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Reducing the degradation of mangroves and other ecosystems through improved fish smokers and stoves

REFACOF (Reseau des Femmes Africaines pour la Gestion Communautaire des Forets)

Document Prepared By *W+ team/ WOCAN*

Project Name	Reducing the degradation of mangroves and other ecosystems through improved fish smokers and stoves
W+ Project ID	W07
Project Start Date	September 2019
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1. DESCRIPTION OF WOMEN'S EMPOWERMENT ACTIVITIES

1.1 Summary Description of the Women's Empowerment Activities Implemented

a) The location of the Project.

The project is implemented in Manoka, an island located in the coastal region of Cameroon, in the Douala Vith(6th) district where fishery sector is the main source of income for the population. The main activities of the population is fishing, fish sales and smoking. Manoka is divided into fishing camps. Among them, Dahomey, Plateau, Sandje, Nyangadou are the locations where fish smoking is the main women's activity.

b) *Conditions prior to the project's implementation*

With a surface of 232,723 ha (Cam-Eco, 2014), Cameroon's mangrove ecosystems are among the largest in Africa thus, ranked 6th worldwide (UNEP, 2007). The coastal communities rely heavily on mangrove forests for construction and fuel wood for cooking and smoking fish.

The traditional fish smoker used by women is a simple wooden structure with a grid on which the fish are placed. The sides of the smokers are opened. The traditional fish smoking is heat drying and smoking process. With the traditional smokers, there is no temperature control or control of the smoke produced. This system requires a massive burning of wood which leads to other constraints such as deteriorating women's health. In Manoka, women spend their days smoking fish in rudimentary smokers. Aside from the long hours they spent in the smokehouse, which leave them sleepless, no time for other activities, whether reproductive or productive, they are also exposed to a number of risks. Women have a health burden from fish smoking, they complain of respiratory distress, burning eyes. Many of them have experienced skin burns.

Moreover, this traditional system does not enable control over smoke production and fire temperature. It involves the use of fuelwood more than necessary, which can lead to forest depletion.

c) *A description of the W+ domain(s) and activities/measures to be implemented by the Project.*

Time saving

The aim of implementing the improved fish smoking models is to contribute for the restoration of the mangrove by reducing the amount of wood used for smoking fish. Not only is the quantity of wood reduced, but the smoking time has also been greatly reduced.

Compared to the traditional systems, using the improved models saves time for women's users. The smoking time for 30 kg of "Bonga" fish was estimated at 22 hours on average using the traditional fish smoker. The time for smoking the same quantity of fish with the improved stove made with clay bricks is shorter (19h on average), i.e. a saving of four hours (18.2% time saving). Time saved using the metallic fish smoke model is more than this.



The time for wood collection is also reduced. Women are the ones who collect the wood they need for drying fish. They took the wood in the mangrove forest. For that, they go usually once or twice a week, in a group of 4-5 women using the boat, cut and leave the trees there. For collecting the wood, either they go back in the site where they cut the trees or pay their husband or someone else to collect the wood.

Income & Assets

Increased income is mainly due to reduced cost price, (1) reduced quantity of wood and (2) reduced time of drying.

With the improved fish smoking models, the quantity of wood is reduced by 36,36% compared to that of traditional ones. Related expenses to wood collection are the engine coast for the boat, payment of workers who collect the wood. The improved fish smokers promote fast drying and need less wood.

For the time being, women said that the smoked fish price remains the same for that smoked in traditional and the improved stove even if the quality is not the same. Compared to that from the traditional stove, fish smoked with the improved stove is an attractive color (golden color) and appearance, better flesh texture, and easy to transport without too much breakages.

One fish buyer in Dahomey said that there are different clients of the two types of fish (from traditional and improved stoves). The dried fish from improved fish smoking models are in much greater demand in the cities like Douala, Edea and Yaounde.

1.2 Project Sector(s) and Type(s)

This is an energy efficiency sector in fish smoking. The improved technology enables women fish processors to improve their income and health. It also helps to reduce the time spent in fish smoking. The W+ project will measure income and time saved generated through the implementation of improved fish smoking technology in Manoka, Cameroun .

1.3 Project Implementer

Organization name	REFACOF
Contact person	Cecile Ndjebet
Title	President & Founder
Address of Home Office and Field Office	PO Box 791. Edea Cameroon
Telephone	+237 677 86 35 99
Email	refacofsecretariat@gmail.com



Organization name	Cameroun Ecology
Contact person	Cecile Ndjebet
Title	National Coordinator
Address of Home Office and Field Office	P.O Box 791. Edea Cameroon
Telephone	+237 677 86 35 99
Email	iD.fQ.@cameroonecolog.org

1.4 Other Entities Involved in the Project's and Women's Empowerment Activities

Organization name	CIFOR
Role in the project	Funding partner
Contact person	Dr. Abdon AWONO
Title	Scientist Forest & Value chains Co-lead Refugee Hosting Engagement Landscape Programme
Address	Sustainable Value Chains and Investment, CIFOR-ICRAF Cameroon Office PO Box 16317, Yaounde, Cameroon
Telephone	+237 699 47 43 33/656 41 03 34
Email	Email a.awono@cifor-icraf.org

Organization name	Advanced Technical Teachers Training College, the University of Douala
Role in the project	Analysis of the wood-fuel chain Design and participatory construction of the fish smoking unit Performance analysis of the fish smoking unit
Contact person	Achile BIWOLE
Title	Head of Department of Forest Engineering
Address	PO BOX 1872, Douala, Cameroon
Telephone	+237 694237617
Email	achille.biwole@gmail.com

1.5 Project Activities Start Date

Project activities started in February, 2019.



1.6 W+ Domain(s) and Crediting Period(s)

<i>W+ Domain and title of related activities</i>	<i>Start Date</i>	<i>End Date</i>	<i>Crediting period: Total Years/Months</i>	<i>Any Associated Standard</i>
Time saving • Installation of improved fish smokers • Sensitization on the importance of changing fish smoking system • Training of women's members of AFUMA on how to manage the fire to reduce time • Support to women's members of AFUMA to use improved fish smokers	Feb. 2022	Feb 2024	2 years	None
Income & Assets • Sensitization on the importance of changing fish drying system • Implementation of Improved dry fish cook stoves in two fish camps • Organize women's fish dryers into an association named AFUMA • Training AFUMA members in the use of improved smoking fish systems • Monitoring women's empowerment activities	Feb. 2022	Oct. 2024	2 years	None

1.7 Description of the Project's Activities

A study carried out by CIFOR in collaboration with Cameroon Ecology and REFACOF highlighted some shortcomings in the legal and institutional framework; and assessing the mangrove wood energy supply chain revealed (1) the lack of organization and structuring of actors along the supply chain; and (2) the excessive and unsustainable cutting of the forest resource.

Results of this study led to other initiatives aimed at minimizing the negative impacts of mangrove wood exploitation in Manoka. These included reducing mangrove fuelwood demand, improving energy efficiency and women's health while increasing their income.

Income & Assets

Implementation of three improved fish smokers, two metallics and one made with clay brick in Dahomey and Nyangadou. For an efficient use of the improved fish smokers, trainings of AFUMA's (Association des Femmes Fumeuses de Manoka) members were organized.

Time saving

The shorter processing times with the improved fish processing technology frees up time for households and leisure activities and rest.



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1.8 Project's Activities Boundary and Scope

The target group of beneficiaries are women fish smokers who practice this activity as their main and only source of income. They are in majority the fishermen's wives.

The project is implemented in Manoka, an island located in the Littoral region and Wouri Division in Cameroon, between 3°51'19"N and 9°36'53"E. The site is subdivided into camps. Fish smoking is practiced by women mainly in Nyangadou, Dahomey, Sandje and Plateau camps.

As a pilot program, two improved fish smoking models, one made with clay bricks and two metallic, aiming at reducing pressure of mangrove wood, by improving the energy efficiency of fish smoking through limiting heat loss and smoke, were setting up by the project.

This initiative came along with a process of structuring and good policies, well structured. However, a very good and robust Implementation strategy should be considered. A good monitoring and evaluation strategy is also important for training women who smoke fish. The "AFUMA" association was therefore created for the objective to help unite the women and facilitate their business by promoting and adopting appropriate modern techniques. The association counts around 235 women smokers and most of them live in Dahomey and Nyangadou camps. Population is made up of different nationalities. Among them are Nigerians, Cameroonians, Malians and some Ghanaians.

The improved smoke systems were installed in camps with more women smokers, i.e. in Nyangadou and Dahomey. The clay bricks smokers and a metal oven were installed in Dahomey and the other metallic one in Nyangadou. These fish smokers were installed in AFUMA board members' kitchens.

1.9 Conditions Prior to the Project's Initiation of Activities

The majority population of Manoka depends on fishery sector for their livelihoods. The main activity of women in Manoka is fish processing. Prior to the implementation of the project, women smokers were suffering from health problems as a consequence of exposure to heat, to smoke and to sleepless. These women make extensive use of traditional smokehouses with at least 2 stoves in their kitchen to process the large quantity of fish, mainly during the peak season from November to March. Generally, women processors spend more time using the traditional smoke system. Smoked fish are sold to traders who resell them to different markets of large cities such as Yaounde and Douala or exported to Nigeria. Regarding the texture, fish flesh from traditional smokehouse are easy to crumble which impacts the price offered by the buyers.

Other impact of the use of traditional stoves includes the rapid depletion of the forest leading to environmental degradation as these models require large quantity of wood for smoking the fish. With the traditional processing technology, it is difficult to control the smoke and the temperature. It involves the use of wood more than necessary.

For their work in fish processing, women are considered as their husband's workers. They received 20% of the gross income from the sales of smoked fish. From that, they pay all the expenses related to their activities.



1.10 Compliance with Laws, Statutes and Other Regulatory Frameworks

The project is in compliance with all national laws, statutes and regulatory frameworks of Cameroon.

1.11 Project Implementer's Right to Engage in the Project

There are no barriers to REFACOF's right to engage in this Project or W+ Standard measurement process.

1.12 Other Forms of Environmental or Social Credit

The project is not seeking and has not received any form of environmental or social third- party certification.

1.13 Additional Information Relevant to the Project

None

2. GENDER ANALYSIS

The interviews for gender and stakeholder analysis with a total of 51 women were held between 10 to 18 January 2024 in each of the 4 fish camps where the monitoring was conducted:

Fish camps	Number of participants
Dahomey	25
Nyangadou	12
Plateau	6
Sandie	8
TOTAL	51

The results of the analysis are presented below. The consultations revealed an obvious gender trend in terms of activity profile. Women in Manoka take care of all activities related to fish smoking: participating in removing the fish from the net, transport fresh fish from the boat to the smoke house, placing and turning over or folding fish on the grill, while, men's work is around fishing.

Fish smoking activities vary considerably according to the weather conditions. Low season is from April to October and the peak season from November to March. The most important constraints highlighted by women fish smokers are their work burden and time poverty. During the peak season, women may stay in the smokehouse all day and night for fish smoking processing and they need more than one fish smokers per kitchen to facilitate the smoking. The improved technology could not cope with the large volumes of fresh land fish (called locally as bonga) landed during peak fish seasons.

The tables below show the extent of women's engagement in fish processing while men do the fishing and have time to rest in between. The money from smoked fish sales belongs to their husband who give them 20% back. Men pay for household's expenses like children care, food purchase, and healthcare.

If time allows, women have the responsibility to do most of the reproductive activities, household chores related to childcare, cleaning and food preparation, with little or no help from their husbands.

Community activities of women include participation in different meetings of village saving groups and training events organized at village levels. They also take part actively in celebration of important days like International Women's day, Unity Day, and Labor Day.

Table 1: Gender activity profile in fishery sector in Manoka

Fish smoking is the only economic activity of women in Manoka

Activities	Women	Men
Preparing the boat before fishing (engine installation, putting the fishing net in the boat)		XXX
Preparing the fishing net		XXX
Fishing		XXX
Removing fish from the net	X	XX
Collecting wood for the stoves	XX	X
Transport fish from the boat to the kitchen	XXX	
Cleaning the fresh fish	XXX	
Arranging fish on the smoker (trays)	XXX	
Returning fish during smoking	XXX	
Controlling smoke	XXX	
Removing the fish from the smoker and Putting dried fish into baskets	XXX	
Repairing the smokers	X	X
Sales of dried fish (contacting buyers, selling)	XXX	

Reproductive activities

Activities	Women	Men	Girls	Boys
Cooking	XX		X	
Washing dishes	XX		X	
House cleaning	X		X	X
Washing clothes	xx		x	
Childcare	XX			
Caring the elders and sick persons	XX			
Fetching water	XX		X	X
Constructing/repairing house		XX		
Constructing/Repairing kitchen		XX		

Community activities

Activities	Women	Men
Community meetings (saving group meetings)	XXX	X
Attending trainings	XX	
Conflict management	X	XX
Religious ceremonies	X	X

Time management

Time poverty

A significant time burden for women fish smokers arises from long hours processing of fish from removing the fish from fishing net, transporting the fish to the smokehouses and particularly the fish smoking. The traditional practice is labour-intensive, which places a significant time burden on women fish processors. During the peak season, men can fish 3 times a day.

Activities and time allocation for inside and outside activities vary with gender. There is a major disparity in time devoted by men and women for different activities. Time allocation also varied with seasonal variation.

Women work significantly longer hours than men. During peak season men work up to 14,5 hours a day and rest for 9.5 hours; whereas women work for 20 hours and rest only for 4 hours. Women spend less time for smoking fish during the low season and have a little more time to rest during this period.

Time	Women
5 :30	Wake up Preparing
5 :30 - 9 :00	Arranging the fish on the stoves Put the fire back (3,5 hrs)
9 :00 - 9 :30	Prepare food (0,5 hr)
9:30-10:00	Helping removing fish from the net Transport fish to the kitchen (0,5 hr)
10 :00 - 16 :00	Smoking fish (6 hrs)
16 :00-17 :00	Helping removing fish from the net Transport fish to the kitchen (1 hr)
17 :00- 21 :00	Smoking fish (4 hrs)
21 :00 - 22 :00	Rest (1 hr)
22 :00 - 02 :00	Smoking fish (4 hrs)
02 :00 - 5 :00	Sleeping (3 hrs)

Time	Men
5 :00 - 5 :30	Wake up
5 :30 - 06 :00	Preparing the boat (0,5 hr)
6 :00 - 9 :00	Fishing (3 hrs)
9 :00 - 10 :00	Removing the fish from the net Eating (1 hr)
10 :00-12 :30	Pause (2,5 hrs)
12 :30 - 16 :00	Fishing (3,5 hrs)
16 :00-17 :00	Removing the fish from the net (1 hr)
17 :00 - 21 h	Fishing (4 hr)
21 :00 - 22 :00	Removing the fish from the net Eating (1 hr)
22 :30	Sleeping (6,5 hr)

3. SELECTION OF W+ DOMAINS

W+ Domain	Benefits	Challenges/Risks
Time	More discretionary time More balance of time between work and leisure, spending less time to collect wood used for smoking fish Increase time to take care of the children (education and health) Opens up the opportunities to income generating activities	Saved time used not for leisure activities but for undertaking unpaid care work within household and at community level Not addressing fully women's work burden
Income & Assets	Improves the living standard Better adaptation to economic and social shocks Improved access to decision-making More respect paid to women by others in the community and by the local administration Improved economic resilience and social consideration	The number of improved fish smokers is not sufficient to meet the high demand of their use The income allocated to women depends on their husbands as the business belongs to both of them Non availability of funds to implement more improved smokers Smokehouse damage High repairing costs

4. WOMEN'S EMPOWERMENT PLAN (WEP)

Based on the gender and stakeholder analysis and the selection of the W+ Domains, the following are described:

- Theory of change
- Statement of intentionality

The Theory of Change includes the causal relationship between activities and expected results, and the Project's intentionality describes the steps to achieve women's empowerment goals that are included in the project design/plan.

a) Theory of change

Based on the gender and stakeholder analysis and the selection of the W+ Domains, please prepare a Women's Empowerment Plan. It can be included as a table using the below template or as narrative.

Outcomes: Income & Assets	Indicators	Risks	MoV
End outcomes: Improved livelihoods of women smokers Increased perception of well being Increased economic resilience and social consideration Improved access to decision-making More respect pay to women by others in the community and by the local administration Improved mobility	Children educated Health improved Women's contribution to social events Number of women in the saving groups Number of women part of the traditional management committee/structure Women's contribution in the household decisions Number of women invited to official ceremonies by the Local administration Officer and traditional rulers Women's participation in activities outside the camps, the village and the island	Can't turn additional income into assets Damage of the introduced smokers Non availability of technicians to repair in case the smokers are damaged Exorbitant tax increases by the local authorities	Women's statements Written record of transactions
Intermediate outcomes: Conversion of income into assets. Membership in saving groups	Type of assets they bought Amount saved in saving groups		Women's statements Records from transactions



			Saving group Membership cards
Immediate outcomes Increased income	Amount of increased income		Bank accounts (quantitative) Recording the amount of income
Outputs Women using the improved fish smokers	Increased in the quantity of smoked fish produced		
Inputs - Implementation of improved models of fish smokers - Training on the use of the improved model of fish smokers - Structuring the AFUMA Association	Number of improved models of fish smokers implemented Number of AFUMA members participating in the training Governance of the AFUMA association		

Outcomes: Saved time	Indicators	Risks	MoV
End outcomes Increased perception of livelihoods Enhanced living standards	- Enhanced health - Improved kitchen equipment - Access to improved technology of information and communication (Cell phones, Television, etc.) - Improved access to clean energy (solar energy)	Time saved used for other drudgery activities	Women's statements
Intermediate outcomes Increased time for rest and leisure/recreational activities	- Time spent to rest and leisure/recreational activities - Improved participation to social events		- Records - Women's statements
Immediate outcomes Increased time saved	Time saved		Records of time saved
Outputs			



Access to and use of improved fish smokers			
Inputs • Installation of improved fish smokers • AFUMA members' training on efficient use of improved smokers			

b) **Project's Intentionality:**

The Women's Empowerment Plan demonstrates evidence of project's Intentionality.

Policy for gender/women's empowerment	Budget targeted for women's empowerment	M&E plan for women's empowerment	Internal capacities for gender analysis and women's empowerment	Project's selection criteria of beneficiaries to demonstrate equal opportunity for participation of women from all social groups in project activities
Yes	Yes	Yes	Yes	Yes
REFACOF statute indicates that its vision is to improve women's property rights . One of its objectives is to promote women's direct and effective participation in natural resources management. The network through its advocacy activities, is pushing for women's consideration in different sectors	Activities identified are related to women's empowerment by introducing improved fish smoking equipment and building capacity of women fish processors. The budget was elaborated based on these activities	Included in the project document and in the monitoring	REFACOF and Cameroun Ecology staff has satisfactory capacities in integrating gender perspective. They have been working for the organization for more than 6 years. The project team was effective and efficient in delivering project outputs	The association AFUMA (Manoka Women Fish Smokers Association) is composed of all the women smokers in Manoka. The improved fish smokers are implemented in 2 camps where there are more women smokers. For better management of the new equipment, members of AFUMA board committee are selected for the improved fish smokers implementation

5. MONITORING & EVALUATION PLAN

W+ Domain	Project activities	Number of Beneficiaries	Required sample size
Time	- Improved fish smokers Installation in 2 villages (Nyangadou and Dahomey camps) - Capacity building of AFUMA members	160	61

<i>Income & Assets</i>	• Diagnosis of fish smoking models/equipment used by women smokers • Comparison study of traditional and improved smokers • Implementation of improved smokers in Dahomey and Nyangadou fish camps • Training of AFUMA members on the use of improved fish smokers	160	61
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Outcomes:

Income & Assets

Results	Indicators	Risks - including Do No Harm risks	Means of verification	Collection methods	Frequency	Responsibility
<i>End outcome (Long term).</i> Improved livelihoods of women smokers Increased perception of well being Increased economic resilience Improved access to decision-making More respect pay to women by others in the community and by the local administration Improved mobility	Children educated Health improved Women's contribution to social events Number of women in the saving groups Number of women included in the traditional management committee/structure Women's contribution in the household decisions Number of women invited to official ceremonies by the	Can't turn additional income into assets Damage of the introduced smokers Non availability of technicians to repair in case the smokers are damaged Exorbitant tax increases by the local authorities Having to Invest too	Women's statements Written record of transactions	Documents and records Interviews and surveys Focus groups		





	Local administration Officer and traditional rulers Women's participation in activities outside the camps, the village and the island	Much time building the income or assets you gained from the project Income gap between women and men increased				
<i>Intermediate outcome (Medium Term)</i> <i>Conversion of income into assets.</i> Membership in saving groups	Type of assets they bought Amount saved in saving groups	Having to sell assets, i . e . Jewelry, livestock or get a loan in order to pay for aspects of the project	Women's statements Records from transactions Saving group Membership cards	Documents and records Interviews and surveys		
<i>Immediate outcome (Short Term)</i> <i>Increased income</i>	Amount of increased income	increased income or assets led to any physical or emotional abuse social sanctions, violence or marital troubles	Recording amount of people Recording the amount of income	Documents and records Interviews and surveys		
Outputs Women using the improved fish smokers	Increased in the quantity of fish produced Increased in the amount of income generated					

Time Saved

Results	Indicators	Risks - including Do No Harm risks	Means of verification	Collection methods	Frequency	Responsibility
<i>End outcomes</i> Increased perception of livelihoods	- Enhanced health - Improved kitchen equipment - Access to improved	Time saved used for other drudgery activities <i>Having to invest too much time building the income or assets</i>	women's statements Records	Documents and records Interviews Focus groups		

	technology of information and communication (Cell phones, Television, etc.) Improved access to clean energy (solar energy)	<i>you gained from the project</i>				
<i>Intermediate outcomes</i> Increased time for rest and leisure/recreational activities	- Time spent to rest and leisure/recreational activities - Improved participation to social events		Records of time saved	Documents and records Focus groups Interviews and surveysd		
<i>Immediate outcomes</i> Increased time saved	Time saved for fish smoking Time saved for firewood collection		<i>Women's statements</i>	Surveys and interviews FGD		
Outputs Access to and use of improved fish smokers						

Do No Harm:

A Do No Harm assessment was done through the following questions :

- Have you experienced any problems in participating in the project?
- Did the time needed to participate in the project prevent you from participating in other income-generating activities or employment?
- Did you have to invest too much time building the income or assets you gained from the project?
- If the project generated employment: had the income gap between women and men increased?
- Have you had to sell assets i.e., jewelry, livestock , or get a loan in order to pay for aspects of the project?
- Was the information and training on maintenance and operation of the project sufficient for both men and women?
- Has the increase in income or assets led to any physical or emotional abuse, social sanctions, violence or marital troubles?
- Do you implement this project voluntarily?

Survey

The baseline to endline survey developed based on the method document of the W+ Domain is included in the Appendix.

6. BENEFIT SHARING MECHANISM

The following entities can be used for the benefit-sharing mechanism required for the W+ Standard:

REFACOF, an association created in 2009 and governed by law N°090/053 of 19 December 1990, is of public utility and can receive funds from abroad. The association has an adequate governing structure and financial mechanisms.

AFUMA, the Association of women fish smokers in Manoka, has already a board committee with designated members. With an organizational and technical capacity building, the association can put in place an adequate financial system.



Declaration of non-involvement in any form of discrimination, sexual exploitation, abuse or harassment (SEAH)

Hereby declare that, to the best of my knowledge, neither (name of project implementer) or any other entity involved in project design or implementation has not been involved in or will be involved in any form of discrimination, sexual exploitation, abuse, or harassment (SEAH).

This signed declaration is made in good faith and with my full consent, without pressure or coercion. I understand that any breach thereof may/will result in the termination of the W+ Application.

This signed declaration forms part of the requirements of the application of the W+ Standard.

Signature of authorized representative submitting this Project Design Document

Name: **Cecile Ndjebet**

Title : REFACIF President **and Founder**

Signature: _____

Survey Questionnaire

W+ REVENU ET ACTIFS

IDENTIFICATION			
1	Quartier	Dahomey	
		Plateau	
		Sandie	
		Nyanqadou	
2	Ville	MANOKA	
3	Type de menage	Beneficiaire du projet USERS	User
		Non beneficiaire du projet	Non User
4	Nom de l'enquete (plus de 18 ans)		
5	Nom de l'enqueteur		

Date de l'enquete

SECTION 1- GENERAL INFORMATION				
#	Question		Nombre	Coding
	Nombre de membres du menage qui habite ensemble au moment de l'enquete	Homme adulte		
		Femme adulte		
		Enfants (moins de 15 ans)		
	Quel est votre statut matrimonial?	Mariee		1
		Concubinage		2
		Divorcee/celibataireNeuve		3
		Autres (a preciser)		4
	Depuis quand avez-vous utilise le four ameliore			

SECTION 2 - REVENU ET EPARGNE				
#	Question			Coding
IA2	Quel est votre revenu mensuel issu de la vente de poissons fumes pendant la haute saison (Nov -Mars)	En FCFA		
IA3	Quel est votre revenu mensuel pendant la basse saison issu de la vente de poissons fumes (Avril - Octobre)	En FCFA		
	Pensez vous que votre revenu a augmente du fait de l'utilisation du four ameliore	Oui	1	SKIP FOR NON BENE
		Non	2	
		Pas sar	3	

IA4	Est-ce que vous prenez des decisions sur les revenus issus des activites suivantes et a quel degre? 1- 5 (1= faible, 5= eleve)	Oui = 1	Non =2	Si oui, Score 1-5
	Vente du poisson fume?			
	Vente de poisson frais			
	Activites hors champs : achat et vente			
	Autres (A preciser)			
IA5	Pensez vous que votre revenu a augmente l'annee derniere a cause de la vente de poisson fume?	Oui	1	
		Non	2	
		Pas sar	3	
IA6	Si oui, quelle est l'augmentation du revenu issu de la vente de poisson fume pour l'annee derniere?	(en FCFA)		

	Si oui, quelle est l'augmentation du revenu issu de la vente de poisson fume pour l'annee derniere?	Significative	1	
		Plus ou mains	2	
		Faible	3	
		Aucune	9	
IA7	Si oui, Quelles sont les raisons de cette augmentation? (Choix multiple) 1= Oui 2= Non	Meilleur acces aux marches	a	
		Amelioration de la production	b	
		Amelioration de la qualite du poisson fume	c	
		Mains de depenses	d	
		Acces a de meilleures technologies et equipement	e	
		Epargne issue de l'acces aux technologies et equipement	f	
		Autre (a preciser)	g	
181	Comment avez-vous depense votre revenu additionnel et votre epargne? (Choix multiple) 1= Oui 2= Non	Propriete (ressources naturelles)	a	
		Amelioration de l'habitat	b	
		Re investir dans les activites generatrices de revenu/Affaires	c	
		Education	d	
		Consommation journaliere pour l'alimentation	e	
		Technologie/communication (telephone, internet radio, televisieurs)	f	
		Loisirs	g	
		EparQne dans les GVEC/ Banque	h	
		Sante	i	
		Achat des actifs (equipement de cuisine, energie, ...)	j	
		Bijoux , beaute ,	k	

		Autres (a preciser)	l	
		Non pertinent	m	
IC1	Est-ce que le revenu additionnel et l'epargne a permis de faire d'autres benefices? 1=OUI, 2= NON; SCORE: 1- 5 (1=faible, 5 =eleve) (0= Non pertinent)			

Ameliorer les decisions au niveau du menage	a	
Ameliorer les acces aux decisions communautaires	b	
Egalite sur les revenus au niveau du menage	c	
Ameliorer le business	d	
Temps pour les AGR	e	
Sante	f	
Bien etre	g	
Autre (a preciser)	h	
Non applicable	i	

SECTION 3				
IA8	Est-ce que vous etes membre d'un groupe d'epargne?	Oui	1	
		Non	2	
IA9	Si oui, combien avez vous epargne dans ces groupes? Mensuel	(en FCFA)		
IA9	Combien de cette epargne a ete obtenu de l'utilisation du four ameliore?	Somme significative	1	SKIP FOR NON BENE
		Plus ou moins	2	
		Faible somme	3	
		Aucune	4	

W+ GAIN DE TEMPS

Qui est habituellement responsable des activités suivantes dans votre ménage ?					
	TA1	Travail remuneré (externe, y compris le travail salarié et artisanat)	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Garc;ons	6	
			Filles	7	
			Non pertinent	9	
	TA2	Fumage des poissons	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Non pertinent	9	
		Collecte de bois pour le four	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Femme et Salarie	6	
			Non pertinent	9	
	TA3	Vente des poissons	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Non pertinent	9	
	TA4	Pêche	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Non pertinent	9	

	TA5	Production agricole (propres terrains)	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Filles	6	
			Gan;ons	7	
			Salarie	8	
			Non pertinent	9	
	TA6	Elevage de betail / Petit elevage	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Filles	6	
			Gan;ons	7	
			Salarie	8	
			Non pertinent	9	
	TA?	Vente des produits agricoles	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Non pertinent	9	
	TA9	Activites communautaires non remunerees (ceremonies, ...)	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Non pertinent	9	
	TA10	Soins aux enfants, aux malades et aux personnes agees	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Gan;ons	6	
			Filles	7	
			Non pertinent	9	

	TA11	Collecte de bois de chauffe	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Garçons	6	
			Filles	7	
			Salarie	8	
			Non pertinent	9	
	TA12	Preparation des repas	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Gargons	6	
			Filles	7	
			Non pertinent	9	
	TA13	Nettoyage de la maison et des alentours	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Gargons	6	
			Filles	7	
			Non pertinent	9	
		Autres (a preciser)	Femme seule	1	
			Homme seul	2	
			Femme domine	3	
			Homme domine	4	
			Homme et femme ensemble	5	
			Gargons	6	
			Filles	7	
			Non pertinent	9	

Je vais maintenant vous demander combien de temps vous avez consacré la dernière fois aux activités suivantes ?

HAUTE SAISON

TA14 _ HS	Combien de temps avez-vous consacré la dernière fois à des activités communautaires non rémunérées (par exemple des groupes) (en une journée)?	[en Heures]	
TA15 _ HS	Combien de jours par an participez-vous à : Des activités communautaires non rémunérées (par exemple des groupes)	[Jours total par an]	
TA16 HS	Combien de temps avez-vous consacré la dernière fois au : séchage du poisson (durant la haute saison)	[en Heures]	
TA1 7 HS	Combien de jours par semaine durant la haute saison participez-vous au : séchage du poisson	[Jours total]	
TA20 HS	Combien de temps avez-vous consacré la dernière fois à la préparation du repas pour le ménage	[en Heures]	
TA21 HS	Combien de jours par semaine avez-vous consacré à la préparation du repas pour le ménage	[Total de jours par semaine]	
TA22 HS	Combien de jours par semaine avez-vous consacré à l'élevage du bétail	[Total de jours par semaine]	
TA23 HS	Combien de temps avez-vous consacré la dernière fois au nettoyage de la maison et des alentours	[en Heures]	
TA24 HS	Combien de jours par semaine avez-vous consacré au nettoyage de la maison et les alentours (ménage)	[Total de jours par semaine]	
TA25 _ HS	Combien de temps par jour prenez vous soin des enfants et des personnes âgées?	[en Heures]	
TA26 HS	Combien de jours par semaine prenez vous soin des enfants et des personnes âgées ?	[Total de jours]	
TA27 _ HS	Combien de temps avez-vous consacré la dernière fois aux : Loisirs (repos pendant la journée, lecture, radio/TV, bavardage)	[en Heures]	
TA28 _ HS	Combien de jours par semaine participez-vous aux Loisirs (repos, lecture, radio/television, bavardage) ?	[Total de jours par semaine]	

BASSE SAISON

TA14 BS	Combien de temps avez-vous consacré la dernière fois à des activités communautaires non rémunérées (par exemple des groupes) (en une journée)?	[en Heures]	
TA15 BS	Combien de jours par an participez-vous à : Des activités communautaires non rémunérées (par exemple des groupes)	[Jours total par an]	
TA1 8 BS	Combien de temps avez-vous consacré la dernière fois au : séchage du poisson	[en Heures]	
TA1 9 BS	Combien de jours par semaine participez-vous au : séchage du poisson	[Jours total]	

TA20 BS	Combien de temps avez-vous consacre la derniere fois a la preparation du repas pour le menage	[En Heures]		
TA21 BS	Combien de jours par semaine avez-vous consacre a la preparation du repas pour le menage	[Total de jours par semaine]		
TA22 BS	Combien de jours par semaine avez-vous consacre a l'elevage du betail	[Total de jours par semaine]		
TA23 BS	Combien de temps avez-vous consacre la derniere fois au nettoyage de la maison et des alentours	[en Heures]		
TA24 BS	Combien de jours par semaine avez-vous consacre au nettoyage de la maison et les alentours (menage)	[Total de jours par semaine]		
TA25 BS	Combien de temps par jour prenez vous soin des enfants et des personnes agees?	[en Heures]		
TA26 BS	Combien de jours par semaine prenez vous soin des enfants et des personnes agees ?	[Total de jours]		
TA27 BS	Combien de temps avez-vous consacre la derniere fois aux : Loisirs (repos pendant la journee, lecture, radio/TV, bavardage)	[en Heures]		
TA28 BS	Combien de jours par semaine participez-vous aux Loisirs (repos, lecture, radio/television, bavardage)?	[Total de jours par semaine]		
SECTION 4 - PERCEPTION DU GAIN DE TEMPS (POUR LES BENEFICIAIRES UNIQUEMENT)				
TB1	Pensez-vous avoir gagne du temps grace a la nouvelle technologie de sechage du poisson introduite par le projet (four ameliore) ?	Oui	1	SKIP FOR NON USER
		Non	2	
TB2	Comment avez utilise le gain de temps? (Choix multiple) 1= OUI 2= NON	Aider les enfants dans leurs etudes	A	SKIP FOR NON USER
		Travailler dans les champs	B	
		Nettoyage	C	
		Activites generatrices de revenus	D	
		Activites sociales	E	
		Activites recreatives	F	
		Autres activites	G	

TB3	Quels avantages avez-vous tirés de l'accès à cette nouvelle technologie de séchage du poisson ? (Choix multiple) 1= OUI 2= NON	Amélioration de la santé	A	SKIP FOR NON USER
		Amélioration de l'éducation des enfants	B	
		Amélioration et sécurisation du logement	C	
		Augmentation des revenus	D	
		autres	E	

SECTION 5 - DO NO HARM (POUR LES BÉNÉFICIAIRES UNIQUEMENT) SKIP FOR NON USERS

DNH1	Avez-vous eu des problèmes en participant à ce projet?	Oui	1
		Non	2
DNH2	Est-ce que la participation au projet (utilisation du four amélioré) en terme de temps vous a empêché de faire d'autres AGR ou autres activités?	Oui	1
		Non	2
DNH3	Avez-vous investi beaucoup de temps pour générer le revenu ou actifs à partir du projet (four amélioré)?	Oui	1
		Non	2
DNH4	Si le projet a créé des emplois : Est-ce que la différence de revenu des femmes et des hommes a augmenté?	Oui	1
		Non	2
DNH5	Est-ce que vous avez dû vendre vos biens (bijoux, ...) ou faire du crédit pour pouvoir payer les frais relatifs à ce projet?	Oui	1
		Non	2
DNHG	Est-ce que l'augmentation du revenu issu de l'utilisation du four amélioré a créé des problèmes (abus émotionnel, violence, sanctions sociales, conflits conjugaux)? Choix multiples 1= OUI 2= NON	Abus physiques	A
		Abus émotionnel	B
		Sanctions sociales	C
		Violence	D
		Problèmes conjugaux	E
		Autres problèmes (A préciser)	F
		Non	G
DNH7	Est-ce que vous mettez en œuvre ce projet volontairement?	Oui	1
		Non	2
DNH8	Est-ce que les informations/formations sur l'opérationnalisation/maintenance relative	Egales pour les femmes et les hommes	1
		Plus pour les hommes?	2



	au projet sont suffisantes pour les hommes et les femmes	Plus pour les femmes?	3
DNH9	Qui decide du prix minimum du poisson ?	Question ouverte	
DNH10	Qui influence la decision sur le prix de vente du poisson?	Question ouverte	
DNH11	Comment se passe la gestion du revenu genere par le projet ?	Question ouverte	

W+ Project Design Document Template Revision History		
#	Date	Description
1	2015	Original
2	22 May 2017	Edits to nomenclature for consistency. Removal of redundant information requests. Addition of time-frames and specificity regarding multiple domains and prevention of double-counting
3	16June2017	Expansion of POD requirements, transferred text from W+ Standard responding to public comments.
4	12 Februarv 2019	Edits to clarify content of each section
5	27 October 2020	Edits to clarify content of each section
6	7 November 2023	Edits to clarify content of each section and include Women's empowerment plan and intentionality