° 53' 26" E 3° 6' 25"	
	Kalalé, village Gbessassi Bouka: N 10° 13' 12" E 3° 7' 48"	
	Bembèrèkè, Village Ina: N 9° 58' 34" E 2° 43' 30"	
	Department of Alibori:	
	Gogounou, Village Ouara: N 10° 52' 0" E 2° 51' 0"	
	Kandi, Village Padé: N 11° 5' 0" E 2° 54' 0"	
	Kandi, Village Pèdè: N 11° 7' 43" E 2° 56' 13"	
	Banikoara, Village Godou: N 11° 14' 0" E 2° 25' 0"	
	Ségbana, Village Kambara: N 10° 55' 12" E 3° 29' 24"	

#### **Component 3: Coordinates of ministries/laboratories**

Ministère de l'Agriculture, de	N 6° 21' 26" E 2° 23' 3"
l'Elevage et de la Pêche:	
Laboratoire Central de Contrôle de	N 6° 22' 0" E 2° 26' 0"
la Sécurité Sanitaire des Aliments:	

### **Component 4: Coordinates of research institute and FFS villages**

Institut International d'Agriculture	N 6° 22' 0" E 2° 21' 0"
Tropical (IITA):	

## FFS vegetable crops villages:

#### **Department of Alibori**

Malanville, village Madécali:	N 11° 42' 26"	E 3° 32' 54"
Malanville, village Tomboutou:	N 11° 51' 18"	E 3° 17' 21"
Malanville, village Kambouo Tounga	N 11° 48' 19"	E 3° 28' 26"
Malanville, village Garou Tédji:	N 11° 48' 19"	E 3° 28' 26"
Malanville, village Monkassa:	N 11° 51' 31"	E 3° 23' 14"
Karimama, village Birni-Lafia:	N 11° 58' 42"	E 3° 13' 29"
Karimama, village Karigui:	N 11° 58' 42"	E 3° 13' 29"

## FFS cotton-maize villages:

#### **Department of Borgou**

Bembèrèkè, village Ina:	N 9° 58' 34" E 2° 43' 30"
Bembèrèkè, village Guessou-Sud:	N 9° 58' 34" E 2° 43' 30"
Nikki, village Soumarou:	N 9° 53' 26" E 3° 6' 25"
Kalalé, village Gbessassi Bouka:	N 10° 13' 12" E 3° 7' 48"

#### **Department of Alibori**

Gogounou, Village Ouara:	N 10° 52' 0" E 2° 51' 0"
Kandi, Village Padé:	N 11° 5' 0" E 2° 54' 0"
Kandi, Village Pèdè:	N 11° 7' 43" E 2° 56' 13"
Kandi, Village Angaradébou:	N 11° 18' 41" E 3° 2' 22"
Kandi, Village Bensékou:	N 10° 59' 53" E 3° 8' 56"
Banikoara, Village Godou:	N 11° 14' 0" E 2° 25' 0"
Ségbana, Village Kambara:	N 10° 55' 12" E 3° 29' 24"
Ségbana, Village Liboussou:	N 10° 55' 12" E 3° 29' 24"
Ségbana, Village Piami:	N 10° 55' 48" E 3° 41' 24"

#### **Milestone Dates:**

<b>GEF CEO Endorsement Date:</b>	31/07/2014
Project Implementation Start	22/03/2015
Date/EOD:	
Proposed Project	21/03/2021
Implementation End Date/NTE¹:	
Revised project implementation	30/09/2021
end date (if applicable) <sup>2</sup>	
Actual Implementation End	N/A
Date <sup>3</sup> :	

#### **Funding**

GEF Grant Amount (USD):	1,830,000 USD
Total Co-financing amount as	10,580,625 USD
included in GEF CEO	
Endorsement Request/ProDoc4:	
Total GEF grant disbursement as	1,614,239 USD
of June 30, 2021 (USD m):	
Total estimated co-financing	9,673,618 USD
materialized as of June 30, 2021 <sup>5</sup>	

#### **Review and Evaluation**

Date of Most Recent Project	06 June 2019
Steering Committee Meeting:	
<b>Expected Mid-term Review</b>	February – March 2018
date <sup>6</sup> :	
Actual Mid-term review date:	November 2018
Mid-term review or evaluation	No
due in coming fiscal year (July	
2021 – June 2022) <sup>7</sup> :	
<b>Expected Terminal Evaluation</b>	December 2020 – March 2021
Date:	
Terminal evaluation due in	No
coming fiscal year (July 2021 –	
June 2022):	

<sup>&</sup>lt;sup>1</sup> As per FPMIS

<sup>&</sup>lt;sup>2</sup> In case of a project extension.

<sup>&</sup>lt;sup>3</sup> Actual date at which project implementation ends - only for projects that have ended.

 $<sup>^{\</sup>rm 4}$  This is the total amount of co-financing as included in the CEO document/Project Document.

<sup>&</sup>lt;sup>5</sup> Please see last section of this report where you are asked to provide updated co-financing estimates. Use the total from this Section and insert here.

 $<sup>^{\</sup>rm 6}$  The MTR should take place about halfpoint between EOD and NTE – this is the expected date

<sup>&</sup>lt;sup>7</sup> Please note that the FAO GEF Coordination Unit should be contacted six months prior to the expected MTR date

Tracking tools/ Core indicators	Yes
required <sup>8</sup>	

#### **Ratings**

Overall rating of progress	Satisfactory
towards achieving objectives/	
outcomes (cumulative):	
Overall implementation	Satisfactory
progress rating:	
Overall risk rating:	Moderate

#### **Status**

Implementation Status	6 <sup>th</sup> and final PIR
(1 <sup>st</sup> PIR, 2 <sup>nd</sup> PIR, etc. Final PIR):	

#### **Project Contacts**

Contact	Name, Title, Division/Institution	E-mail
Project Manager / Coordinator	Jacqueline SAGBOHAN	sagbohanjacqueline@yahoo.fr
Lead Technical Officer	Oxana PERMINOVA	Oxana.Perminova@fao.org
Budget Holder	Mphumuzi SUKATI	Mphumuzi.Sukati@fao.org
GEF Funding Liaison Officer	Kuena MOREBOTSANE	Kuena.Morebotsane@fao.org

<sup>&</sup>lt;sup>8</sup> Please note that the Tracking Tools are required at mid-term and closure for all GEF-4 and GEF-5 projects. Tracking tools are not mandatory for Medium Sized projects = < 2M USD at mid-term, but only at project completion. The new GEF-7 results indicators (core and sub-indicators) will be applied to all projects and programs approved on or after July 1, 2018. Also projects and programs approved from July 1, 2014 to June 30, 2018 (GEF-6) must apply core indicators and sub-indicators at mid-term and/or completion

## 2. Progress Towards Achieving Project Objectives and Outcome (DO)

(All inputs in this section should be cumulative from project start, not annual)

Project objective and Outcomes (as indicated at CEO Endorsement)	Description of indicator(s) <sup>9</sup>	Baseline level	Mid-term target <sup>10</sup>	End-of-project target	Level at 30 June 2021	Progress rating 11
Objective(s): To elimin to prevent future accur		pesticides, including PC	DPs and associated was	ites, and to strengthen	the capacity for sound pesticide managemen	nt in order
Outcome 1: Identified risks from existing obsolete stocks eliminated and risks from heavily pesticide- contaminated sites reduced	1a. Up to 200 tonnes of POPs and other obsolete pesticides disposed of in an environmentally sound manner.	504 tonnes of obsolete pesticides and 150 tonnes associated wastes inventoried in 2012. 380 tonnes endosulfan disposed under GCP/BEN/055/JPN	213 tonnes	213 tonnes	<ul> <li>Inventory of obsolete pesticides including POPs (total quantity of 1631 t.) available</li> <li>Environmental management plan and risk assessment available for 213 tonnes prioritized for safeguarding and disposal available</li> <li>Contract between FAO and VEOLIA ES Field Services signed and started implementation for safeguarding stowage, transport, export and disposal of 213 tonnes of obsolete pesticides.</li> <li>Contract 020/BN/AGPM-CPA 343809 of 27/03/2020</li> <li>Preparation by Veolia of Basel notification documents</li> </ul>	S

<sup>&</sup>lt;sup>9</sup> This is taken from the approved results framework of the project. Please add cells when required in order to use one cell for each indicator and one rating for each indicator.

<sup>10</sup> Some indicators may not identify mid-term targets at the design stage (refer to approved results framework) therefore this column should only be filled when relevant.

<sup>&</sup>lt;sup>11</sup> Use GEF Secretariat required six-point scale system: **Highly Satisfactory** (HS), **Satisfactory** (S), **Marginally Satisfactory** (MS), **Marginally Unsatisfactory** (MU), **Unsatisfactory** (U), and **Highly Unsatisfactory** (HU).

Signature of Basel notification documents by the Secretary General of the Ministry of Agriculture,     Livestock and Fisheries (MAEP) as owner/exporter of obsolete pesticide	
of the Ministry of Agriculture, Livestock and Fisheries (MAEP) as owner/exporter of obsolete pesticide	
Livestock and Fisheries (MAEP) as owner/exporter of obsolete pesticide	
owner/exporter of obsolete pesticide	
waste	
Development of the Health Safety	
Environment Plan (PSSE) for the	
securing, storage, export and	
complete safe disposal of obsolete	
pesticides in Benin	
Updating of the Task-Based Risk	
Assessment (ERBT) of the PSSE	
Validation of the PSSE by the Benin	
Environment Agency (ABE)	
Obtaining the 1 <sup>st</sup> Basel notification	
number BJ A4030/6P.7.20 from the	
Ministry of the Living Environment	
and Sustainable Development	
(MCVDD)	
Agreement of transit countries  (Faustorial Cuines Compress Spain	
(Equatorial Guinea, Cameroon, Spain,	
France, United Kingdom, Belgium,	
Netherlands and Germany) of	
obsolete pesticide waste	
Import of materials and equipment for	
securing obsolete pesticides on behalf	
of Veolia	
Training of workers on the safe	
handling of obsolete pesticides	
Reconditioning of obsolete pesticide	
waste (PO) carried out in the thirteen	
(13) priority stores selected in the	
security contract.	
• As of 06/08/2021, the quantity of	
reconditioned POs is estimated at	
<b>167,714 tonnes</b> or 78,86% of the	

contract. The quantity actually weighed is 128,835 tonnes or 60,58% compared to the quantity covered by the contract.  • Systematic decontamination of stores at the end of PO waste reconditioning operations  • Obtaining the export authorization for obsolete pesticide waste from the Directorate General of Customs and Indirect Rights (DSDDI)  • A first export of PO waste is carried out in March 2021 for a net weight of 71.57 tonnes distributed in six (DS) containers for their evacuation and elimination in Switzerland. It should be noted that this 1" export has already arrived at the incineration plant in Switzerland for its disposal.  • Five (DS) obsolete pesticide waste containers with a net weight of 57.265 tonnes are ready for export.  • Preparation by Veola of the documents for the 2"d Basel notification following the end of the documents for the 2"d Basel notification following the end of the 1st notification scheduled for June 30, 2021  • Signature of the documents of the 2"d Basel notification by the SG / MAEP  • Submission to the MCVDD of the file of the 2"d Basel notification by the SG / MAEP  • Submission to the MCVDD of the file of the 2"d Basel notification BJ A030/1P.5.21 covering the period from MM 215, 2021 to January 1, 2022 for the transit of the rest of bosolete pesticides to be		T	1	Т	
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notification following the end of the 1st notification scheduled for June 30, 2021  • Signature of the documents of the 2 <sup>nd</sup> Basel notification by the SG / MAEP  • Submission to the MCVDD of the file of the 2 <sup>nd</sup> Basel notification  • Obtaining of the 2 <sup>nd</sup> number of the Basel notification BJ A4030/1P.5.21 covering the period from May 15, 2021 to January 1, 2022 for the transit					
1st notification scheduled for June 30, 2021  Signature of the documents of the 2 <sup>nd</sup> Basel notification by the SG / MAEP  Submission to the MCVDD of the file of the 2 <sup>nd</sup> Basel notification  Obtaining of the 2 <sup>nd</sup> number of the Basel notification BJ A4030/1P.5.21 covering the period from May 15, 2021 to January 1, 2022 for the transit					
2021  Signature of the documents of the 2 <sup>nd</sup> Basel notification by the SG / MAEP  Submission to the MCVDD of the file of the 2 <sup>nd</sup> Basel notification  Obtaining of the 2 <sup>nd</sup> number of the Basel notification BJ A4030/1P.5.21 covering the period from May 15, 2021 to January 1, 2022 for the transit					9
<ul> <li>Signature of the documents of the 2<sup>nd</sup>         Basel notification by the SG / MAEP</li> <li>Submission to the MCVDD of the file         of the 2<sup>nd</sup> Basel notification</li> <li>Obtaining of the 2<sup>nd</sup> number of the         Basel notification BJ A4030/1P.5.21         covering the period from May 15,         2021 to January 1, 2022 for the transit</li> </ul>					
Basel notification by the SG / MAEP  • Submission to the MCVDD of the file of the 2 <sup>nd</sup> Basel notification  • Obtaining of the 2 <sup>nd</sup> number of the Basel notification BJ A4030/1P.5.21 covering the period from May 15, 2021 to January 1, 2022 for the transit					
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of the 2 <sup>nd</sup> Basel notification  • Obtaining of the 2 <sup>nd</sup> number of the Basel notification BJ A4030/1P.5.21 covering the period from May 15, 2021 to January 1, 2022 for the transit					•
Obtaining of the 2 <sup>nd</sup> number of the     Basel notification BJ A4030/1P.5.21     covering the period from May 15,     2021 to January 1, 2022 for the transit					
Basel notification BJ A4030/1P.5.21 covering the period from May 15, 2021 to January 1, 2022 for the transit					
covering the period from May 15, 2021 to January 1, 2022 for the transit					•
2021 to January 1, 2022 for the transit					
					• • • • • • • • • • • • • • • • • • • •
of the rest of obsolete pesticides to be					
					of the rest of obsolete pesticides to be

				<ul> <li>evacuated outside the national territory.</li> <li>Ongoing preparation of letters of agreement from transit countries (Togo, Equatorial Guinea, Cameroon, Spain, Morocco, France, United Kingdom, Belgium, Netherlands and Germany) for obsolete pesticide waste.</li> </ul>	
1b. At leas contamina sites with risk of exponential level (50% reduction)	and EA and EMP reduced produced.  osure/ tion Baseline contamination of	Risk reduction strategies for 2 contaminated sites developed and approved, and work started.	50% reduction in contamination or exposure levels	<ul> <li>2 sites decontaminated: Malanville (179, 5 Kg of orthène 75 SP) and Bohicon (12,775 kg of thioral): Conceptual site modelling and Environmental Management Plans (EMPs) delivered and validated by Agence Béninoise pour l' Environnement (ABE) decontamination undertaken and monitoring mission confirming decontamination successful</li> <li>Additional site (1) is finalizing decontamination: Oganla (including parathion methyl and DDT, DDD and DDE):</li> <li>characterization and EMP delivered</li> <li>Bio-remediation with Vétiver sp et Jatropha sp in progress</li> <li>Additional sites (2) rapid environmental assessment of contamination delivered, and EMP in validation: Djassin and Djohounta (POPs)</li> <li>Investigations carried out during inventory activities for obsolete pesticide stocks in Benin revealed a number of contaminated sites, 4 of</li> </ul>	HS

					which had been deemed a priority. The choice of these 4 contaminated sites took into account the persistent toxicity in the soil and the odor of the contaminants for the reduction of health and environmental risks for the communities living near these sites.  • Evaluation of capacity of the National Laboratory of the Central Food Safety Laboratory (LCSSA) for pesticide soil contamination analysis undertaken and recommendation provided  • Excavation operation of 21,503 tonnes of dieldrin and aldrin sludge and contaminated earth at the dump of the polluted site of Djassin  • Ongoing update of the work plan for the sanitation of the Djassin site	
Outcome 2: Risks to the environment and human health from empty pesticide containers used in cotton production areas reduced	2a) Number of empty containers triple rinsed, collected and stored awaiting recycling	3.9m containers imported over the last 5 years, 0.5m per year in cotton zone, 8.8 tonnes containers in national inventory	75,000 in PY3	150,000	<ul> <li>Collection of 5,465 empty containers in ten (10) villages in seven (07) municipalities in the departments of Borgou and Alibori through a partnership with the NGO Bethesda</li> <li>Benin did not have a management plan for empty pesticide packaging in the regulatory texts on the management of pesticides. The project decided and retained to implement a pilot plan for the management of empty pesticide packaging, which is the first step in reducing the risks of health and environmental pollution. These packaging are reused by farming communities living in cotton growing</li> </ul>	S

	areas, giving them a second life cycle. The pilot plan is a demonstration of the management plan on a reduced scale with 200 producers and is installed only in two departments of North Benin which is found in the cotton basin. Following the results obtained from the pilot plan, a national sustainable management plan for empty packaging was drawn up for the national management of empty pesticide packaging, which is now the responsibility of the Plant Protection Service of the Production Department Plant of the Ministry of Agriculture, Livestock and Fisheries by decree No. 097/MAEP/DC/SGM /DPV/CJ/SA/091SGG18 of December 18, 2018 laying down the procedures for managing empty packaging of pesticides and biopesticides as well as the procedures for distributing the related costs.  • Treatment and recycling of 5,465
	Treatment and recycling of 5,465     empty pesticide containers into     finished products for non-food use
	Improvement of Bethesda structures to comply to international standards for recycling empty pesticide containers carried
	Training of 20 trainers and 200 cotton and maize farmers on risks of empty pesticide containers and risk reduction options (triple rinsing and perforation and pilot recycling

		scheme) through Farmer Field Schools (FFS).  Poster produced by the project and delivered to 13 FFS  National strategy for empty
		container management including lessons learned from monitoring pilot scheme available
		Analysis of waste water from the treatment and recycling of empty pesticide packaging
		<ul> <li>Results of the analyzes: the results of the analyzes of the waste water revealed the presence of the following chemical substances:         Acetamiprid (0.18 μg/L),         Cypermethrin (0.27 μg/L),         Chlorpyrifos (0.45 μg/L), Emamectin Benzoate (0.12 μg/L), Lead (0.72 mg/L) and Cadmium (0.48 mg/L)</li> </ul>
		Comments from the international consultant in the management of Empty Pesticide Packaging (EVP):  Percent on Law No. 030 of Fahrman.
		Based on Law No. 98-030 of February 12, 1999 on the framework law on the environment and Decree No. 2001-109 of April 4 2001 setting
		wastewater quality standards in the Republic of Benin, it should be possible to discharge contaminated
		wastewater in small quantities. However, this procedure is not recommended. It is more environmentally friendly to
		evaporate waste water by exposing it

					to the sun, and to dispose of residues with obsolete pesticide stocks or, failing that, to store residues in a hazardous waste landfill for their future elimination.  • Preparation of the final report being validated by the international consultant on LoA activities between FOA and NGO Bethesda for the treatment/recycling of empty pesticide packaging	
Outcome 3: Regulatory framework and institutional capacity for the sound management of pesticides throughout their lifecycle strengthened	3a) Revised national legislation in compliance with international and regional obligations adopted by PY4.	Legislation in Benin does not yet support the regional CILSS-ECOWAS-UEMOA harmonization which it joined in 2012.	Review meetings for legislation	Decrees adopted	<ul> <li>Harmonisation of national legislation on pesticide management discussed at national stakeholder workshop and with CILSS experts (linked with output 3.2.)</li> <li>ECOWAS Harmonization of legislation on inspection and control (linking with output3.2)</li> <li>Decree No. 2018-172 of May 16, 2018 laying down the terms of application of community regulations on the approval of pesticides issued and signed by President of Benin (linked with output 3.2.)</li> </ul>	S
	3b) Management Committee (NPMC) and a national system for inspection and quality control of pesticides operational by PY3.	Mandate for pesticide control transferred to ABSSA but not yet operational. The registration committee, CNAC, does not have access to official government budget but financed by	NPMC established Two entry points equipped	National system for inspection and quality control operational	Decrees (2) revised through FAO work under this component was issued by the Council of Ministers and signed by the President of the Republic     Decree N°2018-171 du 16 mai 2018 portant creation, attributions, organization et fonctionnement du Comité	S

registration fees. Neither national strategy nor sustainable funding mechanism for pesticide control.  Rational de Gestion des Pesticides (CNGP)  2. Decree N°2018-172 du 16 mai 2018 fixant les modalités d'application des règlements communautaires sur l'homologation des pesticides en République du Bénin
strategy nor sustainable funding mechanism for pesticide control.  2. Decree N°2018-172 du 16 mai 2018 fixant les modalités d'application des règlements communautaires sur l'homologation des pesticides en
sustainable funding mechanism for pesticide control.  Sustainable funding mechanism for d'application des règlements communautaires sur l'homologation des pesticides en
mechanism for pesticide control.  mechanism for d'application des règlements communautaires sur l'homologation des pesticides en
pesticide control.  communautaires sur l'homologation des pesticides en
l'homologation des pesticides en
· · · · · · · · · · · · · · · · · · ·
République du Bénin
Decrees on the harmonisation and
implementation of Community
regulations on quality control and
management of agricultural inputs in
the ECOWAS/UEMOA/CILSS area
discussed in workshop organized by
the Plant Protection Service/
DPV/MAEP and awareness campaign
agreed. (linked with 3.1.)
Decree N°2018-176 du 16 mai 2018
fixant les modalités de gestion et de
contrôle de qualité des engrais en
République du Bénin
Decree N°2018-173 du 16 mai 2018     instituent la catalogue hégia ia des
instituant le catalogue béninois des
espèces et variétés végétales
Delivery, discussion and validation by
Ministry of Agriculture, Livestock and
Fisheries, Ministry of the Living
Environment and Sustainable,
Development
Ministry of Health, Ministry of
Industry and Commerce, Ministry of
Higher Education and Scientific
Research, Beninese Organization for
the Promotion of Organic
Agriculture, Inter-professional
Cotton Association
Cotton Development Corporation
of the improved national pesticide

	inspection and control system and
	raised awareness among key
	stakeholders in the pesticide sector
	Gaps and dysfunctions as well as
	recommendations relating to the
	inspection and control of pesticides
	in Benin:
	- Lack of reassessment of approved
	pesticides to check whether the health
	and environmental risks are still
	acceptable
	- Lack of CNGP action plan
	- Lack of a pesticide inspection and
	compliance policy
	- Lack of promotion of the legislation
	and its numerous decrees
	- Lack of training for inspectors on
	inspection and law enforcement;
	- Systematic non-execution of
	inspections and controls at all stages of
	the pesticide life cycle, except for
	import.
	- Insufficient or lack of materials,
	technical equipment and
	infrastructure, and lack of staff to
	support inspectors
	- Lack of documents and tools necessary
	for inspections and controls
	- Existence of unapproved pesticides on
	the territory of Benin due to the great
	porosity of the borders
	porosity of the borders
	Posemmendations
	Recommendations  Need for periodic requestion of
	- Need for periodic re-evaluation of
	pesticides to assess whether the risk of
	use is still acceptable
	- Consider technical and informational
	support with a view to the easy

Outcome 4: IPM	4a) Number of	(i) No bio-pesticides	Alternatives	Farmers trained	appropriation of legislative and regulatory texts by members of the CNGP;  - Sensitize inspection managers on the culture of compliance;  - Systematic sampling for the purpose of compliance analysis  - Train inspectors in planning risk-based inspections;  - Have a continuous training plan for inspectors;  - Support technical training and regular retraining of storekeepers  - Sensitize inspectors on the culture of compliance and the assessment of risks related to conflict of interest  - Training of thirty-seven (37) sworn phytosanitary inspectors including 30 men and 7 women on improved inspection methods from all Departmental Direction of Agriculture, Livestock and Fisheries (DDAEP) and Crop Protection Service/Plant Production Department (SPV/DPV) (Port and airport) and monitoring mission  - Acquisition of pesticide inspection equipment for the two (02) entry points for pesticides belonging to the SPV/DPV: Port (Fumigation Center) and airport  - National list of alternatives to POPs	S
alternatives to conventional pesticides successfully promoted and the use of chemical	farmers trained on IPM alternatives through Farmer Field Schools (FFS)	are currently registered (law for bio-pesticides is currently in process of adoption)	identified and field- tested	Tarriers damed	and conventional pesticides delivered and validated with national stakeholder under leadership of IITA- Benin for main crops in Benin including: (i) botanical pesticides in vegetable crops, cowpea and organic	

pesticides, POPs and		(ii) A total of 55	cotton; (ii) parasitoids used in the	
highly hazardous		alternatives have	control of multi-crop pests; (iii)	
pesticides reduced		been identified, 37	biopesticides based on fungi, viruses	
		short-term and 15	or bacteria on cotton, maize, soya	
		long-term	and vegetable crops; (iv) agricultural	
		alternatives.	practices used to break the life cycle	
		Among the 37	of a number of pests of cereal crops	
		short-term, 9 are	and cotton or weeds	
		cultural methods	The validation was made by all the	
		already applied in	stakeholders of the project	
		vegetable	representing the ministries in charge	
		production, 6 are	of agriculture, environment, health,	
		Integrated Pest	agricultural research, NGOs involved	
		Management (IPM)	in the promotion of alternatives to	
		on cassava, maize,	dangerous chemical pesticides,	
		banana and	associations of producers of market	
		vegetables;	gardening and cotton-maize and the	
		(iii) Successful	federation of producers unions.	
		experiences to	<ul> <li>Strategy for field testing, certification</li> </ul>	
		grow cotton	and Promotion of selected	
		without chemical	alternatives with Farmers Field	
		use under OPEBAB	School (FFS).	
		project	Curricula (4) for the implementation	
			of FFS including the Integrated Pest	
			Management on onion, tomato,	
			maize and cotton in Borgou and	
			Alibori.	
			• 25 trainers (total) were trained in	
			IPM for vegetables, maize and cotton	S
			production during two seasons	3
			<ul> <li>400 farmers were trained in IPM</li> </ul>	
			through Farmer Field Schools	
			• 200 farmers (in 7 villages) were	
Outcome 4: IPM			trained for two years in producing	
alternatives to	4b) % Reduction		onions and tomatoes with IPM.	
conventional	in pesticide use		• 200 farmers (in 10 villages) were	
pesticides	on cotton and		trained for two years in producing	
successfully	other crops			

promoted and the	among trained		specific targets to	cotton and maize with IPM were set
use of chemical	farmers		be determined in	up.
pesticides, POPs and			PY1-2	317 men and 83 women took part in
highly hazardous				all CEP activities, i.e. a rate of 20.75%
pesticides reduced				female participation
<b>P</b>				Data generated on pest problems,
				use of pesticides and alternatives
				(553 producers, including 460 men
				and 93 women, involving 20 villages
				in the Borgou/Alibori departments).
				Monitoring and evaluation
				framework for the farmer field
				schools validated with national
				stakeholder and operationalized
				(Ongoing report)
				Soil characterization and sampling of
				the soil for analysis in the laboratory
				Sciences Soil Water and Environment
				(LSSEE/INRAB)
				Development of brochure on
				promotion of biopesticides in Benin
				Conducting efficacy trials on two (02)
				entomopathogens: Metarhizium
				anisopliae, Met 31 and the Nuclear
				Polyhedrosis Virus (Helicoverpa
				armigera Nuclear Polyhedrosis virus
				HaNPV) for the control of caterpillars
				of the pest <i>Helicoverpa armigera</i> of
				tomatoes in Malanville, department
				of the Alibori.
				In terms of experimental trials, we
				noted a reduction in the use of
				pesticides in CEP fields led by
				agricultural producers.
				With regard to the analysis of the
				monitoring results of CEP producers
				over the period from 2016 to 2018, it

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					emerges a 4% reduction in the use of pesticides by CEP producers compared to witness producers using conventional chemical pesticides for cotton production.	
Outcome 5: Project monitored and evaluated effectively and best practices disseminated.	All required M&E reports and evaluations conducted	0	7 (4 PPR, 2 PIR, MTR)	14 (8 PPR, 4 PIR, MTR and final evaluation)	7 Project Progress Report 6 Project Implementation Review (including this one) 9 Project Management Unit meetings 4 Project Steering Committee meetings 1 Mid-term evaluation report of the project 1 rapport d'évaluation finale du projet 1 final project evaluation report 1 project factsheet developed 5 radio spots delivered Regular calls and monitoring on activities between HQ and field office	S

## Action plan to address MS, MU, U and HU ratings

Outcome	Action(s) to be taken	By whom?	By when?

### 3. Progress in Generating Project Outputs (Implementation Progress, IP)

(Please indicate progress achieved during this FY as planned in the Annual Work Plan)

				Achieve	ements at each PIR <sup>14</sup>				Comments	
Outputs <sup>12</sup>	Expected completio n date <sup>13</sup>	1 <sup>st</sup> PIR	2 <sup>nd</sup> PIR	3 <sup>rd</sup> PIR	4 <sup>th</sup> PIR	5 <sup>th</sup> PIR	6 <sup>th</sup> PIR	status	Describe any variance <sup>15</sup> or any challenge in delivering outputs	
Component	Component 1 - Safe disposal of POPs and other obsolete pesticides and remediation of heavily contaminated sites									
Output 1.1 Up to 200 tonnes of POPs pesticides and other obsolete pesticides safely destroyed in line with the Basel Convention	Sept 2021	5% - Update of the national inventory completed - 1,250 tonnes inventoried in Feb. 2016	7% - The complementary inventory of obsolete POPs and pesticides revealed a total of 1,251,274 kg of obsolete POPs and pesticides including the existing stock of obsolete pesticides in the PSMS database Update of the PSMS database for the prioritization of the 200 tonnes of obsolete pesticides to be secured and	10% - Development of the Environmental Management Plan (EMP) for safeguarding and disposal obsolete pesticides - Submission and validation of the EMP by ABE - Finalization of the bidding documents for safeguarding and disposal POPs and obsolete pesticides	15% - Launch of the call for tender with a closing date of 31 January 2019 for the recruitment of an international specialist firm for the safeguarding and disposal of 200 tonnes of POPs and obsolete pesticides: The tender is being evaluated - Picking and safeguarding operations of 354 kg of POPs and obsolete pesticides	20% - Recruitment of VEOLIA ES Field Services for safeguarding, stowage, transport, export and disposal of 213 tonnes of POP and obsoletes pesticides by the FAO contract 2020/BN/AGPM-CPA 343809 of 27/03/2020 A notification letter was sent to all relevant ministries including the Ministry of Agriculture, Livestock and Fisheries (Ministry of Agriculture – MAEP), Ministry in charge of the Living Environment, Ministry	35% - Development of the Health Safety Environment Plan (PSSE) for the securing, stowage, export and complete safe disposal of obsolete pesticides in Benin - Updating and updating of the Task-Based Risk Assessment (ERBT) of the PSSE - Validation of the PSSE by the Benin Agency for the Environment (ABE) - Obtaining the 1st Basel notification number BJ A4030/6P.7.20 from the Ministry of the	92%		

<sup>&</sup>lt;sup>12</sup> Outputs as described in the project logframe or in any updated project revision. In case of project revision resulted from a mid-term review please modify the output accordingly or leave the cells in blank and add the new outputs in the table explaining the variance in the comments section.

<sup>&</sup>lt;sup>13</sup> As per latest work plan (latest project revision); for example: Quarter 1, Year 3 (Q1 y3)

<sup>&</sup>lt;sup>14</sup> Please use the same unity of measures of the project indicators, as much as possible. Please be extremely synthetic (max one or two short sentence with main achievements)

<sup>&</sup>lt;sup>15</sup> Variance refers to the difference between the expected and actual progress at the time of reporting.

aliminated by the	instand of 250 0 lin	of Hoolth and the	Living Environment and
eliminated by the	instead of 259.9 kg	of Health and the	Living Environment and
project.	of obsolete	Ministry of Economy	Sustainable
- Eleven (11) priority	pesticides originally	and Finances.	Development (MCVDD)
stores containing	planned for the	- Official letter received	- Agreement of transit
obsolete POPs and	picking mission	from Ministry of	countries (Equatorial
pesticides with high		Environment indicating	Guinea, Cameroon,
health and	- Evaluation of the	their availability to	Spain, France, United
environmental risk	tender underway	actively support the	Kingdom, Belgium,
factors selected		contract.	Netherlands and
		- Implementation of the	Germany) of obsolete
		contract:	pesticide waste
		- Elaboration of	- Importation of
		descriptive sheet of the	materials and
		safeguarding and	equipment for securing
		disposal operations of	obsolete pesticides on
		the OP to be carried out	behalf of Veolia
		by Veolia on the	- Training of workers on
		instruction of the	the safe handling of
		Ministry of Agriculture	obsolete pesticides
		(MAEP)	- Reconditioning of
		- Dossiers for requesting	obsolete pesticide
		authorization of waste	waste (PO) carried out
		transit after export, in	in the thirteen (13)
		compliance with the	priority stores selected
		Basel Convention have	in the security contract.
		been prepared and sent	- As of 06/08/2021, the
		by Veolia for validation	quantity of
		by the Ministry of	reconditioned POs is
		Environment of Benin	estimated at 167,714
		prior to their extension	tonnes or 78,86% of the
		to countries.	contract. The quantity
		Development by Veolia	actually weighed is
		of the Health, Safety	<b>128,835 tonnes</b> or
		and Environment Plan	60.58% compared to
		(HSE) amended by	the quantity covered by
		project team (currently	the contract.
		under finalization)	- Systematic
			decontamination of
			stores at the end of PO
			waste reconditioning
			operations

	- Obtaining the export
	authorization for
	obsolete pesticide
	waste from the
	Directorate General of
	Customs and Indirect
	Rights (DGDDI)
	- A first export of PO
	waste is carried out in
	March 2021 for a net
	weight of <b>71,57 tonnes</b>
	distributed in six (06)
	containers for their
	evacuation and
	elimination in
	Switzerland. It should
	be noted that this 1st
	export has already
	arrived at the
	incineration plant in
	Switzerland for its
	disposal.
	- Five (05) containers of
	pesticide waste for a
	net weight of <b>57,265</b>
	tonnes are ready for
	export.
	- Preparation by Veolia
	of the documents for
	the 2 <sup>nd</sup> Basel
	notification following
	the end of the 1st
	notification scheduled
	for June 30, 2021
	- Signature of the
	documents of the 2 <sup>nd</sup>
	Basel notification by the
	SG/MAEP
	- Submission to the
	MCVDD of the file of
	the 2 <sup>nd</sup> Basel
	notification

							- Obtaining the 2 <sup>nd</sup> number of the Basel notification BJ A4030/1P.5.21 covering the period from May 15, 2021 to January 01, 2022 for the transit of the rest of obsolete pesticides to be evacuated outside the national territory Ongoing preparation of letters of agreement		
							from transit countries (Togo, Equatorial Guinea, Cameroon, Spain, Morocco, France, United Kingdom, Belgium, Netherlands and Germany) for obsolete pesticide waste.		
Output 1.2 Risks from 2 highly contaminat ed sites quantified, remediation strategies developed and implemente d	Jul 2018	10% Risk quantified at priority sites. ToR for Rapid Environmental Assessment for a site at Assantoun, with a "hot zone" estimated at 900m²	50% - Signature by Alterra University of Wageningen of the Memorandum of Understanding between FAO and Alterra for sanitation/ reduction of the risks of polluted sites in Benin - Mission to investigate the rapid environmental assessment of the heavily contaminated Djohounta site (ex Assantoun, Zou	60% - Development of Specific Environmental Management Plans (EMPs) of the polluted sites of Djassin, Malanville and Bohicon (ex CARDER Zou) - Submission and validation by ABE of the EMPs of the polluted sites of Malanville and Bohicon - Update of the Djassin EMPs according to the recommendations	100% - Validation of the Specific Environmental Management Plan (PGEs) of the contaminated site of Djassin	-	-	100%	

		department, Bohicon commune) (Mission Alterra in Benin August 3 to 10, 2016) - Mission to realize the conceptual models of the contaminated sites of Malanville, Djassin and Bohicon to better refine the technical options of risk reduction of these sites.	of the national team resulting from the extraordinary meeting of the PMU and also to the new observations made by the technical team and the international consultant specialized in decontamination of polluted sites - Submission of the Djassin PGE to ABE for final validation					
Mar 2020	50% (one site decontaminate d)- Reduction in contamination level TOR (national consultant) for decontaminatio n of site at Oganla. Bioremediation commenced in 2015.	Follow-up and maintenance of the landfarm installed by the installation of the detoxification plants (Vetiver sp and Jatropha sp) of the decontaminated site of Oganla: Cut after eight (08) months of plant growth of Vetiver sp for homogenization and replacement of one hundred and twenty Eight (128) plants out of five hundred and fifty (550) plants planted during the remediation of the site.	- Realization of the decontamination operations of the polluted sites of Malanville and Bohicon - Follow-up of the maintenance of the detoxification plants (Vetiver and Jatropha) of the landfarm of the decontaminated site of Oganla: realization of the 3 <sup>rd</sup> and 4 <sup>th</sup> cut of Vetiver and Jatropha plants for the reinforcement of the landfarm in organic matter in order to accelerate	- Follow-up by maintenance and watering of detoxification plants (Vetiver and Jatropha) landfarm decontaminated sites of Oganla, Malanville and Bohicon  - Realization of the monitoring and evaluation mission and maintenance of the decontaminated sites of Malanville and Bohicon through the filling of monitoring sheets (general condition of the landfarm, rainfall and temperature	- Assessment of three decontaminated sites:  1. Bohicon site: lindane analysis result (25μg/kg) less than 244μg/kg at the time of decontamination operations, low biodegradation of the lindane molecule. Lindane is a POP whose biodegradation is difficult and slow, hence the strengthening of the landfarm by covering the soil with biodegradable straw from vetiver plants.  2. Malanville site: the acephate molecule is absent in the samples analyzed by LCSSA.	- Excavation operation of 21,503 tonnes of dieldrin and aldrin sludge and contaminated earth at the dump of the polluted site of Djassin - Ongoing update of the work plan for the sanitation of the Djassin site	100%	

Output 2.1 Sept		10%	80%	100%	that found in the soil sample taken during the 1st monitoring-evaluation carried out in 2016. Note a decrease in the concentration of the DDT (POP) molecule whose biodegradation is very difficult and slow. The international consultant therefore recommended strengthening the landfarm by covering the soil with biodegradable straw from vetiver plants.	-	100%	
Design and Oct 2		- draft national	- Mission of the	- Validation by the				
validation of for		strategy for the	international	International				
a	(NPC) and	management of	consultant	Consultant in empty				

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managemen	national	national	empty packaging of	specialized in	pesticide packaging			
t scheme for	strategy	consultant	pesticides (Report	empty pesticide	management of the			
empty		trained in Lyon	of Development of a	packaging	empty pesticide			
pesticide		(12-16 Oct	strategy for	management in	packaging			
containers		2015) to	management of	Benin from March	management plan			
completed		develop the	empty packaging of	13 to 24, 2017,	in the departments			
		strategy.	pesticides in Benin	which aims to carry	of Borgou and			
		Strategy for	of the national	out a study on the	Alibori			
		empty	consultant in	implementation of				
		container	management of	a pilot plan for the	- Validation by the			
		management	pesticide packaging	management of	International			
		drafted Dec	(December 2015).	empty pesticide	Consultant of the			
		2015.	- Approximately	packaging in the	strategy of			
			200,235 empty	departments of the	treatment and			
			pesticide containers	country. Borgou	recycling of empty			
			in state and private	and Alibori	pesticide packaging			
			structures, including	- Sensitization of	by the NGO			
			the 30,000 empty	project	Bethesda			
			containers	stakeholders				
			inventoried in state	involved in the				
			structures in 2012,	rational				
			are to be secured	management of				
			for processing/	empty pesticide				
			recycling.	packaging.				
				- Sensitization of				
				cotton producers				
				through the CEP on				
				triple rinsing				
				technique, drilling				
				to make them				
				unusable and				
				collection of empty				
				pesticide				
				packaging.				
				- At the end of the				
				mission, a work				
				plan for 2018 and				
				2019 for the				
				implementation of				
				-				
				the pilot plan for				
				the management				
				of empty pesticide				

				packaging in the departments of Borgou and Alibori was prepared by the international consultant					
Output 2.2 The empty pesticide container managemen t scheme piloted in Alibori and Borgou Department s	Oct 18 – farmer training Apr 19 - Scheme up and running Dec 19 - evaluati on	5% Workshop to develop training curriculum for Farmer Field Schools planned for August 2016	awareness-raising of producers on the rational management of empty packaging of pesticides at the level of the FFS crops vegetable and cotton by the master trainers during the Facilitator Training (as part of Component 4).	15% - Preparation of LoA between FAO and the Social Engineering and Environment Company (CISE)/NGO Bethesda for the treatment and recycling of empty pesticide packaging in the departments of Borgou and Alibori - Development and validation of the LoA technical annex by the project technical team - Ongoing finalization of LoA between FAO and CISE/NGO Bethesda	25% - Training and sensitization of the 2018 FFS cottonmaize facilitators on the technique of triple rinsing and management of empty pesticide packaging - Production of a poster on empty pesticide packaging to raise awareness among producers on the management of empty pesticide packaging at the level of the thirteen (13) FFS installed in 2018 in the departments of Borgou and Alibori - Training and sensitization of CEP producers on the dangers related to the use of chemical pesticides and the management of empty pesticide packaging (triple rinsing)	- A total of 5,465 EPP were collected in the departments of Borgou and Alibori - Benin did not have a management plan for empty pesticide packaging in the regulatory texts on the management of pesticides. The project decided and retained to implement a pilot plan for the management of empty pesticide packaging, which is the first step in reducing the risks of health and environmental pollution. These packaging are reused by farming communities living in cotton growing areas, giving them a second life cycle. The pilot plan is a demonstration of the management plan on a reduced scale with 200 producers and is installed only in two departments of North Benin which is found in the cotton basin. Following the results	- Analysis of waste water from the treatment and recycling of empty pesticide packaging - Results of the analyzes: the results of the analyzes of the waste water revealed the presence of the following chemical substances: Acetamiprid (0.18 μg/L), Cypermethrin (0.27 μg/L), Chlorpyrifos (0.45 μg/L), Emamectin Benzoate (0.12 μg/L), Lead (0.72 mg/L) and Cadmium (0.48 mg/L) - Comments from the international consultant in the management of Empty Pesticide Packaging (EVP): Based on Law No. 98-030 of February 12, 1999 on the framework law on the environment and Decree No. 2001-109 of April 4 2001 setting wastewater quality standards in the Republic of Benin, it	95%	

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				sensitization of	obtained from the pilot	should be possible to		
				producers of	plan, a national	discharge contaminated		
				different categories	sustainable	wastewater in small		
				of farm typology on	management plan for	quantities. However,		
				triple rinsing and	empty packaging was	this procedure is not		
				management of	drawn up for the	recommended. It is		
				empty pesticide	national management	more environmentally		
				packaging	of empty pesticide	friendly to evaporate		
					packaging, which is now	waste water by		
				- Identification of	the responsibility of the	exposing it to the sun,		
				collection and	Plant Protection Service	and to dispose of		
				regrouping points	of the Production	residues with obsolete		
				by village and	Department. Plant of	pesticide stocks or,		
				department of	the Ministry of	failing that, to store		
				empty pesticide	Agriculture, Livestock	residues in a hazardous		
				packaging	and Fisheries by decree	waste landfill for their		
				- Signing and	N°097/MAEP/DC/SGM/	future elimination.		
				execution of LoA	DPV/CJ/SA/091SGG18	Dranavation of the		
				activities between	du 18 décembre 2018	- Preparation of the		
				FAO and the	fixant les modalités de	final report being		
				Bethesda NGO for	gestion des emballages	validated by the		
				the treatment	vides de pesticides et	international consultant		
				/recycling of empty	de biopesticides ainsi	on LoA activities		
				pesticide packaging	que les modalités de	between FOA and NGO		
				in the Borgou and	répartition des frais y	Bethesda for the		
				Alibori	afférents.	treatment/recycling of		
				departments: Start	- Shredding of EPP	empty pesticide		
				up and continuation	resulted in a weight of	packaging		
				of the	252 kg			
				redevelopment	- Treatment and			
				work and upgrading	recycling of EPP into			
				to health standards/	finished products for			
				safety/environment	non-food use:			
				of processing and	manufacture of brick			
				recycling center for	pavers and flower pots			
				empty pesticide	by liquefying granules			
				packaging	mixed with very fine			
					sand:			
				- Visit to the	- Number of plastic			
				Bethesda NGO	pavers produced: 62			
				treatment and				
				recycling center to				
	I	1	L	122,0			<u> </u>	

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		assess the	- Number of plastic		
		implementation of	bricks produced: 04		
		the upgrading work	bricks of 10		
		of the treatment	- 6 plastic flower pots		
		center	- A thorough evaluation		
			of pilot empty container		
			projects was carried by		
			the national consultant		
			and is available. It		
			includes expectations		
			and recommendations		
			for building a national		
			strategy.		
			- The evaluation		
			identifies success and		
			expectation from		
			farmers involved and		
			difficulties including		
			poor road infrastructure		
			and lack of non-		
			recyclable waste		
			treatment options. It		
			reccomends pre-		
			treatment (compaction		
			or grinding) in the		
			collection area to		
			minimize transport		
			constraints.		
			- Currently, the rational		
			management of EPP is		
			entrusted to the		
			structure in charge of		
			plant protection, the		
			DPV through a 2018		
			decree N°097/MAEP/DC		
			/SGM/DPV/CJ/SA/091S		
			GG18 du 18 décembre		
			2018 fixant les		
			modalités de gestion		
			des emballages vides de		
			pesticides et de		
			The state of the s		
			biopesticides ainsi que		

Component 3 - St	rengthening the regul	atory framework and	l institutional capaci	ty for the sound man	les modalités de répartition des frais y afférents Proposals are made for the permanent funding for the implementation of the containers management system, including the application of the polluter pay principle Development of a management plan for empty pesticide packaging in Benin is launched			
Output 3.1	5%		30%	40%		1_	100%	
National	National	25%	- Revision	- Order in Council of	_	-	100%	
legislation	workshop (10-	- Workshop on the	workshop (29 to 31	Ministers and				
and	11 Sept 2015)	Validation of Draft	August 2017) draft	signature by the				
regulations	with	Legislation and	decrees on the	President of the				
for	participation of	Decree on	implementation of	Republic of:				
-	2 CILSS experts	Biopesticides in the	Community	(i) Decree No.				
registration and control	Validation of	Republic of Benin	regulations on	2018-171 of				
		organized by the	_	May 16, 2018				
of pesticides	biopesticides	Plant Protection	quality control and					
revised in line with	decree Jan 16.	Service (SPV) in the	management of	establishing,				
		framework of	agricultural inputs	attributing,				
internationa		strengthening the	in the ECOWAS	organizing and				
I obligations and the		regulatory	area organized by the Plant	operating the National				
regional		framework and	Protection Service	Pesticide				
CILSS-		institutional	/ DPV with the	Management				
ECOWAS-		capacities for the	participation of the	Committee				
UEMOA		rational	national consultant	(CNGP) and				
common		management of	specializing in	(ii) Decree No.				
system and		pesticides and the	legislation	2018-172 of 16				
submitted		registration of	- Workshop on the	May 2018 laying				
		biopesticides (20	validation of draft	down the				
to		and 21 January						
Governmen		2016).	decrees laying	procedures for				
			down the terms of	the application				

t for		- The mission of the	application in	of Community
approval.		international legal	Benin of the	regulations on
approvai.		consultant in Benin	ECOWAS	the approval of
		(27 to 31 March	Regulations on the	pesticides in the
		2017) made it	harmonization of	Republic of
		•		· ·
		possible on the one	the rules governing	Benin
		hand to inquire	the quality control	
		about the concerns	of agricultural	- Campaign of
		of stakeholders and	inputs organized by	internalization and
		stakeholders	the Plant	sensitization on the
		involved in the	Protection Service	decrees of
		management of	/ DPV with the	application of the
		pesticides and on	participation of the	ECOWAS/
		the other hand to	Coordinator of the	UEMOA/CILSS
		identify the	project.	regulations relative
		different texts that	- Decree by the	to the quality
		govern the	President of the	control and the
		institutional,	Republic of decrees	management of
		legislative and	on the CNGP and	pesticides organized
		regulatory	on the approval of	by the Service of
		framework in the	pesticides in the	Plant
		field of pesticide	Republic of Benin.	Protection/DPV
		· ·	Republic of Berlin.	
		management. It also		/MAEP
		analyzed the		
		regional regulation		- Designation of the
		C/ REG.3/05/2008		members of the
		harmonizing the		CNGP by the
		rules governing		national structures
		pesticides in		involved in pesticide
		ECOWAS and noted		management
		potential difficulties		- Development of
		in relation to these		operational
		different texts that		application orders
		do not take into		and management of
		account the		the CNGP
		management of the		
		cycle of pesticides		
		especially the		
		management aspect		
		of empty packaging		
		of pesticides. During		
		this mission, the		

			international						
			consultant						
			sensitized						
			stakeholders on the						
			complexity of						
			integration between						
			regional provisions						
			and the national						
			institutional and						
			legal framework for						
			pesticides.						
Output 3.2	Sept 16	5%	25%	-	70%	-	-	100%	
A national	- '	- National	- Information and		- Validation by the				
strategy,	Strategy	workshop (10-	awareness-raising		international				
workplan	(consult	11 Sept 2015)	workshop (10		consultant and the				
and budget	ant	with	March 2016)		technical team of				
for	report)	participation of	organized by the		the project of the				
inspection	Jul 17 –	2 CILSS experts,	Plant Protection		report of the				
and quality	resource	agreed to	Service (SPV) of the		national consultant				
control of	s	develop an	Department of Plant		on the post-				
pesticides	allocate	Interministerial	Production (DPV) of		homologation				
developed,	d for	Decree to	the Ministry of		management of				
and a	NPMC	establish a	Agriculture,		pesticides in Benin:				
National		NPMC	Livestock and		Evaluation of the				
Pesticide		s	Fisheries (MAEP) of		capacity of control				
Manageme		- Awareness	Benin on the		and inspection				
nt		raising	establishment and		,				
Committee		workshop on	functioning of		- Validation by the				
established		NPMC (10	NPMCs in all		technical team of				
		March 2016),	member states of		the project of the				
		35 participants	the regional CILSS-		report of the				
		(6 women)	ECOWAS-UEMOA		international				
			region		consultant:				
			- Pesticide		Post-approval				
			inspection action		management of				
			plan proposal		pesticides in Benin:				
					Gaps and Strategies				
					for Consolidating				
					Inspection and				
					Compliance				
					Promotion Activities				

Output 3.3	May 19 -	5%	10%	40%	20%	25%	-	100%	
National	Equipm	ToR approved	Procurement	- Mission of the	- Consultation with	- Acquisition of			
capacity for	ent	by LTO for	procedures for the	national	the structures	equipment for			
pesticide	Jun 19 -	national &	recruitment of the	consultant,	involved in the	inspection and control			
inspections	Inspecto	international	national pesticide	specialist in	inspection and	of pesticides including			
and post-	r	consultants for	management	inspection and	control of pesticides	laboratory equipment			
registration	training	inspection &	consultant:	control of	belonging to the	to the two (02) entry			
control	cranning	information	inspection and	pesticides, which	SPV: Port	points of pesticides			
increased		exchange for	exchange of	aims at the	(fumigation center)	belonging to the SPV:			
mercuseu		pesticide	information	evaluation of the	and airport for the	Port (fumigation center)			
		management	IIIIOIIIIatioii	capacity and the	expression of	and airport			
		management		activities of	equipment needs.	- Workshop to validate			
				inspection and	- Visit of the	the improved national			
				quality control of	Central Food Safety	pesticide inspection and			
				pesticides all along	Control Laboratory	control system and			
					· ·	· · · · · · · · · · · · · · · · · · ·			
				their life cycle in Benin from their	(LCSSA) to study	raise awareness among			
					and assess the	key stakeholders in the			
				point of view entry	different sampling	pesticide sector:			
				through	equipment and	✓ Sensitization of			
				importation,	equipment	National Pesticide			
				transportation,	- Preparation of two	Management			
				storage,	(02) lists of	Committee (NPMC)			
				distribution, sale	pesticide inspection	members on the			
				and use.	and control	importance of			
				- Report on	equipment and	pesticide inspection			
				Pesticide	equipment to be	and control activities			
				Management:	made available to	for the protection of			
				Inspection and	the two (02) points	human and animal			
				Information	of entry of the SPV	health and the			
				Exchange,	pesticides to	safeguarding of the			
				Assessment of	support the control	environment in			
				Pesticide	and inspection	Benin.			
				Inspection and	actions to make	✓ Validation of the			
				Control Capacity	them available.	proposal for the			
				and Activities	operational	improved national			
				Throughout their	- Finalization of the	system of pesticide			
				life cycle in Benin	procurement at	inspection and			
					FAO-Benin level and	control by the			
					acquisition of a (01)	members of the			
					batch of materials	National Pesticide			
					and equipment for				
					the benefit of the				

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		1	T	1	1		T		
						the use of the			
						phytosanitary			
						manual as an			
						inspection and			
						control tool			
						✓ the effective			
						application of the			
						content of regulatory			
						texts			
						√ capacity building in			
						terms of technical			
						equipment and			
						materials			
						✓ Provision of the			
						inspection and			
						control system for			
						pesticides in			
						sufficient human			
						resources			
					11	resources			
Component	4 – Promo	tion of alternativ	es to POPs and other	r nazardous chemica	i pesticides				
Output 4.1	Feb 16 -	10%	90%	-	-	-	-	100%	
Potential	Data	Letter of	Organization of a						
alternatives	base	Agreement with	workshop at IITA						
to	availabl	IITA to identify	(30-31 August to 1						
endosulfan,	e	and test	September 2016) of						
POPs and	Jul 16 –	alternative	the stakeholders to						
other	alternati	products to	agree on the						
obsolete	ves	pesticides has	identified potential						
pesticides	identifie	been	alternatives and to						
identified	d	developed.	develop the						
and an	"	developed.	strategy for field						
action plan		IITA is carrying	testing,						
for field		out a stock-	homologation and						
testing,		taking of	Promotion of						
registration		alternative	alternatives to the						
registration			aiternatives to the				1		
			EEC						I
and		methods	FFS						
and promotion		methods (bioproducts	FFS						
and		methods (bioproducts and practices)	FFS						
and promotion		methods (bioproducts	FFS						

	ı		T			1		1	
		cotton, rice and							
		vegetables.							
		Focus group							
		discussions in							
		18 villages with							
		farmers from							
		the typology							
		are underway							
		to analyse							
		pesticide use on							
		vegetables and							
		rice farming							
		systems, main crop production							
		and protection							
		issues and to							
		identify							
		potential							
		alternatives.							
		A workshop to							
		finalise FFS plan							
		and IITA testing							
		is planned for							
		August 2016.							
Output 4.2	Oct 16 –	10%	40%	20%	30%	Metarhizium anisopliae	-	100%	
Identified	field	National	- Elaboration by IITA	- IITA conducts	- Signature and	Met 31 and the nuclear			
alternatives	tests of	consultant from	of the protocols and	tests on potential	implementation of	polyhedrosis virus			
to	alternati	PAPA/INRAB to	test plan on	alternatives to	activities of the	(Helicoverpa armigera			
endosulfan,	ves	supervise field	validated cotton	endosulfan, POPs	second phase of the	Nelcear Polyhedrosis			
POPs and	Jul 17 –	data collection	alternatives by the	and other obsolete	partnership	Virus) (HaNPV) isolate			
other	registrat	(typology) has	national	pesticides through	between FAO and	on tomato in Madecali			
hazardous	ion of	been recruited.	stakeholder	laboratory and	IITA (International	(Malanville, Alibori			
pesticides	alternati		workshop	field experiments	Tropical Agriculture	department)			
tested for	ves		- Conducted by IITA	- Report of tests on	Institute) for the				
their	Jun 18 –		in the field of tests	alternatives	conduct of efficacy	Metarhizium anisopliae			
technical	Value		on potential	validated by the	trials of the	Met 31 and the nuclear			
and	chain		alternatives to	workshop on	identified	polyhedrosis virus			
economic	analysis		endosulfan, POPs	potential	alternatives, in	isolate ( <i>Helicoverpa</i>			
feasibility at	ununysis		and other obsolete	alternatives to	particular for	armigera Nelcear			
farm level			pesticides	POPs and other	alternatives based	Polyhedrosis Virus)			
iaiiii levei			pesticiues	rors and other	aiternatives based	ruiyileulusis VII'us)			

- Productio	on of chemical pesticides	on fungi, viruses	(HaNPV) on cotton in		
spores of E		or/and bacteria for	the Facilitating School		
bassiana	syntheses	control of	Field in Kassakou		
(entomopa		tomatoes pests:	(Kandi, Alibori		
fungus), pr		✓ Establishment of	department)		
for aphid o		the tomato	department)		
and tests f		nursery			
herding	OI	✓ Transplanting			
Herding		-			
		tomato plants  ✓ Organic manure:			
		One week after			
		transplanting			
		✓ First observations			
		and first			
		application of			
		products			
		✓ Weekly			
		application of			
		tomato products			
		(Metarhizium			
		anisopliae Met 31			
		and the nuclear			
		polyhedrosis			
		virus isolate			
		(Helicoverpa			
		armigera Nelcear			
		Polyhedrosis			
		Virus) (HaNPV).			
		VII US) (Maine V).			
		- Continuation and			
		finalization of the			
		effectiveness tests			
		of the alternatives			
		in real environment			
		(Malanville,			
		department of			
		Alibori) for the			
		control of			
		Helicoverpa			
		armigera of tomato			
		in LoA FAO IITA			
		framework			
		Halliework		]	

					- Analysis of the test results: The experiment made it possible to assess and confirm the efficacy of the bioinsecticides Metarhizium, Met 31 and the HaNPV virus used on larvae of Helicoverpa armigera, a pest of tomato, cotton and many other species.				
Viable alternatives to Sendosulfan, POPs and other obsolete pesticides promoted construction of the sendosulfan, POPs and other obsolete pesticides promoted construction of the sendosulfan of the sendosu	raining agents sept 17 & Apr 18 — armer raining Mar 18 — communication attrategy	10% National consultant to develop an FFS implementation plan has been recruited.	50% - Four (04) FFS training sessions for trainers (Facilitators) took place from September 2016 to February 2017 in Malanville on the promotion of Alternatives to hazardous chemical pesticides on vegetable crops (tomato and onion) - Promotion of alternatives with the use of aqueous neem extracts to protect tomato plants against insect pests at the CEP level - Data collection mission at the start and end of the cycle as part of the	20% - Conduct of 4 facilitator training sessions (FDF) on cotton-maize FFS respectively from June 27 to July 3, August 24 to 29, November 04 to 14 and December 13 to 24, 2017 - Supervision mission of the 1st session of FDF by the international consultant in FFS of the technical team AGPM - Training on the recycling of facilitators of FFS vegetable crops (CUMAR) 2016, installation FFS CUMAR 2017 and monitoring of FFS	other cultures.  20%  - Carried out training on the recycling of thirteen (13) FFS cotton- maize facilitators  - Baseline survey in the seven (7) new 2018 cotton-maize FFS + four (4) control villages in the Borgou and Alibori departments  - Monitoring, installation and operation of thirteen (13) cotton-maize FFS 2018 in the departments of Borgou and Alibori including: ✓ Five (05) 2 <sup>nd</sup> year CEP (BPA, Special Studies)	20% - Delivery of the final report on the project Farmers Field Schools (FFS) for the promotion of non-toxic alternatives to chemical pesticides on vegetable crops, cotton and maize in the departments of Borgou and Alibori - Monitoring and evaluation of FFS actions: Finalization of the final report on the effect of FFS in integrated management of cotton production and pests - Development of the communication strategy on the impact of empty pesticide packaging and the promotion of alternatives to	-	100%	

	assessment of the FFS vegetable crops (Sept 2016 and April 2017) - Implementation of the 1st FFS TOT training session of the facilitators in	- Two (02) follow- up missions for FFS market garden crops respectively from 05 to 13 February and from 11 to 17 March 2018 in the	in Piami, Gbessassi Bouka, Padé, Wara and Ina; ✓ Eight (08) 1st year CEP (BPA and PP) in Angaradébou,	conventional chemical pesticides  - Realization of the project factsheet (in finalization)  - Preparation of summary case study on		
	June 2017 on the promotion of alternatives to hazardous chemical pesticides on cotton and maize in the departments of	communes of Malanville and Karimama - Final report of training sessions for cotton-maize FFS facilitators	Pédè, Bensékou, Kambara, Liboussou, Godou, Soumarou and South Guessou.	FFS natural solutions for sustainable agriculture fro the GEF project in Benin: "Promotion of non-toxic alternatives to synthetic chemical pesticides through the		
Output 4.3 Viable	Borgou and Alibori	- Conduct of a study on the commercialization of alternatives to conventional chemical pesticides in Benin	- Monitoring of cotton-maize CEP activities by FAO-Benin	Farmer Field Schools (FFS) cotton-maize in Benin: neem oil and food spray a combination for sustainable cotton production in Benin "		
alternatives to endosulfan, POPs and other obsolete		- Monitoring and evaluation of FFS: Mission of the international and national consultants	monitoring and final evaluation activities of the 2018 cottonmaize CEP activities - Organization of a workshop on the	production in Beriii		
pesticides promoted		specialized in typology and monitoring- evaluation of the FFS on the typology and the	evaluation of CEP activities and presentation of certificates to CEP facilitators for maize and market			
		basic survey for the evaluation of the actions of cotton- maize FFS, training of the facilitators on the characterization of soil and soil sample	gardening - Collection of end- of-cycle data in cotton-maize CEPs and evaluation of CEP actions: completion of quantitative and			

			collection for laboratory analysis Soil Science Water and Environment (LSSEE / INRAB) - Report on "Effect of FFS in integrated management of crop production and pests: Tomato and onion case in the municipalities of Karimama and Malanville - Validation of ToRs by the project technical team for the recruitment of national consultants specialized in FFS and monitoring and evaluation of FFS	qualitative surveys at the end of the cotton and maize crop production cycle in the departments of Borgou and Alibori to measure the effect of CEP - Ongoing preparation of the final report of the cotton-maize CEP activities in close collaboration with all the consultants involved in Component 4 - Development of a matrix of project communication interventions for the management of empty pesticide packaging and the promotion of biopesticides				
Component 5 – M&E								
Output 5.1: Project monitoring system providing six-monthly reports on progress in achieving project outputs and outcomes.	Inception meeting: 14-15 July 2015; PMU first meetings: 25 Nov 2015; Project planning meeting: 28-29 Jan 2016; SC meeting: 29 Décembre 2015 (24	2 <sup>nd</sup> meeting of the PMU: 22 July 2016 3 <sup>rd</sup> meeting of the PMU: 17 November 2016 4 <sup>th</sup> meeting of the PMU: 22 June 2017 2 <sup>nd</sup> session of the Steering Committee of the project: 05 January 2017 Four (4) FAO-Benin quarterly meetings	- Extraordinary meeting of the PMU: December 01, 2017 - 5 <sup>th</sup> meeting of the PMU: January 31, 2018 - 3 <sup>rd</sup> session of the Steering Committee of the Project: 06 March 2018 - FAO Country	- 6 <sup>th</sup> meeting of the PMU: 09 October 2018 - 7 <sup>th</sup> meeting of the PMU: 06 March 2019 - 4 <sup>th</sup> session of the Steering Committee of the Project on June 06, 2019 - 2018 Assessment Workshop and 2019 Activity Planning of	- 8 <sup>th</sup> meeting of the PMU: September 25, 2019 - 9 <sup>th</sup> meeting of the PMU: February 11, 2020 - FAO-Benin 2019 Activity Review and 2020 Activity Planning Workshop - Two (02) quarterly meetings to present the activities carried out by FAO-Benin projects	- Quarterly meetings of FAO-Benin to present the activities carried out by the projects - FAO-Benin workshop to review activities carried out in 2020 and planning of 2021 activities, March 4 and 5, 2021 - Zoom conference sessions with the technical team of the	100%	

	participants, 4	on the	Office 2018 Activity	FAO-Benin	project, Veolia and FAO-		
	women)	implementation of	Planning	- Two (02) quarterly	Benin and the		
	Women	projects	Workshop: 1-2	meetings of FAO-	Coordinator for the		
		projects	February 2018	Benin to present	execution and		
			- Two (02)	the activities carried	monitoring of the		
			quarterly meetings	out by the projects	contract for securing		
			of FAO-Benin to	out by the projects	obsolete pesticides		
			present the		- Preparation of		
			activities carried		implementation reports		
			out by the projects		for the activities of the		
			, , ,		Coordinator's contract		
					for the periods of: May-		
					July 2020, August-		
					November 2020,		
					November-December		
					2020, January-March		
					2021 and April-June		
					2021		
					- Preparation of mission		
					reports on activities		
					carried out by the		
					project		
Output 5.2:	-	-	- Mid-term	-	- Final evaluation of the	100%	
Mid-term			evaluation of the		project in November		
and final			project, from 19 to		2020:		
evaluation			28 February 2018		- Interview of the final		
reports					project evaluation team		
					with the Coordinator,		
					the Program Officer of		
					FAO-Benin and the		
					national consultant in		
					PO securing (ex FAO		
					Project Coordinator		
					GCP/BEN /055/JPN)		
					about the global		
					implementation of the		
					FAO project		
					GCP/BEN/056/GFF and		
					its anchoring with the		
					FAO project		
					GCP/BEN/055/JPN		

- Individual interview of the Coordinator with the final evaluation team of the project on the implementation of activities, project	
the final evaluation team of the project on the implementation of activities, project	
team of the project on the implementation of activities, project	
the implementation of activities, project	
activities, project	
management,	
difficulties and	
approaches to	
solutions.	
- Organization of	
individual interviews of	
the evaluation team	
with the stakeholders	
and beneficiaries of the	
project on their	
involvement at the	
project level	
- Zoom conference of	
the final evaluation	
team of the project with	
BH, FAO-Benin, FAO-	
Rome, GEF FAO-Rome	
Unit and the	
Coordinator on the	
feedback of conclusions	
and recommendations	
from the final	
evaluation of the	
project project	
Conclusions:	
- The project responded	
well to the strategic	
priorities of the	
Government, FAO and	
GEF, and to the needs	
of safeguarding the	
environment and	
limiting the exposure of	
populations to the risks	
and dangers associated	

<b>.</b>	1	T	
			with the management
			and inappropriate use
			of chemical pesticides
			and related wastes
			- Beyond the objective
			of eliminating 213
			tonnes of POP, PO and
			related waste which is
			on the way to being
			reached, the project has
			strengthened national
			capacities for the
			management and
			rational, safe use of
			hazardous pesticides
			and proposed a number
			of alternative systems
			based on integrated
			management of
			production and pests
			(IPPM), thus stimulating
			the appropriation of the
			results generated by the
			Government for
			dissemination on a
			larger scale.
			- In general, the project
			was well managed, but
			delays in some
			procurement or
			recruitment processes
			negatively affected its
			efficiency during
			implementation.
			- The regulations, plans,
			strategies and
			technologies developed
			and tested by the
			project are within the
			reach of the different

	1				
				categories of	
				beneficiaries, and are	
				reproducible thanks to	
				the many capacities	
				developed by the	
				project.	
				- Focused on	
				environmental and	
				social protection, the	
				project achieved its	
				objectives, but the	
				gender dimension could	
				be better taken into	
				account during the	
				design and	
				implementation of the	
				project, starting from	
				an analysis of the	
				specific needs of	
				women.	
				Recommendations :	
				- The design of	
				reasoned management	
				projects for chemical	
				pesticides and research-	
				action on alternatives	
				by FAO and the	
				Government must	
				integrate all the actors	
				in this value chain and	
				provide sufficient	
				incentives to support	
				the adoption of	
				technologies and good	
				proposed practices. As	
			1		
				such, it is necessary to	
				such, it is necessary to create a partnership	
				such, it is necessary to create a partnership framework with AIC and	
				such, it is necessary to create a partnership	

		the production,
		availability and
		accessibility of quality
		biopesticides, and to
		create a niche market
		for them. products
		obtained from
		production systems
		with low use of
		synthetic inputs.
		- FAO must promote the
		ownership and
		consolidation of the
		achievements and
		results generated by the
		project and the
		institutionalization of
		the CEP approach by
		the Government.
		- FAO must support the
		Government to ensure
		the management of the
		knowledge generated
		by the project, the
		implementation of the
		Communication
		Strategy, the
		development of new
		labels and ultimately,
		contribute to the
		visibility and
		sustainability of the
		project.
		- FAO should improve
		its mechanism for
		mainstreaming
		concerns related to
		gender and vulnerable
		groups and mobilizing
		co-financing during the

						design and implementation of similar projects.		
Output 5.3: Project "best- practices" and "lessons- learned" disseminate d via publications and other means to be identified in the communicat ion strategy.	Inception Workshop – coverage Media promotion of inventory: articles in Le Matinal, La Fraternité et Le Quotidien (16/9/15)	Publication in the newspaper "The Nation" of calls for candidates for the recruitment of national project consultants Training of facilitators and associated FFS vegetable crops: publication of an article in the newspaper "The Nation" and on the FAO online site, interview of the Project Coordinator in the newspaper "La nouvelle Tribune"	Completion of a poster on empty pesticide packaging	- Publication of an article on the decontamination of the polluted site of Bohicon and the cotton-maize CEPs in the quarterly newsletter of the FAO Representation in Benin/July-September 2018 - Kandi and Banikoara (Alibori Department) broadcast radio messages about triple rinsing and empty pesticide packaging management - draft of project factsheet - poster on management of empty pesticide containers for farmers	Delivery of a summary case study: "Promotion of alternatives to synthetic chemical pesticides: neem oil and food spray- a combination for the sustainable production of cotton in Benin"		100%	

#### 4. Information on Progress, Outcomes and Challenges on Project Implementation

#### Please briefly summarize main progress achieving the outcomes (cumulative) and outputs (during this fiscal year):

C1: 1<sup>st</sup> export of six (06) containers of obsolete pesticide waste for a total quantity of **71,57 tonnes** achieved in March 2021. Five (05) other containers of **57,267 tonnes of PO waste** are already ready for export. Completing the excavation operation for **21,503 tonnes** of dieldrin and aldrin sludge and contaminated soil from the polluted Djassin site.

**C2:** Recommendations for treatment of wastewater from recycling of Empty Pesticide Packaging (EVP) formulated. This was the remaining aspect element under component 2.

**C5:** A final evaluation of the project was conducted leading to a final project report with conclusions and recommendations.

#### What are the major challenges the project has experienced during this reporting period?

- The original shipping route chosen by the disposal company (Veolia) has undergone a change. As a result, the ship must now pass through Togo, which is not on the list of transit countries in the Basel notification granted to Veolia. Consequently, no waste export can be carried out before June 30, 2021, date of the end of the 1<sup>st</sup> notification. A new request for 2<sup>nd</sup> Basel notification had to be launched with Togo as the transit country. This 2<sup>nd</sup> notification covers the period from May 15, 2021 to January 01, 2022 and will allow the export of the rest of the obsolete pesticides.
- The Covid 19 pandemic has caused a considerable delay in the recruitment of Veolia, an international company specializing in the securing and disposal of obsolete pesticides but also in the manufacture and import of materials and equipment for safeguarding the waste. It is also the basis for the total closure of airports, thus causing a significant delay for Veolia's trip to Benin for the practical phase of operations to secure obsolete pesticides.

#### Development Objective (DO) Ratings, Implementation Progress (IP) Ratings and Overall Assessment

Please note that the overall DO and IP ratings should be substantiated by evidence and progress reported in the Section 2 and Section 3 of the PIR. For DO, the ratings and comments should reflect the overall progress of project results.

	FY2021  Development  Objective rating <sup>16</sup>	FY2021 Implementation Progress rating <sup>17</sup>	Comments/reasons <sup>18</sup> justifying the ratings for FY2021 and any changes (positive or negative) in the ratings since the previous reporting period
Project Manager / Coordinator	Satisfactory	Satisfactory	The activities of components 2, 3 and 4 are finalized. The activities of component 1, in particular the securing and disposal of obsolete pesticides, has seen considerable progress through the securing of stocks of obsolete pesticides (167,714 tonnes) from all priority stores and the evacuation of 71,57 tonnes for disposal in Switzerland.
Budget Holder	Satisfactory	Satisfactory	The planning of the operation to secure and eliminate obsolete pesticides has not been respected for various reasons including the Covid-19 pandemic. We hope that everything will be done so that this delicate operation will be executed before the end of the project.
GEF Operational Focal Point	Satisfactory	Satisfactory	Component 1 of the project, in particular the activities for securing and eliminating obsolete pesticides, are normally carried out with a first export of obsolete pesticide waste for incineration in Switzerland. The schedule for carrying out these activities was disrupted by the COVID-19 pandemic, which caused considerable delays in the implementation of said activities. Activities to secure and dispose of obsolete pesticides are continuing and should be finalized before the end of the project scheduled for September 30, 2021. In view of the level of execution of activities for securing and eliminating obsolete pesticides, the main objective of the project, the project is deemed satisfactory.

<sup>&</sup>lt;sup>16</sup> **Development/Global Environment Objectives Rating** – Assess how well the project is meeting its development objective/s or the global environment objective/s it set out to meet. For more information on ratings, definitions please refer to Annex 1.

<sup>&</sup>lt;sup>17</sup> **Implementation Progress Rating** – Assess the progress of project implementation. For more information on ratings definitions please refer to Annex 1.

<sup>&</sup>lt;sup>18</sup> Please ensure that the ratings are based on evidence

Lead Technical Officer <sup>19</sup>	Satisfactory	Satisfactory	The project has advanced satisfactorily and in its final year of implementation. Disposal activities are at the final stage of completion through the contract with the waste management company recruited by FAO. The project surpassed its targets regarding the development and implementation of remediation strategies and quantification of Risks from 2 highly contaminated sites. Stakeholders are fully engaged regarding all components of the project.  While the project is expected to achieve its objectives, the current situation with the COVID-19 pandemic caused delays in implementation. The project was extended until end of September 2021 to ensure project activities are completed and outcomes are achieved.
FAO-GEF Funding Liaison Officer	Satisfactory	Satisfactory	The project has delivered on most of the key results. The disposal operations will likely be completed within the remaining months.

<sup>&</sup>lt;sup>19</sup> The LTO will consult the HQ technical officer and all other supporting technical Units.

### 5. Environmental and Social Safeguards (ESS)

#### <u>Under the responsibility of the LTO (PMU to draft)</u>

This section of the PIR describes the progress made towards complying with the approved ESM plan, when appropriate. Note that only projects with <u>moderate</u> or <u>high</u> Environmental and Social Risk, approved from June 2015 should have submitted an ESM plan/table at CEO endorsement. This does not apply to <u>low</u> risk projects. Please add recommendations to improve the implementation of the ESM plan, when needed.

Social & Environmental Risk Impacts identified at CEO Endorsement	Expected mitigation measures	Actions taken during this FY	Remaining measures to be taken	Responsibility		
ESS 1: Natural Resource Management						
	NA					
ESS 2: Biodiversity, Ecosystems and Natural Habita	ts					
	NA					
ESS 3: Plant Genetic Resources for Food and Agricu	lture					
	NA					
ESS 4: Animal - Livestock and Aquatic - Genetic Resources for Food and Agriculture						
	NA					
ESS 5: Pest and Pesticide Management						
	See risk mitigation plan below.					
<b>ESS 6: Involuntary Resettlement and Displacement</b>						
	NA					
ESS 7: Decent Work						
	NA					
ESS 8: Gender Equality						
	NA					
ESS 9: Indigenous Peoples and Cultural Heritage						
	NA					
New ESS risks that have emerged during this FY						
	NA					

In case the project did not include an ESM Plan at CEO endorsement stage, please indicate if the initial Environmental and Social Risk classification is still valid; if not, what is the new classification and explain.

Overall Project Risk classification   Please indicate if the Environmental and Social Risk classification is still valid <sup>20</sup> .			
(at project submission)	If not, what is the new classification and explain.		
Medium-High	Still valid.		

Please report if any grievance was received as per FAO and GEF ESS policies. If yes, please indicate how it is being/has been addressed.
None.

#### 6. Risks

#### **Risk ratings**

**RISK TABLE** 

The following table summarizes risks identified in the **Project Document** and reflects also **any new risks** identified in the course of project implementation. Please make sure that the table also includes the Environmental and Social Management Risks captured by the Environmental and social Management Risk Mitigations plans. The <u>Notes</u> column should be used to provide additional details concerning manifestation of the risk in your specific project, **as relevant**.

<sup>&</sup>lt;sup>20</sup> **Important:** please note that if the Environmental and Social Risk classification is changing, the ESM Unit should be contacted and an updated Social and Environmental Management Plan addressing new risks should be prepared.

	Risk	Risk rating <sup>21</sup>	Mitigation Actions	Progress on mitigation actions <sup>22</sup>	Notes from the Project Task Force		
Gen	General project risks						
1	Insufficient funds dedicated to the safeguarding of high-priority sites, and the disposal of POPs.	Low		Budget for safeguarding and disposal POPs and obsolete pesticides is available and funded by GEF. This activity is co-funded by CropLife	Budget available for more than 200 tonnes of obsolete pesticides and 2 sites remediated		
2	Institutional arrangements pose challenges to project execution.	Low		Project focal points have been designated at the level of the Ministry of Agriculture and the Ministry of Health. These focal points are members of the Project Management Unit and participate in the realization of project activities.	All ministries (Health, Agriculture and Environment) have coordinated well during project implementation		
3	Likelihood of political instability	Low		No political instability was observed during the implementation of the project			
4	Extreme weather conditions such as torrential rain and floods	Low to medium		Areas where stores containing obsolete pesticides and contaminated soil are located are not flood-prone areas			

<sup>&</sup>lt;sup>21</sup> GEF Risk ratings: Low, Moderate, Substantial or High

<sup>&</sup>lt;sup>22</sup> If a risk mitigation plan had been presented as part of the Environmental and Social management Plan or in previous PIR please report here on progress or results of its implementation. For moderate and high risk projects, please Include a description of the ESMP monitoring activities undertaken in the relevant period".

	Risk	Risk rating <sup>21</sup>	Mitigation Actions	Progress on mitigation actions <sup>22</sup>	Notes from the Project Task Force
Gen	eral project risks				
5	Environmental contamination from leakage of POPs and other obsolete pesticides due to poor conditions of containers	High	Management measures to be included in the EMP include field procedures to ensure no further leakage occurs during the project activities. Chemical stores will be ranked according to leakage risk at the beginning of the project, and will be safe-guarded as a matter of priority.	Mitigation measure implemented	The security measures are provided for in the EMP and the national team will ensure strict compliance by the international company
6	Continued government centralised procurement of pesticides through parastatal companies will give rise to re-accumulation of obsolete stocks	High	As part of component 3, government stakeholders will be engaged to develop pesticide policies that are more responsive to user demands and avoid largescale procurements	The Government has realized the danger of obsolete pesticides.  Thus, any import of pesticides is subject to a prior import authorization and takes into account the remaining stock of pesticides  In addition, the control of pesticides for the cotton season takes into account the residual stock of pesticides of the previous season	
7	Lack of appropriate storage for safeguarded stocks	Medium		Following the liquidation of SONAPRA, the project could not benefit from the SONAPRA department store as an intermediate/final storage center (CSI/F) for secure pesticide stocks because this store currently contains inputs. Nevertheless, the SONAPRA Court has been selected as the CSI/F platform for secure obsolete pesticide stocks	Relevant stores identified in EMP for centralisation of stocks

	Risk	Risk rating <sup>21</sup>	Mitigation Actions	Progress on mitigation actions <sup>22</sup>	Notes from the Project Task Force			
Gen	General project risks							
8	Incidents during safeguarding	High	All staff /enterprise of the project engaged in safeguarding operations will have been trained and will be provided with protection gear by the international contractor. Strict application of measures included in Environmental Management Plan (EMP) and Health and Safety Plans.	Personal protective equipment specification available. Health and safety plans in EMP available for minimising incidents and worker exposure	Safety measures for each obsolete pesticide safety operation are provided for in the EMP and the Health and Safety Environment Plan. The national team will ensure strict compliance with these measures by the international company			
9	Delays in the procurement of equipment necessary for the disposal	Low		The acquisition of equipment is subject to the recruitment of the international company by FAO-Rome and the length of the procurement procedures				
10	Government authorities disagree with the strategy for the reduction of risks posed by contaminated sites	Medium		The Specific Environmental Management Plans (EMP) of the contaminated sites were cleared by the Benin Environmental Agency (ABE) before the implementation of site remediation operations.	All EMP (obsolete pesticides and contaminated sites) have been cleared by the ABE			
11	Delays in administrative procedures/decisions as regards transport of obsolete stocks	Medium		The preparation of notification documents for transit countries and the processing of these documents in accordance with the procedures in force at the national level lasts 2 to 3 months				
Con	nponent 2: Development and implementa	tion of empty pe	esticides containers management syste		<u> </u>			

	Risk	Risk rating <sup>21</sup>	Mitigation Actions	Progress on mitigation actions <sup>22</sup>	Notes from the Project Task Force			
Gen	General project risks							
12	Technical staff being exposed to pesticides during collection and repacking of empty containers	Low to medium		Training on triple rinsing undertaken and treatment of containers by Bethesda (NGO) planned to minimise exposure	Training and awareness sessions on triple rinsing and rational management of empty pesticide packaging to facilitators of FFS, producers and agricultural communities.			
13	Lack of stakeholder involvement in proper disposal of empty containers and in the establishment of a sustainable system for the management of wastes.	Low		In addition to the FFS producers from the villages of the Borgou and Alibori departments, the project involved producers and actors of the national pesticide supply system for the implementation of the pilot plan for the management of empty pesticide packaging.				
Con	ponent 3: Strengthening the regulatory f	ramework and in	nstitutional capacity for the sound man	agement of pesticides				
14	Delayed adoption of updated legislation. Law making (including promulgation of regulations ) is a prerogative of the State and will depend on the will of the legislature or law-making authority to enact legislation	Medium		Decrees have been issued by the President of the Republic for better pesticide management				
Com	Component 4: Promotion of alternatives to POPs and other hazardous chemical pesticides							
15	Low interest in adopting alternative technologies by producers	Low		The final evaluation of the FFS revealed that most of the CEP producers have tested and given positive feedback in using alternatives indicated as part of integrated pest management				

	Risk	Risk rating <sup>21</sup>	Mitigation Actions	Progress on mitigation actions <sup>22</sup>	Notes from the Project Task Force
Ger	neral project risks				
16	Climate Change Changes in the climate will impact on pest distribution, activity, seasonal appearance, as well as impact on the behaviour of chemicals in the environment.	Medium		Integrated pest management methods were the subject of a training module during the animation of FFS	

### **Project overall risk rating** (Low, Moderate, Substantial or High):

FY2020	FY2021	Comments/reason for the rating for FY2021 and any changes (positive or negative) in the rating since the previous
rating	rating	reporting period
Low	Moderate	Although most of the activities are done, there is still a chance that the COVID-19 pandemic could still affect the final disposal operations – e.g. disposal team not being able to travel due to restrictions.

# 7. Adjustments to Project Strategy – Only for projects that had the Mid-term review (or supervision mission)

If the project had a MTR review or a supervision mission, please report on how the MTR recommendations were implemented as indicated in the Management Response or in the supervision mission report.

MTR or supervision mission recommendations	Measures implemented
Recommendation 1:  Develop and implement a communication strategy to improve visibility and inform the public about the efforts being made to solve a public health and environmental problem	A communication strategy implemented for the project on the promotion of effective alternatives and on the impact of empty pesticide packaging on human health and the environment in order to reduce the risks of toxicity linked to human health and the environment.  During the implementation of the activities of the different components, awareness, education and information sessions were held with the partners and beneficiaries of the project during meetings, workshops and through communication channels such as posters, radios, newspapers, television, internet and good practices at Farmer Field School (FFS) level
Recommendation 2: Hold regular weekly or at least monthly meetings of the Project Management Unit (PMU) to enable members to monitor project implementation and effectively facilitate and accelerate the implementation of activities	During the 1st meeting of the Project Management Unit (PMU), PMU members decided on a 4-month period to discuss the activities carried out and the annual work plans.  However, actions such as reports of bimonthly activities carried out are made to members in order to ensure the effective implementation of the annual work plan approved by the PMU.
Recommendation 3:  Design and rapidly implement a monitoring and evaluation system to facilitate instant monitoring of the remaining activities' implementation.	An effective project monitoring and evaluation mechanism is set up at FAO-Benin to monitor activities carried out in the field for better achievement of project results. The evaluation makes it possible to assess the progress of the project, to see if the planned results are achieved and the direct effects targeted in the logical framework of the project and to promote the dissemination of the results.
Recommendation 4:  Speed up the implementation of activities that have been significantly delayed, in particular those related to the implementation of a system for empty pesticide container management.	A system of collection, triple rinsing, safe storage and recycling of empty pesticide packaging in areas of large cotton production (Borgou and Alibori departments) has been set up and is being consolidated through the sensitization of cotton and maize producers and training on the triple rinsing of empty pesticide packaging to reduce the risks of human and environmental toxicity associated with the use of these packaging.  A memorandum of understanding was signed with the NGO Bethesda to set up the pilot plan for managing Empty Pesticide Packaging (EVP) through a mechanism for collecting, storing and processing/recycling EVP. The implementation of this memorandum of understanding made it possible to recover through the pilot plan 5,465 EVP from the departments of Borgou and Alibori which were treated and recycled into finished products such as paving stones, bricks and flower pots.

Recommendation 5:	Better-structured system of accountability for the activities of the various
Simplify procedures and avoid	project components to reduce the delay in processing reports and other
delays in the approval of pre- requisite documents submitted to	project documents was put in place.
the FAO Pesticide Risk Reduction Group and the Benin Environmental Agency (ABE).	Documents were submitted for validation to the ABE as soon as possible in order to reduce the time taken to review documents for validation.
Recommendation 6: Involve women more in the implementation of project activities, particularly in Farmer Field Schools.	The installation of cotton-maize FFS saw an increase in terms of women's involvement, i.e. 38.46% compared to the market gardening FFS which had only two (02) women among the 10 facilitators (20%) i.e. an increase of 18.46% at the level of the facilitators responsible for the animation of the FFS The involvement of women in the FFS increased from 4% in the market gardening FFS to 20% in the cotton-maize FFS, i.e. an increase of 16%
Recommendation 7:  Design an exit strategy involving key partners to ensure the continuation of activities and the sustainability of achievements after the end of the project.	Full involvement of the Plant Protection Service (SPV), the State structure responsible for the management of pesticides belonging to the Plant Production Directorate (DPV)/MAEP, which houses the coordination of the project. The targeted strategy will focus on raising awareness and strengthening the regulatory framework and institutional, technical and material capacities and policy makers to better manage pesticides and prevent future accumulations of obsolete pesticides. The sustainability of the achievements obtained by the project must be integrated into the activities of the Plant Protection Service to improve the national pesticide management system.  The SPV will rely at the field level on the decentralized structures of the MAEP that are the Departmental Directorate of Agriculture, Livestock and Fisheries (DDAEP) and the Territorial Agricultural Development Agency (ATDA).

#### Adjustments to the project strategy.

Pleases note that changes to outputs, baselines, indicators or targets cannot be made without official approval from PSC and PTF members, including the FLO. These changes will follow the recommendations of the MTR or the supervision mission.

Change Made to	Yes/No	Describe the Change and Reason for Change
Project Outputs	No	
Project Indicators/Targets	No	

#### **Adjustments to Project Time Frame**

If the duration of the project, the project work schedule, or the timing of any key events such as project start up, mid-term review, final evaluation or closing date, have been adjusted since project approval, please explain the changes and the reasons for these changes. The Budget Holder may decide, in consultation with the PTF, to request the adjustment of the EOD-NTE in FPMIS to the actual start of operations providing a sound justification.

Change	Describe the Change and Reason for Change			
Project extension	Original NTE: 21/03/2021	Revised NTE: 30/09/2021		
	Justification: The Covid 19 pandemic caused the total closure of airports causing a significant delay for Veolia's (disposal company) trip to Benin for the practical phase of operations to secure and remove obsolete pesticides. It also caused a considerable delay in the manufacture and import of materials and equipment for securing obsolete pesticides.  In view of the above, the project was extended to 30 September 2021.			

# 8. Stakeholders Engagement

List of stakeholders	Category	Engagement mechanism		
Direction de la Production Végétale/ Ministère de l'Agriculture, de l'Elevage et de la Pêche (MAEP)	Government	The MAEP is the executing agency of the project through the Directorate of Plant Production, which houses the project		
Direction de la Qualité, des Innovations et de la Formation Entrepreneuriale (DQIFE)/MAEP	Government	The DQIFE is involved at the level of component 4 of the project notably in the activities of FFS for the promotion of alternatives to POPs and extremely dangerous chemical pesticides		
Agence Béninoise de la Sécurité Sanitaire des Aliments (ABSSA)/MAEP	Government	The Benin Food Safety Agency is involved at the project level through the Central Food Safety Control Laboratory for the analysis of soil samples contaminated with pesticides		
Direction Générale de l'Environnement et du Climat (DGEC)/Ministère du Cadre de Vie et du Développement Durable	Government	The Directorate General for Environment and Climate through the project focal point participates in the execution of the activities and the management of the project.  The Bâle Convention will support the project in the administrative procedures for the transport of obsolete POPs and pesticides for disposal abroad		
Agence Béninoise pour l'Environnement (ABE)/Ministère du Cadre de Vie et du Développement Durable	Government	The Benin Environmental Agency (ABE) will participate in the implementation of the safeguarding and disposal of obsolete POPs and other pesticides and the remediation of heavily contaminated sites.		
Direction Nationale de la Santé Publique/Ministère de la Santé	Government	The National Directorate of Public Health through the project's focal point participates in the execution of the activities and the management of the project.		
Institut National des Recherches Agricoles du Bénin (INRAB)/MAEP	Government	INRAB intervenes mainly at the project level in the collection of typology data and basic surveys, monitoring and evaluation at the level of farmer's fields school. It will also support the project at the pre-registration level of biopesticides tested by IITA at the farmer field fields for registration		
Direction Départementale de l'Agriculture, de l'Elevage et de la Pêche (DDAEP)	Government	The DDAEPs of contaminated departments and depots /stores of POP stocks and obsolete pesticides are involved through their phytosanitary surveillance structure during the execution of the activities related to the investigation of contaminated sites and to the operations of census of deposits/stores stocks of POPs and obsolete pesticides. They are also involved in the decontamination of polluted sites and the safeguarding and disposal of obsolete pesticides.  DDAEP Borgou and Alibori are strongly involved in the management of empty pesticide packaging (component 2) and the promotion of alternatives to POPs and extremely		

		dangerous chemical pesticides (component 4) DDAEP Zou and Alibori are involved in the decontamination of polluted sites of Bohicon and Malanville	
Agence Territoriale de Développement Agricole (ATDA)/MAEP	Government	The ATDA are involved at the level of component 4 of the project notably in the activities of FFS for the promotion of alternatives to POP and extremely dangerous chemical pesticides	
Organisation Béninoise pour la Promotion de l'Agriculture Biologique (OBEPAB)	NGO	OBEPAB participates in the project activities by encouraging alternatives for pest control based on their experience, impact monitoring, awareness, education and communication strategies in cotton producing areas.	
Institut International d'Agriculture Tropicale (IITA)	International Institute	IITA supports the project in promoting tried and tested alternatives at the farmer field fields to reduce the dependence of cotton and market gardening producers on highly dangerous synthetic chemical pesticides	
Communautés agricoles	Farmer Organization	Agricultural communities are the key participants in the project and engaged through the communication strategy, their active participation at the level of farmers' fields and typological studies on alternatives aimed at reducing the use of synthetic chemical pesticides.	
NGO Bethesda	NGO	Bethesda is involved in component 4 of the project through an LoA signed with the FAO for the collection, grouping, transport, treatment and recycling of empty pesticide packaging in the departments of Borgou and Alibori	

#### 9. Gender Mainstreaming

Information on Progress on gender-responsive measures as documented at CEO Endorsement/Approval in the gender action plan or equivalent (when applicable)

The national project coordinator is a woman and she encourages participating women on steering committees (Project Steering Committee and Project Management Unit) and key stakeholder events. Emphasis is also placed on the participation of rural women in awareness-raising and education meetings on exposures related to the risks associated with contamination at contaminated sites and pesticides and through the re-use of empty packaging of pesticides.

By removing and addressing sources of POPs contamination in communities, the project will help reduce the exposure of women, children and other vulnerable groups. Partnerships with civil society (for example, the NGO that already removes containers from the use of public health from traffic) explicitly target women in their advocacy and communication efforts.

Regarding the participation of women in the Farmer Field Schools (FFS), 46 women took part in the activities in the 10 FFS market gardening of  $1^{st}$  and  $2^{nd}$  years and 37 women in the 13 FFS cottonmaize of  $1^{st}$  and  $2^{nd}$  year.

As part of the implementation of the pilot plan for the management of empty pesticide packaging in the departments of Borgou and Alibori, 200 producers including two (02) groups of 22 women were trained and sensitized on triple rinsing and the management of empty pesticide packaging in the departments of Borgou and Alibori.

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#### 10. Knowledge Management Activities

# Knowledge activities / products (when applicable), as outlined in knowledge management approved at CEO Endorsement / Approval

Safeguarding, disposal POPs and obsolete pesticides and cleaning up heavily contaminated sites help protect human health and the environment by reducing the risk of toxicity due to contamination of soil and water. Similarly, the project carried out the collection, treatment and recycling of empty pesticide packaging in the departments of Borgou and Alibori to prevent the reuse of empty pesticide packaging which poses risks of toxicity to human health and the environment.

The project developed a communication strategy on the impact of empty pesticide packaging and the promotion of alternatives to conventional chemical pesticides. The implementation of this plan has included the following:

- 5 radio spots on risks of pesticides and risk reduction measures
- 1 manual on inspection of pesticides
- 3 curricula on farming and integrated pest management for cotton, maize and vegetables
- 1 poster on management of empty pesticide containers management for farmers
- 1 brochure on biopesticide (in progress)
- 1 A success story from the project on the IPM FFS was delivered The case study summary sent is titled "Promotion of alternatives to synthetic chemical pesticides: neem oil and food spray- a combination for the sustainable production of cotton in Benin"
- 1 publication on the FAO-Benin website of an article on the training of phytosanitary inspectors on the pesticide inspection and control manual.

http://www.fao.org/benin/actualites/detail-events/fr/c/1207578/

1 project factsheet (under development)

#### 11. Indigenous Peoples Involvement

#### Are Indigenous Peoples involved in the project? How? Please briefly explain.

The agricultural populations, in particular the cotton producers who are bariba, dendi, and other ethnic groups of the Benin cotton basin, are the key participants at the same time as the beneficiaries, through the reduction of exposure to pesticides, and will be engaged through the communication strategy, FFS and typological studies concerning alternatives. Women and children of agricultural producers benefit from reduced pesticide exposure, through improved management of pests and pesticides and awareness of the risks posed by pesticides. In particular, cotton producers have used proven biopesticides as less harmful alternatives for integrated cotton pest management to reduce the use of hazardous chemical pesticides. Market gardeners (bariba, dendi and djerma) in the department of Malanville also participated in FFS activities to promote alternatives to conventional chemical pesticides. Urban and rural Yoruba, gon, fon, nago populations living near remediated contaminated sites and decontaminated pesticide stores are less exposed to health and environmental risks.

#### 12. Innovative Approaches

Please provide a brief description of an innovative<sup>23</sup> approach in the project / programme, describe the type (e.g. technological, financial, institutional, policy, business model) and explain why it stands out as an innovation.

- The project through component 4 "Promotion of alternatives to POPs and other dangerous chemical pesticides" introduced integrated pest management (IPM) in Borgou and Alibori from 2016 to 2019 through running farmer field schools for 400 vegetable (tomato, onion) and cotton-maïze producers (total). In the frame of IPM a number of less toxic/non toxic alternatives to pesticides like the aqueous extract of Neem and the aqueous extract of Hyptis suaveolens, as well as the combination of food extracts were thought to use by farmer, including the ecological management of their fields including for the new fall armyworm on maize and for cotton pests against which business as usual includes calendar treatment with conventional pesticides. These were integrated with the production of healthy plants including rotation and organic matter that are not innovations per se but they are social innovations for the country. The whole component has therefore brought technical and social innovations in the context of Benin, including protecting farmers from risks of pesticides.
- Through component 2 "Pilot container management" a pilot has recycled empty pesticide
  containers into bricks which is one of the few examples of successful recycling model of
  pesticide waste in Benin.
- Through component 3 Technical improvement at the level of phytosanitary inspectors for the control and inspection of pesticides. It then became clear that most phytosanitary inspectors at the national level have received notions and are edified about the inspection and sampling of pesticides during controls. The two (02) official entry points for pesticides (Port and airport) were equipped with materials and equipment for the collection, collection, handling and conservation of pesticides. All of this allowed for better organization, planning and execution in terms of inspection, control and management of pesticides.

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<sup>&</sup>lt;sup>23</sup> Innovation is defined as doing something new or different in a specific context that adds value

#### 13. Possible impact of the Covid-19 pandemic on the project

Please indicate any implication of the Covid-19 pandemic on the activities and progress of the project. Highlight the adaptative measures taken to continue with the project implementation.

The Covid 19 pandemic has caused a considerable delay in the recruitment of Veolia, an international company specializing in the securing and disposal of obsolete pesticides but also in the manufacture and import of materials and equipment for securing obsolete pesticides. It is also the basis for the total closure of airports, thus causing a significant delay for Veolia's trip to Benin for the practical phase of operations to secure obsolete pesticides.

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# 14. Co-Financing Table

Sources of Co- financing	Name of Co- financer	Type of Co- financing	Amount Confirmed at CEO endorsement / approval	Actual Amount Materialized at 30 June 2021	Actual Amount Materialized at Midterm <sup>24</sup> or closure	Expected total disbursement by the end of the project
Government	Ministry of Agriculture (ABSSA)	In-kind	300,000	281,250		300,000
Government	Ministry of Agriculture (ABSSA)	Grant	4,250,000	3,984,375		4,250,000
Government	Ministry of Agriculture (DAGRI)	In-kind	500,000	468,750		500,000
Private Sector	CropLife International	Grant	868,500	568,500		868,500
Private Sector	CropLife International	In-kind	60,000	56,250		60,000
Civil society	OBEPAB	Grant	500,000	468,750		500,000
Civil society	OBEPAB	In-kind	500,000	468,750		500,000
Research Institute	IITA	Grant	300,000	281,250		300,000
GEF Agency	FAO	Grant	3,152,125	2,955,118		3,152,125
GEF Agency	FAO	In-kind	150,000	140,625		150,000
		TOTAL	10,580,625	9,673,618		10,580,625

 $<sup>^{24}</sup>$  This was not confirmed by the evaluation team even though the project team provided information.

Please explain any significant changes in project co-financing since Project Document signature, or differences between the anticipated and actual rates of disbursement

#### **Annex 1. – GEF Performance Ratings Definitions**

Development/Global Environment Objectives Rating — Assess how well the project is meeting its development objective/s or the global environment objective/s it set out to meet. DO Ratings definitions: Highly Satisfactory (HS - Project is expected to achieve or exceed all its major global environmental objectives, and yield substantial global environmental benefits, without major shortcomings. The project can be presented as "good practice"); Satisfactory (S - Project is expected to achieve most of its major global environmental objectives, and yield satisfactory global environmental benefits, with only minor shortcomings); Moderately Satisfactory (MS - Project is expected to achieve most of its major relevant objectives but with either significant shortcomings or modest overall relevance. Project is expected not to achieve some of its major global environmental objectives or yield some of the expected global environment benefits); Moderately Unsatisfactory (MU - Project is expected to achieve of its major global environmental objectives with major shortcomings or is expected to achieve only some of its major global environmental objectives or to yield any satisfactory global environmental benefits); Highly Unsatisfactory (HU - The project has failed to achieve, and is not expected to achieve, any of its major global environment objectives with no worthwhile benefits.)

Implementation Progress Rating — Assess the progress of project implementation. IP Ratings definitions: Highly Satisfactory (HS): Implementation of all components is in substantial compliance with the original/formally revised implementation plan for the project. The project can be resented as "good practice". Satisfactory (S): Implementation of most components is in substantial compliance with the original/formally revised plan except for only a few that are subject to remedial action. Moderately Satisfactory (MS): Implementation of some components is in substantial compliance with the original/formally revised plan with some components requiring remedial action. Moderately Unsatisfactory (MU): Implementation of some components is not in substantial compliance with the original/formally revised plan. Highly Unsatisfactory (HU): Implementation of none of the components is in substantial compliance with the original/formally revised plan.