# Mid-term Review Report on Project for the Development of Irrigated and Rainfed Rice Cultivation (PRODERIP) in Cameroon

January 2021

JAPAN INTERNATIONAL COOPERATION
AGENCY
(JICA)



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Currency Equivalents (as of November 2020)

Currency Unit (FCFA)

1 FCFA = 0.188 JYN

1 JYN = 5.3056 FCFA

1 USD = 105.61 JYN

Government Fiscal Year in Cameroon

January 1 – December 31

# List of Acronyms and Abbreviations

A3.177	List of Actoryths and Abbreviations
AVZ	Agent de Vulagrisation de Zone
	Zonal Extension Agent
BS	Breeders' Seed
CARD	Coalition for African Rice Development
CEAC	Centres d'éducation et d'Actions Communautaires
	Education Action Community Centre
CS	Certified Seed
DRCQ	Direction de la Réglementation et du Contrôle de Qualité des Intrants et
	Produits Agricoles
	Department of Regulation, Quality Control of Agricultural Inputs and
	Products
DSCE	The Growth and Employment Strategy Paper
DSDSR	Rural Sector Development Strategy
FCFA	Franc Communauté Financière d'Afrique Centrale
	Financial Cooperation in Central Africa Franc
FS	Foundation Seed
FY	Fiscal Year
GoC	Government of the Republic of Cameroon
GoJ	Government of Japan
INS	Institut National de la Statistique du Cameroun
	National Institute of Statistics of Cameroon
IRAD	Institut de Recherche Agricole pour le Développement
	Institute of Agricultural Research for Development
JCC	Joint Coordination Committee
JFY	Japanese Fiscal Year
MINADER	Ministre de l'Agriculture et du Developpement Rural
	Ministry of Agriculture and Development
MINEPIA	Ministère de l'Élevage, des Pêches et des Industries Animales
	Ministry of Livestock, Fisheries and Animal Industries
M/M	Minutes of Meetings
NERICA	New Rice for Africa
NRDS	National Rice Development Strategy
ODA	Official Development Assistance
PDM	Project Design Matrix

PIB	Public Investment Budget			
PNVRA	Programme National de la Vulgarisation et de la Recherche Agricole			
	National Agricultural Extension and Research Programme			
PO	Plan of Operations			
PRODERiP	Projet de Développement de la Riziculture Pluviale de Plateau en Zone de			
	Forêt à Pluviométorie Bimodale			
	Upland Rice Development Project of the Tropical Forest Zone in Cameroon			
PRODERIP	le projet pour le développement de la culture du riz irrigué et pluvial au			
	Cameroun Project for the Development of Irrigated and Rainfed Rice Cultivation in			
	Cameroon			
PRSP	Poverty Reduction Strategy Paper			
R/D	Record of Discussions			
RS	Registered Seed			
SS	Superviseurs de Secteur			
	Sectorial Supervisor			
TOR	Term of reference			
UNVDA	Authority Société de Développement de la Haute Vallée du Noun			
	Upper Noun Valley Development			

# Chapter 1. Outline of the PRODERIP

#### 1-1 Background of PRODERIP

Rice is one of the staple foods for the rural and urban population in Cameroon. Rice consumption in Cameroon is rapidly expanding. The increasing demand is met by import.

The government of the Republic of Cameroon (GoC) recognizes the importance of the rice sector in its economy as well as for poverty reduction. The Growth and Employment Strategy Paper (DSCE) was developed as the second generation Poverty Reduction Strategy Paper (PRSP), providing strategic direction for the national poverty reduction of a decade from 2010. The agriculture sector is considered as the main engine for economic growth with rice as the most important crop to address import dependency, food security and coping strategies for high cost of living.

Under DSCE, rural sector strategy was elaborated in Rural Sector Development Strategy (DSDSR), confirming the importance of rice as a strategic crop.

Cameroon became a member of the 'Coalition for Africa in Rice Development (CARD) in 2008. Under the CARD initiative, the National Rice Development Strategy (NRDS) was developed in 2009. NRDS aims to achieve rice self-sufficiency by 2018 and established the target of producing 970,000 tons in 2018. Rainfed upland rice production, the majority of increase, was expected to increase by more than 20 times from 30,000 tons in 2008 to 697,000 tons in 2018.

At the Regional level, the Government of Japan (GoJ) took the initiative to establish CARD and continues to commit. At the country level, Japan's Country Assistance Policy for Cameroon established Agriculture and Rural Development, focusing on rice, as one of the three priority sectors for assistance.

Following Cameroon's participation in the CARD initiative and based on the NRDS objectives, JICA assisted in implementing a Technical Cooperation Project 'The Upland Rice Development in the Tropical Forest Zone in Cameroon (PRODERiP, 2011-2016).' PRODERiP aimed at increasing the number of farmers producing upland rice varieties. While PRODERiP introduced upland rice to the non-experienced areas and this should be regarded as an important contribution to the rice sector of Cameroon in a long run, it was recommended at the Terminal evaluation that further follow up is required to establish a success model for upland rice cultivation for the wider adaptation of upland rice by farmers, and that the potential of irrigated rice should also be cultivated.

Against such background, 'The Project for the Development of Irrigated and Rainfed Rice Cultivation (PRODERIP)' was requested by GoC and approved by GoJ.

#### 1-2 Summary of PRODERIP

The narrative summary of PRODERIP is given in the revised Project Design Matrix (PDM) which was approved in the 2<sup>nd</sup> Joint Coordination Committee (JCC) in February 2018. Following is the summary of the PRODERIP.

#### 1. Project Name

Project for the Development of Irrigated and Rainfed Rice Cultivation (PRODERIP)

#### 2. Cooperation Period

From June 2016 to June 2021

# 3. Target Group

15,000 Farming households in PRODERIP Areas

(10,000 households in three rainfed Regions / 5,000 households in the irrigation sector)

# 4. Implementing Agency

Ministry of Agriculture and Rural Development (MINADER) and

Upper Nun Valley Development Authority (UNVDA)

#### 5. Target Area:

Center, East and South Regions for rainfed rice, and irrigated sectors of UNVDA

#### 6. Project Site:

PRODERIP has four seed multiplication fields as follows.

- 1) Nkolbisson, Institute of Agricultural Research for Development (IRAD), Yaoundé in Center Region
- 2) Farm of Regional Agricultural College (CRA) at Bityili, and Ebolowa in South Region
- 3) Seed farm of MINADER at Batouri in East Region
- 4) UNVDA, Ndop, North West Region

PRODERIP has produced Basic Seed<sup>1</sup>, Foundation Seed (FS) for upland rice in the IRAD farm. The seed farms of CRA at Bityli and Ebolowa produce Registered Seed(RS) and Certified Seed(CS). The seed farms of MINADER at Batouri in East Region produce RS and CS.

As for the lowland rice, PRODERIP produces Breeders' seed (BS), FS, RS, and CS at the seed plot in Ndop in the Northwest Region.

Training on upland rice cultivation is conducted for MINADER extension workers and key farmers of upland rice in the PRODERIP field in Yaoundé. On-site training is conducted for general rice farmers in each target region.

<sup>&</sup>lt;sup>1</sup> Seed for Foundation seed production

PRODERIP supports the post-harvest activities and milling operations in ten milling stations in three target regions.

# 7. Super Goal

Rate of rice self-sufficiency is improved in Cameroon

#### 8. Overall Goal

Sales of irrigated rice and consumption amount of upland rice are increased in PRODERIP areas

# 9. Project Purpose

Production and quality of milled rice are improved in PRODERIP areas.

# 10. Outputs

- ① Production of high quality seeds of irrigated and upland rice varieties increased in the project areas.
- ② The number of farmers who cultivate and consume upland rice increases in the project areas in the Centre, South and East Regions
- ③ Farmers' irrigated rice cultivation techniques are improved in the UNVDA irrigation sectors.
- 4 Harvest, post-harvest processing are improved for marketing in the UNVDA irrigation sectors.

# Chapter 2. Outline of the Mid-term review

# 2-1 Objective of the Mid-term review

The Mid-term review of PRODERIP is conducted to serve the following objectives:

- 1. To review the achievement and implementation process of the project according to the PDM;
- 2. To review the project according to the five evaluation criteria described in the following section;
- 3. To discuss the further plan for the project among both Cameroonian and Japanese sides based on the assessment and analysis results, and also solutions for any problems that may arise through the reviews and observations to secure sustainability;
- 4. To identify the promoting factors and impeding factors of achievement of the project and to draw lessons learned from the project; and
- 5. To present the results of the review in the form of a review report.

#### 2-2 Members of the Team

Name	Position	Organization
Mr. MATSUSHITA Yuichi	Team leader	Economic Development Department, JICA
Mr. KAKINUMA Shota	Cooperation Planning	Economic Development Department, JICA
Ms. SHIRAI Kazuko	Evaluation & Analysis	Kaihatsu Management Consulting, Inc.

# 2-3 Schedule of the Mid-term review

The Mid-term review was conducted from 9<sup>th</sup> November to 4<sup>th</sup> December 2020. The detailed schedule is shown in ANNEX 1.

# Chapter 3. Methodology of the Mid-term review

#### 3-1 Review

Due to COVID-19, JICA determined to conduct the Mid-term review by the Mid-term Review Team (hereinafter, 'the Team') composed of only Japanese members to avoid the complexity of the study. The Team reviewed PRODERIP in accordance with the Record of Discussion (R/D), the PDM and the Plan of Operations (PO). The review activities, including report analysis and remote interviews with staff of relevant institutions, beneficiaries, Japanese experts and other concerned personnel of PRODERIP, were conducted based on the Five Evaluation Criteria described in the following section.

#### 3-2 Framework of review: Five Evaluation Criteria

The review is preceded along with the following five criteria, which are the major points of consideration when assessing development projects.

(1) Relevance	Relevance is to question whether the Project Purpose and overall goal are
	still in line with the priority needs and concerns at the time of review
(2) Effectiveness	Effectiveness concerns the extent to which Project Purpose has been
	achieved, or is expected to be achieved, in relation to the Outputs produced
	by PRODERIP.
(3) Efficiency	Efficiency is the productivity of the implementation process: how
	efficiently the various inputs are converted into outputs.
(4) Impact	Impact is any intended and unintended, direct and indirect, positive and
	negative that is brought about as a result of PRODERIP.
(5) Sustainability	Sustainability of PRODERIP is assessed in terms of institutional, financial
	and technical aspects by examining the extent to which the achievement of
	PRODERIP will be sustained after the project is completed.

#### 3-3 Sources of information utilized for the review

Following sources of information were utilized for this review study:

- (1) Project planning documents such as R/D, PDM, and Minutes of Meetings (M/M)
- (2) Bi-annual and monthly reports of the project
- (3) Interviews and discussions with the Japanese experts
- (4) Interviews and discussions with the counterpart personnel and collaborating entity such as IRAD
- (5) Record of inputs and utilization
- (6) Project documents on the progress and achievements of the project
- (7) Interviews and discussion with the target farmers

# 3-4 PDM for review

The current PDM (version 1: as of  $28^{th}$  February 2018) shown in ANNEX 2 is used as the PDM for the Mid-term review.

# **Chapter 4. Achievements and Implementation Processes of PRODERIP**

# 4-1 Inputs

The Team confirmed that PRODERIP has availed the following inputs along with the plan stated in the PDM and the PO attached in ANNEX 3.

#### (1) Japanese side

#### 1) Dispatch of Japanese experts

9 Japanese long-term experts (Chief Advisor/ Rice Sector Policy, Seed Production/ Rice Cultivation, Farm Management/ Extension, Training/Extension (2), Regional cooperation/ Project Coordinator, Monitoring/ Project Coordination (2 persons), Extension (2)/ Paddy quality control, and Training/ Rice Mill Operation and Management) and 3 short-term experts (Variety Purification and selection Technique, Post-harvest & Agricultural Machinery, and Civil Engineering), have been dispatched to PRODERIP for technology transfer.

#### 2) Provision of equipment and machinery

There are equipment and machinery provided to PRODERIP. The total value of them is 66,238,557 JPY (equivalent to 351,435,288 FCFA). The details of the equipment and machineries provided by JICA are listed in ANNEX 4. Out of 66,238,557 JPY (equivalent to 351,435,288 FCFA) spent from July 2016 to January 2019, 36,614,399JPY (equivalent to 194,261,355 FCFA) (55%) and 21,869,108 JPY (equivalent to 116,028,739 FCFA) (33%) were spent in 2017 and 2018, respectively. Most of the equipment and machineries are properly used. All office supplies, such as a desktop PC and a laser printer, and means of transportation such as vehicles and motorcycles are frequently used. Out of equipment and machinery specialized for rice production and processing, a rice whiteness analyzer, scales, a testing rice huller, and a testing rice miller are often used. An instrument shelter is installed as a spare in IRAD and is replaced when the current one is damaged. The Project intended to use a tiller, a rice thresher, a tractor in the field in Ndop plots. But for safety reasons, it has not been accessible. A milling plant will be installed when the warehouse is constructed.

#### 3) Training of counterpart personnel in Japan

The counterpart training was conducted in Japan and the third country with 15 participants from MINADER and UNVDA as follows. Saga University organized the Country-focused training, in which 5 trainees participated in 2017. 4 trainees participated in the invitation program to Japan in 2019.

Table 1 Training in Japan and the third country

	Date	Country	Participants
1.	June 2 to August 9, 2017	Japan	1

2	June 2 to August 9, 2017	Thailand	1
3	August 12 to September,2017	Japan	2
4	October 14 to October 30, 2017	Japan	4
5	June 27 to August 10, 2019	Japan	1
6	October 20 to November 2, 2019	Japan	4
7	November 4 to December 21, 2019	Japan	1
8	March 8 to October 16, 2020	Japan	1

Source:PRODERIP

The objectives of the training were to learn Japanese/Thai rice production technology such as agricultural machineries, irrigation, and distribution and sales system of agricultural products. The participants also learnt the large-scale production process of high-quality rice seed and organizational structure, as well as inspection technology of high-quality rice seed production and seed certification, and how to reflect what they leaned on their agricultural policies.

# 4) Bearing of local costs

Total equivalent to 224,999,000 JPY (1,232,808,220 FCFA) has been provided to supplement a portion of local expenditure for Japanese Fiscal Year (JFY) 2016-2019 (up to the end of January 2019). The details of the local cost borne by the Japanese side and budget are shown in Table 2 below.

**Table 2** Local Operational Expenses Covered by Japan (JPY)

Items of expenses	2016	2017	2018	2019*1
Labor Costs	14,212,000	18,498,000	17,525,000	17,525,000
Local Consultant Fees	0	0	0	0
Construction Expenses	0	5,998,000	7,365,000	1,536,000
Facility Maintenance / Management Fees	344,000	686,000	434,000	434,000
Maintenance Expenses for Equipments	3,626,000	3,491,000	4,921,000	3,957,000
Purchase Expense	3,610,000	7,080,000	4,499,000	6,685,000
Travel / Transportation Expenses	7,211,000	11,537,000	11,653,000	10,681,000
Communication / Transportation Expenses	1,899,000	1,504,000	2,168,000	2,367,000
Document Expenses	1,222,000	1,373,000	1,156,000	939,000
Rental Fees	764,000	921,000	723,000	181,000
Conference Fees	1,887,000	0	2,110,000	0
Miscellaneous Fees	86,000	3,629,000	108,000	2,761,000
Utility Charges	0	0	0	0
HR Training Fees	7,132,000	9,911,000	8,444,000	10,206,000
Total per year (JPY)	41,993,000	64,628,000	61,106,000	57,272,000
			Total (JPY)	224,999,000

Source: PRODERIP

# (2) Cameroonian sides

# 1) Appointment of counterpart personnel

In total, 15 counterpart personnel, 9 officers were appointed from MINADER, and 6 officers from UNVDA as shown in the list of ANNEX6. As for the division supervisors and extension workers, the allocation of division supervisor and extension workers is showed in Table 3.

Table 3 Number of division supervisor and extension workers in 2019

	1st season	2 <sup>nd</sup> season
Division Supervisor	14	6
Extension workers	171	83
Subtotal	185	89
Total		274
Target area	153	73
Non-target area	32	16

Source: PRODERIP

# 2) Provision of facilities

The necessary office space and fields have been provided at the MINADER, UNVDA, and IRAD for daily activities of the Japanese experts and personnel hired by the project. For example, MINADER provided the project with the seed fields in Batouri. IRAD provided the seed fields of agricultural high school under MINADER in Bityili and Nkoemvone field in Ebolowa of South Region to produce RS and CS. Some spaces to keep equipment and machinery were also provided.

# 3) Operational Cost

Table 4 shows that the Cameroonian side provided 390,000,000FCFA of C/P fund and 170,500,000FCFA of Public Investment Budget (PIB) as the operational costs. For PIB, the revenue was largely declined as the impact on the overall economy of the country due to COVID-19 and others.

Table 4: Operational cost by Cameroonian side

(,000FCFA)

Year —	Counterpart Fund		Public Investment Budget (PIB)	
	Approval	Revenue	Approval	Revenue
2016	60,000	60,000	0	0
2017	100,000	100,000	50,000	50,000
2018	0	0	76,000	76,000
2019	120,000	110,000	40,000	40,000
2020	120,000	120,000	11,000	4,500

Source: MINADER

## 4-2 Achievements of the Outputs

The achievement levels of the four Outputs are different between upland and lowland rice. The achievements of some indicators are also unknown. The detailed information on the Output achievement is described as follows:

Output 1: Production of high quality seeds of irrigated and upland rice varieties increased in the project areas.

(1) Indicator 1-1: The genetic purity of certified seed of target rice varieties, produced by the project is maintained as established as the target in Rice Seed Strategy (more than 99.8%)

The project set a target figure of at least 99.8% CS purity, stated in the Seed Strategy prepared by MINADER in 2015. The achievement of the target figure is not known yet, as the

genetic purity was not measured due to the tentative return of the Japanese expert Team. However, according to DRCQ<sup>2</sup> and SRCQ, any problems have not been detected by their inspections until the time of the Review survey. All seeds have been passed the field inspection by SRCQ. The Japanese experts will conduct survey to confirm the genetic purity with the C/P after returning to Cameroon.

(2) Indicator1-2: Certified seed production of target rice varieties in the project areas reaches more than 20 ton/year for lowland variety, and 60 ton during the project year for upland variety.

#### The indicator has been partially achieved.

### [Lowland rice seed]

The variety purification and seed multiplication for all seed categories from BS to CS have been implemented at the UNVDA seed multiplication fields in Ndop by UNVDA C/Ps and at the project field in Yaoundé. Out of 11ha of UNVDA seed production plots, the project initially intended to irrigate 3ha for the project's activities. However, only 1.5ha was irrigated due to security issues. In addition, as the Japanese experts were unable to visit the fields, it is difficult to provide proper technology transfer. Nonetheless, the skills of the technical assistants and field labours were improved. The project avoided early growth loss due to delay in transplantation by dividing the sowing into two sessions. As a result, the project multiplied a total of 30 tons of CS (20 tons of Tox 2 and 10 tons of Local 2), which exceeds to the target figure.

#### [Upland rice seed]

Since June 2016, seed maintenance (Basic Seed<sup>3</sup> and FS) of the upland rice seed are implemented at Nkolbisson field in Yaoundé. RS and CS of upland rice varieties (NERICA 3 and NERICA 8) were multiplied mainly at Bityili and Batouri<sup>4</sup> seed farms. The production of CS of NERICA 3 and NERICA 8 from 2016 to 2019 is shown as follows.

**Table 5 Production of Certified Seed** 

Year	Production (ton)		
1 cal	NERICA3	NERICA8	
2016	3.0	2.5	
2017	4.0	8.3	
2018	6.4	5.0	

<sup>&</sup>lt;sup>2</sup> Direction de la Réglementation, du Contrôle de Qualité des Intrants et Produits Agricoles

<sup>&</sup>lt;sup>3</sup> Basic Seed is the seed to produce Foundation Seed (FS).

<sup>&</sup>lt;sup>4</sup> Due to the soil degradation at the Batouri seed farm, it has been moved to the one in IRAD field in Southern Region at the time of Mid-term review.

2019	8.6	3.2
Subtotal	22.0	19.0
Total		41.0

Source:PRODERIP

MINADER multiplied CS of NERICA3 with the BIP budget with the Avangane Irrigated Rice Pilot Farm (FPRIA-C) project (the Korean project) in the dry season of 2017-2018. However, based on the total result, **upland rice seed production has not reached the target figure vet.** CS production of upland rice did not reach the target figure because (1) the continuous seed production causes the degradation of soil quality. Consequently, the brown spots were occurred, and 1 of 4 seed plots were severely damaged. In stinkbug-infested fields, yields were as low as 0.5ha. In Batouri, the cultivation of 2 crop seasons was hampered, (2) there is a lack of budget and its delay in disbursement for the activities, and (3) the COVID-19 outbroke in March 2020. Nonetheless, seed production activities have been carried out for the first season in both fields with the efforts of C/P, and appropriate instructions from the Japanese experts (figure 1).

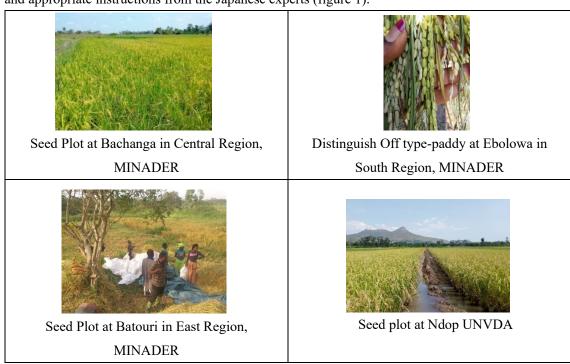


Figure 1 Seed production in the target areas in 2020

Even though the production of CS continues, its scarcity is apparent since there is a large demand in the CS made by PRODERIP from not only the target farmers but also non-target farmers in non-target areas because of its high quality.

Output 2: The number of farmers who cultivate and consume upland rice increases in the project

areas in the Centre, South and East Regions.

(1) Indicator 2-1: Rate of farmers cultivates upland rice two times in 5 years in the monitoring areas is more than 35% (baseline was 29.8%)

The survey on the continuous farmer in the PRODERiP revealed that 1,225 (29.8%) of the 4,106 farmers were practicing upland rice cultivation on two or more occasions using seeds that they collected themselves or received more than once from the project distribution. PRODERIP, in consultation with the C/P, set a target figure of 35%.

At the time of Mid-term review, the indicator is not achieved yet, even though the rate of farmers who cultivated upland rice twice for the seeded farmers increased by 18.5% in 2017 and 28.1% in 2018 (23.9% on average). Factors for non-achievement were identified as a decrease in project seed production and lack of instructions by decreased extension workers, caused by the end of the National Agricultural Extension and Research Programme (PNVRA) extension program that split the extension system into two in 2018. Consequently, extension workers of the Ministry of Livestock, Fisheries and Animal Industries (MINEPIA) let the project. A lack of fuel and daily allowance for extension workers discourage them from visiting farmers' fields. Rainfall is not always sufficient for upland rice cultivation, either.

(2) Indicator 2-2: Out of farmers who received seed, ratio of farmers who repeat cultivation the following season with in-house produced seed is more than 20%.

Results of the PRODERiP of continuous farmer survey showed that out of 4,106 farmers, 682 (16.6%) practiced upland rice cultivation using self-collected seeds. More than half of the 4,106 farmers in PRODERIP were assumed to be self-collecting upland rice farmers, with a target figure of 20%. The percentage of farmers who collected seeds from their fields has been increasing since 2017 as below. However, it has resulted that **the indicator is not achieved yet**.

**Table 6** The Percentage of Farmers who Collected Seeds from Their Fields

Year	Farmers who collected seeds from their fields
2017	7.5%
2018	13.1%
2019	14.3%

Source: PRODERIP

It is observed that the heavy burden of birds raiding, untimely guidance from extension workers due to a decline in the number of extension workers discourage farmers from continuing

farming rice. Some farmers do not collect self-produced rice seed intentionally, because the project provides seeds, and they think seeds from PRODERIP is better than the one produced in their fields<sup>5</sup>.

At the same time, there are a certain number of farmers who continue upland rice cultivation. The Team identified several contributing factors for successful farmers, as 1) Practicing what farmers learned in training faithfully in their fields, 2) Group farming functions to collaboratively take measures to overcome the challenges such as bird attach and land preparation<sup>6</sup>, 3) some farmers sold their upland rice at the PROMOTE<sup>7</sup>, and realized that there is a strong market demand. This finding makes farmers produce rice more, 4) farmers can save their expenditure for daily food by producing rice by themselves instead of buying it, and 5) farmers have noticed that self-produced rice without chemicals is healthier than imported rice. These factors could be the keys to increase upland rice producers.

Output 3: Farmers' irrigated rice cultivation techniques are improved in the UNVDA irrigation sectors.

(1) Indicator 3-1: Average paddy yield/ha of trained farmers is more than 5.0 ton/year.

The yield study by the project resulted 3.5t/ha for UNVDA irrigated areas as a baseline. The project set the target figure set at 5.0t/ha after consultation with C/P. The indicator is likely to be achieved since the production of CS has exceeded the target figure at the project seed multiplication field in Ndop, as shown in Table 7. However, the reason of increase is not the result of technology transfer, but the improved seed quality. When the security status improved, the project will conduct a sample survey at the farmers' field in Ndop to confirm the yield performance at the farmer's level after the Japanese expert Team returned to Cameroon.

Table 6: Yield of Certified Seed in 2019

		Yield of Certified Seed (t/ha)		
Place	Variety	Baseline	2019	
Ndop	TOX 2	3.5	7.5	
(PRODERIP)	Local 2		6.0	

Source: PRODERIP

Output 4:

Harvest and post-harvest processing are improved for marketing in the UNVDA

<sup>&</sup>lt;sup>5</sup> Basically, farmers receive seeds only once when participated in the training. When the project provides seeds, two key farmers and 15 general farmers come at one time.

<sup>&</sup>lt;sup>6</sup> According to an interviewed key farmer in Makenane, in Central Region, who has been growing upland rice since 2007, the success factor is the group's ability to help each other. They are also planting rice in a single row, as they learned in training, to increase productivity.

<sup>&</sup>lt;sup>7</sup> PROMOTE is an agriculture exhibition organized by MINADER to promote the Cameroonian crops. PRODERIP has participated in PROMOTE to sell upland and lowland rice to see the consumers' reaction to the PRODERIP made rice.

irrigation sectors.

(1) Indictor 4-1: Broken rice rate of UNVDA marketed rice is less than 30%.

A baseline survey on the UNVDA's rice sales showed that the broken rice percentage was 45%-52% before PRODERIP. Based on the consultation with the C/P of UNVDA and MINADER, the project set a target of 30% or less for the broken rice percentage. The indicator has been achieved, as shown in Table 7. The broken rice rate of higher quality rice (750 FCFA/kg) to sell for a supermarket is less than 30%, and the average of those rice and the acceptable quality rice (500FCFA/kg) is 26.04%. There is a room to improve in seed purification yet, when comparing the PRODERIP made rice with imported rice.

**Table 7 Broken Rice Rate of UNVDA Marketed Rice** 

	Baseline	Target	Average of 750FCFA/kg	Imported rice
			and 500FCFA/kg	(reference)
Broken rice rate (%)	45 to 52	30 or less	26.04	4 to 5

Source: PRODERIP

(2) Indicator 4-2: Dockage (impurity) number of UNVDA marketed rice is less than 1 stone/5kg and less than 20 paddy grains/kg.

Based on the results of a sample survey of rice sold at UNVDA, specific and actual figures were set as the target in consultation with the CP. <u>The indicator in 2019 has already been achieved</u>, as showed in Table 8.

Table 8 Dockage (impurity) Number of UNVDA Marketed rice

	Baseline	2019		
Stone	1 stone/kg		0 stones	
Paddy	40 grains/kg	SB10 milling machine	1.48 grains/kg	
		Stone picker machine	0 grains in 30 packs	

Source: PRODERIP

4-3 Prospects to Achieve the Project Purpose

Project Purpose: Production and quality of milled rice are improved in the project areas.

(1) Indicator1: Rates of increase of amount of rice production in the project areas are more than 42% for irrigated rice and more than 36% for upland rice.

# A part of the indicators of PRODERIP Purpose is unlikely to be achieved by the end of the project.

# ① Lowland rice

Based on the baseline survey conducted in 2016, the project estimated the target volume as follows.

Baseline:  $3.5t/ha \times 4,000 ha = 14,000 tons$ 

Target:  $5.0t/\text{ha} \times 4,000 \text{ ha} = 20,000 \text{ tons } (42\% \text{ increase})$ 

# The Prospect for the achievement is positive, even though the indicator 1 is not known.

The present data is not available because extension officers could not visit the field to collect data due to security reasons. However, as Table 9 shows, the number of farmers who cultivate new varieties, cultivation areas, production of lowland rice, and amount of paddy brought to UNVDA increased in 2019.

Table 9 Number of farmers, paddy production and sales for UNVDA

		Cultivated	Production	Brought paddy to UNVDA	
		new variety		local	TOX2
2018	Farmers(no)	305			
	Paddy	15.3ha	5.5 ton	17.9 ton	
2019	Farmers(no)	522			
	Paddy	35.9ha	33.8ton	79.9 ton	37.5ton

Source: PRODERIP

The project plans to conduct a sample interview survey at farmers' field in 2021 to understand the yield performance, as well as to obtain the data for the indicator.

#### ② Upland rice

The upland rice production is 238 tons, 56.7% of the target figure, as shown in Table 10. The project speculates that the production will not reach its target by its end, even if the production in 2020 and 2021 is added on top.

**Table 10 Production of Upland Rice** 

	Baseline	Target	Present status
Upland rice (ton)	307	420	238

Source: PRODERIP

The number of farmers who received seeds, seeded, and harvested have decreased since 2017, in Table 11 shows as below.

Table 11 Number of Farmers Received Seed, Seeded, and Harvested

	No. of farmers received seed	No. of farmers seeded	No. of farmers harvested	
2017	2,055	1,369	1,059	
2018	1,415	1,179	884	
2019	1,302	1,012	797	

The project aims to produce upland rice for subsistence rather than for sale. It was argued that farmers who were able to produce upland rice on a continuous basis would be able to work more efficiently and deal with bird damage by cultivating in groups. The Team also identified that these farmers have a background of traditional upland rice production, relatively little bird damage, and the availability of labour for bird trapping even in the event of bird damage.

The followings are various reasons that made the upland rice production low.

## 1) Seed shortage due to disease and lack of C/P fund to produce

The disease was outbroken in the seed field in Batouri in East Region due to the soil degradation.

## 2) Number of extension workers decreased because the extension system has changed.

After the restructuring of the extension system, MINADER has not been able to fill the vacancies due to budget shortfalls. Instead, the project has substituted the vacancy of extension workers by key farmers, experienced retirees to be, Education Action Community Centre (CEAC) directors, and community representatives.

#### 3) Continuous cultivation was not enough due to the decreased interest of farmers

Some of the target farmers have lost their interest in upland rice cultivation due to rain shortage, no harvest due to late seeding, insufficient weeding, bird damage in the field. Heavy workload for land preparation and weeding are challenging for them to choose unfamiliar upland rice cultivation, while they have other conventional crops such as cacao, plantain, and cassava to grow.

(2) Indicator2: Percentage of consumers who rate the taste of domestic rice as delicious ("OISHI")<sup>8</sup> is more than 50%.

Considering the result of baseline survey, 30.5% of consumers' preference at 6<sup>th</sup> International Exhibition for Enterprises SME and Partnerships of Yaoundé (PROMOTE), the project

<sup>&</sup>lt;sup>8</sup> "OISHI" is a Japanese word for "delicious". At the beginning of PRODERIP consumer preferences on rice will be determined by surveys.

set the target figure as the percentage will increase more than 50%.

<u>Indicator2 is expected to be achieved</u> as the rate of 'OISHI' was 66.1% in 2019. The data was collected at the 7<sup>th</sup> PROMOTE in 2019, and the project plans to conduct a survey in 2021 as well. The taste of NERICA varieties has been highly evaluated among stakeholders of rice development such as high lank officials of MINADER and the farmers interviewed in the Mid-term review.



Figure 2 Survey of the rice taste at 7<sup>th</sup> PROMOTE

(3) Indicator3: Rate of increase of whiteness of milled rice produced in UNVDA irrigation sectors is more than 38%.

According to the baseline survey result, the average value of the whiteness of Ndop rice was about 33%. The target figure was decided to 38%, which was the average whiteness of NERICA 3 that had been cultivated and milled in the previous project.

The Indicator3 is expected to be achieved as the average whiteness of milled rice was found as 37.9% in PRODERIP's survey in 2020. The photo of project irrigated rice apparently improved in its colour (Figure 3). It is expected to be achieved by the end of the project.



Figure 3 Colour of Ndop Rice 2016 (UNVDA), New Ndop Rice in 2019, NERICA 3 (PRODERIP), and GINO (imported rice)

Source: PRODERIP

(4) Indicator4: Different variety contamination rate of paddy produced in UNVDA irrigation sectors decrease from 45% to less than 10%.

In 2016, the project conducted a sample survey about the mixture rate of paddy purchased by UNVDA from farmers and found that more than 45% of 8 varieties were mixed. In consultation with MINADER and UNVDA, the target was set at 10% or less. The indicator has achieved its target, as all the samples show that the varietal mixture is less than 10% in 2020. **The indicator is expected** 

to be achieved as Table 12 shows that the mixture rate of each variety is less than 10%.

**Table 12 Mixture Rate of Variety** 

Place	Variety	No. of Sample	No. of samples in each range of different paddy mixture			1	
			$X<1$ $1 \le X < 10$ $10 \le X$		10≦X		
UNVDA	Local	302	232	70			
	TOX2	No data	No data	No data			
Yaonde	Local	125	125	0	0		
	TOX2	31	22	9	0		

Source:PRODERIP

While UNVDA accepted paddies, some of them are not passed the check by the project. The reason for the differences in the quality assessment results of the UNVDA/Ndop and Yaoundé inspections is that UNVDA/Ndop was done on a farmer-by-farmer basis, when the assessment should have been done for each harvest bag. When the same farmer brings in multiple loads, it is not easy to distinguish the differences among the harvested bags. There is a room for UNVDA to improve their skills to judge the color and shape of paddy.

#### 4-4 Contributing and hindering factors for the achievement of Project Purpose

The contributing and hindering factors to affect the achievement of Project Purpose can be summarized as below.

#### 1) Contributing factors for the achievement of Project Purpose

#### [Upland rice]

The project promotes group farming to reduce the heavy workload in rice cultivation and protect paddy from bird attack. The improved quality of seed is contributing to the improvement of yield. Improved post-harvest of milling machines and destoner have enabled the project of good quality milled rice at the end. The capacity of milling machine operators is also improved through training.

#### [Lowland rice]

The mandate of the UNVDA is mainly to prepare fields and farm roads, buy, mill and sell rice paddy, and supply production materials and equipment such as seeds and fertilizer. Therefore, prior to the project, UNVDA officials had never conducted rice farming training. After the start of the project, UNVDA staff began to provide training, which led to gaining the trust of farmers. C/P observes that water control is much easier in lowland rice than in upland rice, which is contributing to an increase of lowland rice production.

#### [Common factors]

Farmers gradually realized that high quality seed made by the project improves their yield. The farmers who belong to the functional group tend to succeed the continuous rice production by collaborating and encouraging each other in field work. The extension services improved after the project started in its instruction as well as frequency.

# Hindering factors for the achievement of Project Purpose Upland rice

The decrease in seed production is concerned because of the delay in budget allocation and drought, while the Cameroonian budget covers production cost of FS and CS. It is not resolved and is not expected to be solved although the delay of budget allocation is discussed in JCC.

A decrease of the number of extension workers hinders active extension services for rice farmers. The small number of extension staff prevents them from visiting farmers when farmers need him/her. Lack of fuel and per diem, the extension staff are not motivated. As the extension staff does not go to the field, information about the field is not gathered timely.

Rain shortage due to Climate Change is hampering the rice cultivation on time, which discourage the farmers from continuing the production.

#### [Lowland rice]

The deteriorating security situation caused to narrow the target's target area from five sectors to three sectors. It also prevented the Japanese experts and even UNVDA staff from visiting the site, which hampered smooth implementation of the target activities.

# 4-5 Prospects to Achieve the Overall Goal

Overall Goal: Sales of irrigated rice and consumption amount of upland rice increased in PRODERIP areas.

(1) Indicator1: The amount of marketed irrigated rice of in UNVDA irrigation sectors is more than XX tons.

In 2018, UNVDA sold 3.9 tons of milled rice. It is expected to see an increase in 2019, although the total volume is still being compiled. Detailed data are difficult to obtain because of the movement ban due to the deteriorating security situation in the Northwest Region. In addition, farmer's sales volume across the irrigation sector is extremely difficult to measure, as it includes the purchases by non-UNVDA actors through local buyers. Such a situation is observed where the cash purchase of paddy by UNVDA is insufficient due to the lack of budget. This tendency will hamper the future achievement of the overall goal, that is, the sales of irrigated rice are increased in the project area.

(2) Indicator2: Annual consumption of self-grown upland rice increases to 45.5 kg/year in the target household

Based on the results of PRODERiP, upland rice is considered as the milled volume (= consumption). The amount of milled rice can be calculated from the yield of produced rice. Therefore, the baseline and target figures were calculated as follows.

- Baseline: amount of paddy rice produced (63 kg/farmer) x 62% yield = consumption (39 kg/farmer/year)
- Target figure: amount of paddy rice produced (70 kg/farmer) x 65% yield = consumption (45.5 kg/farmer/year)

As of November 2020, data on farmers' annual consumption is not yet collected. Means of verification, that is, extension worker's reports, should be reconsidered, as the yield of milled rice cannot be ascertained from the reports.

### 4-6 Prospects to Achieve the Super Goal

Super Goal: Rate of rice self-sufficiency is improved in Cameroon.

Indicator1: Rate of Rice self-sufficiency is more than XX%.

While MINADER aims to improve rice self-sufficiency, the self-sufficiency rate is not precisely calculated as there are imported and exported rice in Cameroon. However, according to FAOSTAT data (domestic production / (domestic production + total imports - total exports)), self-sufficiency has increased from 10.1% in 2008 to 25.8% in 2017.

#### 4-7 Implementation Process

# (1) Implementation of activities

Since its commencement, the project has implemented the activities generally as planned as indicated in PO. Some activities such as selecting and conducting training for good farmers/groups who have the potential to become seed farmers/groups in the future, and TOT for division supervisors/ extension workers and key farmers on upland rice, are not implemented in 2020 due to COVID-19. The project plans to implement these delayed activities after returning to Cameroon, prioritizing the activities that contribute to the development and sustainability of the rice sector in the future.

#### (2) Decision making and monitoring mechanism

# 1) Joint Coordination Committee (JCC) (once or twice/year)

JCC, as the highest decision-making mechanism for the project, chaired by the Minister of MINADER, held meetings 3 times since its commencement. In the JCC meeting, PRODERIP shared the progress and plan of activities for the following term.

#### 2) Technical meeting

The Technical meeting has been held every two weeks among C/P of MINADER, UNVDA and the Japanese expert team. Since the security problem occurred in the Northwest Region, the C/P of UNVDA attend the meeting in Yaoundé. Even after the outbreak of COVID-19, the project Team continues the meeting remotely.

# (2) Communication among the project personnel

The Team found that there has been close communication among stakeholders such as Japanese experts, officers at the headquarter of MINADER and UNVDA, officers at the target Regional Agriculture Offices, Division, and Sectoral Supervisors (SS) and extension workers of target areas in both upland and lowland rice production. At the same time, the Team identified that 3 Regional agriculture offices consider PRODERIP to involve them more in the project activities.

# Chapter 5. Results of the evaluation

#### 5-1 Relevance

The relevance of PRODERIP is evaluated as **High** based on the following factors:

# (1) Relevance to the related policies of the Government of Cameroon

Rice has become an important crop due to its increasing demand. According to MINADER, there is a need to shift rice from import to export of rice and balanced trade, and the project is getting a policy support from the government. In these policy trends, since 2018, the Project to Support the Production of Quality Plant Material (PAPMAV-Q) has made rice seeds into a strategic crop to enter the portfolio of the plan. The second NRDS is under its revision and expected to be completed in 2021.

# (2) Consistency with the ODA policies of the Government of Japan

The project is regarded as the core project of the Agricultural Promotion Program of the Country Assistant Policy of the Japanese Government to Cameroon. Further, the GoJ launched the second term of the CARD initiative in 2019, which aimed to double the rice production in Africa by 2030. Cameroon was placed as one of the first among CARD target countries. Therefore, the project is in line with the Official Development Assistance (ODA) policies of the GoJ.

#### (3) Relevance to the needs of the target beneficiaries

The objective of the project is in line with the needs of Cameroonian society from the officers of MINADER and UNVDA to farmers of upland and lowland rice in the field. MINADER and UNVDA have a strong aspiration to upland rice and lowland rice development to achieve the national goal, increasing self-sufficiency of rice.

The UNVDA's mandate is mainly to maintain plots and access roads, buy, mill and sell rice paddy, and supply production materials and equipment such as seeds and fertilizer. While UNVDA had never conducted cultivation-related training, it is able to conduct training together with the project at present.

Both lowland and upland rice farmers need to use high-quality seed, improve cultivation techniques to increase rice production. For the lowland rice farmers, the quality of rice is also important for sale to UNVDA. The project has met their needs in these aspects.

#### 5-2 Effectiveness

The effectiveness of the project is evaluated as **Relatively High** based on the following factors:

#### (1) Achievement of the Project Purpose

As above stated, the Project Purpose is unlikely to be achieved by the project end in terms

of the target figures. The indicators regarding the quality of lowland rice will likely be achieved. The result of parameters to measure the production of lowland rice is also indicated as positive, even though the actual data of production has not been available due to security reasons. The taste and quality of rice will be improved at a satisfactory level.

There are various challenging factors to prevent the upland rice from increasing its production, such as disease that occurred in the seed production plots, a lack of C/P fund for production, and a decreased number of farmers who continuously cultivate upland rice. The project plans to investigate the good practices of successful upland farmers in every step of cultivation to identify and disseminate the model to other farmers.

(2) Logicality and contribution of Outputs to the achievement of PRODERIP Purpose

The logicality between PRODERIP Purpose and the Output is still valid at present.

- (3) Analysis of factors
- 1) Contributing factors

In addition to the achievement of outputs, the Team identified contributing factors as follows:

- ② Upland rice
- The strong commitment of the MINADER is identified to promote upland rice in the course of rice self-sufficiency process stipulated in NRDS.
- Active participation of motivated extension workers is observed.
- Group farming is successfully practiced for protecting paddy from bird attacks.
- Farmers' preference for fresh and safe domestic rice for self-consumption encourages farmers to produce more rice.
  - 3 Lowland rice
- Skills and knowledge of UNVDA staff in extension services are improved for farmers, as training was not included in the mandate of UNVDA before PRODERIP.
- Improved quality of rice by purification of seed, cultivation and post-harvest techniques
- ①+②: Even under the influence of COVID-19, the project and the CP are in close contact with each other remotely using a variety of tools to ensure that project activities are carried out with as little delay as possible.
- 2) Hindering factors
- (1) Upland rice

As stated above, the most serious obstacles for farmers to cultivate upland rice is bird attack, following heavy work of plowing, and damages by hedgehogs. Even though the project recommends farmers form a group to mitigate bird attacks and practice cultivation collaboratively, it is not easy for the farmers in some areas where there are different thoughts and attitudes among them.

The Team identified that the success of farmers depends largely on each extension workers' performance in target areas. Where they are very much active to disseminate new skills and knowledge on upland rice production and carefully monitor farmers' performance, the result of production is outstanding. However, not all the extension workers are not the same, and some farmers did not follow extension workers' advice on appropriate cultivation timing.

#### ② Lowland rice

The security problem in the Northwest Region has affected the smooth implementation of the project since 2017. It has restricted the Japanese expert Team, and later even UNVDA staff from entering the target areas. In consequence, the project had to narrow the target areas from 5 sectors to 3 sectors. It was also difficult for farmers to go to their fields for daily work in cultivation and harvest of rice.

- (4) Current situation of the Important Assumptions to achieve the Project Purpose by attaining the Outputs
- 1) Project areas are not seriously affected by natural disasters including droughts and floods.

#### (Not fulfilled)

A flood happens every October due to heavy rain in the area of UNVDA. Water flow in the upper stream is changed to prevent water from concentrating in field plots using sandbags. Brown spot outbroke and spread due to poor fertility of soil, which caused the low yield of seed production.

#### 5-3 Efficiency

The efficiency of the project is evaluated as **Relatively High** based on the following factors:

#### (1) Achievement of Outputs

Out of 4 outputs, a part of output 1(production of CS for lowland rice), output3(productivity and quality improvement of lowland rice) and output4(post-harvest improvement of lowland rice) have been achieved, whereas the indicators for upland rice have not been achieved yet. The data for the indicator of purification of rice varieties (indicator 1-2) is not available at the time of Mid-term review, while DRCQ and SRCQ have found no problems.

#### (2) Japanese experts

Before the outbreak of COVID-19, the Japanese long-term and short-term experts were

dispatched as planned. After COVID-19, they keep close communication with C/P, providing appropriate suggestions and instructions for smooth implementation of project activities. Their roles and expertise were fully utilized for effective implementation of the project activities.

## (3) Equipment and machineries

Most of the machines and equipment, vehicles, office equipment and machineries have been utilized at MINADER, the IRAD field, two seed production plots in South and East Regions, and plots in the Ndop field of UNVDA. Even though the security problem, the plots in Ndop are still utilized by UNVDA staff with remotely provided supports from the project.

The project monitors the usage of the diesel milling machines (SB-10) provided in 10 pilot sites by PRODERiP. Based on the monitoring result, the project provides advices to the milling operators in terms of milling technique, while there is a room to prove in management, such as keeping a record and reporting to the supervisor in an appropriate manner.

#### (4) Training

As shown in ANNEX 6, the project has provided a variety of training for officials, SS, Zonal Extension Agent (AVZ) of MINADER, MINEPIA, UNVDA, key/leader farmers, and general farmers in each pilot site in three target Regions and 3 sectors of UNVDA.

The Japanese experts and C/P have carefully elaborated on the training material 'The Guide for NERICA Production' and 'The Guide for Lowland Rice Production' based on the cultivation practices in the filed as well as some Japanese techniques. C/P takes part in developing contents and translating, and proof-reading French/English languages, which enhanced C/P's further understanding of upland and lowland rice cultivation.

### (5) Inputs from Cameroonian side

The C/Ps were appointed as scheduled at its commencement. However, the post of the Deputy Project Manager has not been fulfilled either after the ex- Deputy Project Manager was transferred. MINADER has disbursed its budget for seed production since the season of 2017/2018.

Extension workers of UNVDA were appointed as planned, whereas the extension workers of MINADER has largely decreased since 2018 as the extension system has changed.

- (6) Current situation of Important Assumptions to achieve the outputs by implementing project activities
- 1) The trained staffs and extension officers of MINADER and UNVDA continue engage in rice sector. [Partially fulfilled]

While the number of extension workers has decreased as the vacancies are not be filled due

to a lack of budget, MINADER has tried to substitute the extension workers by empowering key farmers as well as allocate the staff of CEAC.

#### 2) Means of transportation for extension officers are secured for their activities.

#### [Not fulfilled]

The transportation means is not problem for extension workers of UNVDA. However, worsening security in Northwest made it difficult for them to visit farmers' field to provide instructions and monitoring of farmers' performance. For the extension officers in three target Regions, the lack of fuel is discouraging their motivation to visit the farmers' field.

# 3) Damage by birds, pests nor diseases does not increase significantly.

#### [Partially fulfilled]

Bird attack has seriously damaged upland rice in some target areas<sup>9</sup>. Some staff were employed to mitigate the bird damage.

#### 5-4 Impact

The impact of the project is evaluated as **High** based on the following factors:

# (1) Prospect of achievement of the Overall Goal

As above stated, it is expected that UNVDA will increase its sale of milled rice in future considering the increasing lowland rice production. However, it is not easy to measure the precise amount of marketed lowland rice in entire UNVDA sectors, as there are a certain portion of rice to be legally and illegally exported to other countries through local buyers.

As for the sales of lowland paddy, farmers cannot fully sell the paddy to UNVDA, as it sometimes could not pay in cash, which farmers were in need for their payment for the expenses of family. This tendency will be affected for the future achievement of overall goal.

Considering the consumption volume is same as the production volume of upland rice, the Team identified that it is useful to check the annual paddy production recorded by extension workers, as well as the data at milling stations.

#### (2) Positive Impacts

Efforts are being made to achieve the overall goals, including dissemination by extension workers to non-target areas in three Regions.

The project contributes to Cameroon's policy of rice self-sufficiency and give a revision process for the NRDS II.

<sup>&</sup>lt;sup>9</sup> The bird attack is not as serious in lowland rice areas and in Makenene and Batouri for upland rice.

The project is having a positive technological impact through the extensive cooperation on the Democratic Republic of the Congo, Republic of Congo, and Gabon by a periodical visit, and neighboring countries, such as Chad and Benin by an occasional visit. The project invites the government officers at Regional and field level who promote rice production from all five countries plus Burundi. This contributes to the CARD's goal to double the rice production in Sub-Sahara Africa. C/P also conducts rice cultivation training collaborating with UNDP in the Far North Region.

# (3) Negative impacts

The Team did not identify any negative impact of the project.

- (4) Current situation and prospect of Important Assumptions to achieve the Overall Goal by fulfilling the Project Purpose
- 1) Promotion of rice sector maintains its importance in the policies of Cameroon.

#### (Fulfilled)

The Cameroon's policy toward the achievement of rice self-sufficiency gives a strong support for the project.

2) International price of rice does not drop significantly.

#### (Fulfilled)

The Team identified that there is no significant drop in the international price of rice.

- (5) Current situation and prospect of Important Assumptions to achieve the Super Goal by fulfilling the Overall Goal
- 1) Illegal export does not increase

#### [Precise situation is unknown]

It is reported that rice is illegally exported due to large demand of rice in domestic market and neighbourhood countries, particularly Nigeria and Chad. Small export companies illegally transport rice thorough by-paths by motorbike to avoid tariff. They sometimes transport small amount of rice to neighbourhood countries to store it <sup>10</sup>. During the Mid-term review survey, UNVDA's extension agent, key farmers informed that farmers are also selling some portion of paddy to local buyers.

2) Import tax on rice will remain effective

#### [Fulfilled]

-

Source: Impact des Importations des produits alimentaires de grande consommation sur l'économie nationale en 2017, National Statistics Institute (INS) ) 299 bags were illegally exported in 2018 (Business in Cameroon, 14 November 2018)

The rate of the Common External Tariff (CET) has been re-established on some products, such as rice and cement. As such, the import of rice, which previously benefitted from the suspension of duties and taxes, is henceforth subject to the CET at the rate of 5%.

National Institute of Statistics of Cameroon (INS)<sup>11</sup> informs that Cameroon imported 728,443 tons of rice for a value of CFCF 183.7 billion in 2017. Despite the application of customs duties in this area since January 2016, these imports have increased by 18.6% in quantity and 27.9% in value compared to 2016.

3) Promotion of PPP policy is maintained in the future policy/strategy on rice sector development in Cameroon.

#### [Not known]

The Team identified that there is a need of high-quality rice seed of both upland and lowland rice, as the farmers gradually understand the importance of high-quality seed for the increase of production. While MINADER is requested by other Regions to provide PRODERIP made upland rice seed, which is a positive impact of the project, however, the scarcity of seed is becoming a challenge as well. The project considers they empower the good practicing farmers as seed farmers is not for selling the seed, but for dissemination of upland rice. UNVDA and SEMLY are the largest buyers of lowland rice paddy and seller to the market. PPP in rice sector is not much discussed at the time of Mid-term review.

# 5-5 Sustainability

The sustainability of PRODERIP is evaluated as **Relatively High** based on the following factors:

### (1) Laws and Policies

MINADER is drafting the NRDS II, in which the rice production is targeted as one of the prioritized crops.

#### (2) Institutional and Financial Aspects

MINADER is producing rice seeds with its budget, which leads to the further increase of upland rice production in non-target Regions. Extension workers of MINADER is decreasing because of institutional reorganization of extension system as well as a lack of budget. The financial status of UNVDA is not satisfactory to cover the requirement of buying paddy from farmers.

#### (3) Ownership of Target Group

<sup>&</sup>lt;sup>11</sup> Institut National de la Statistique du Cameroun

The ownership of MINADER is observed as significant from its initiative to expand upland rice seed distribution to non-pilot areas nationwide with its budget. UNVDA also has a strong ownership in conducting training for farmers by sharing the cost.

# (4) Technical Aspect

All the stakeholders showed their willingness to maintain the rice cultivation, post-harvest techniques that they obtained from the project. MINADER and UNVDA officers appreciate their new skills of rice seed production. At the same time, they expressed their aspiration to learn more about post-harvest technique, which require more knowledges.

# **Chapter 6. Conclusion**

The project has aimed to promote upland rice since PRODERiP commenced in 2011 and to improve the quality of paddy rice production that started with this project. The project's rice promotion has been supported by the GoC, which aims to improve self-sufficiency in rice, and the project has contributed to improve land preparation, cultivation, post-harvest handling, and rice milling technologies for both upland and lowland rice. The technologies which the project adapts meet the technical needs of MINADER, UNVDA, and other region, division, and extension workers.

The high-quality seeds produced by the project have been well received by rice farmers outside the project area, and the production volume has not been able to keep up with the demand. In addition, the technical exchange with neighboring countries through regional cooperation has provided a good technical and organizational stimulus for both parties involved.

The deteriorating security situation in the northwest in 2017, which has disrupted the Japanese experts from visiting to the field since 2018. The COVID-19 in 2020 has a significant impact on this project. With a much decrease in budget, farmers' farming operations were delayed, and the guidance of extension workers was also delayed, which will affect production in 2020. Despite this, Japanese experts are still supporting the project remotely from Japan, and the C/Ps and farmers have continued to plant and are beginning to harvest again this season. This indicates that the people involved in the project understand the importance of increasing the production of high-quality rice and that they are building the will to continue the project activities sustainably. However, due to delays in activities and lack of surveys, some indicators could not be measured. Therefore, the Team concludes that an extension of the project's duration is inevitable.

# **Chapter 7. Recommendation**

#### 7-1 Recommendations for all concerns

### (1) Extension of project period

Due to COVID-19, Japanese experts have evacuated to Japan since March 2020. It causes delay of some project activities. In addition, the construction of milling plant including the procurement of a packing machine has been suspended. Since next phase is planned to launch from April 2022, it is recommended to extend the project period for 9 months until March 2022 to cover some delayed activities.

#### (2) Revision of PDM

The PDM has not been revised since the beginning of PRODERIP. Through the Mid-term review, the Team reviewed the current PDM and propose the revision version. The revised PDM is shown in ANNEX 7 to express the achievement of PRODERIP more precise. It is also expected that the target figure for the Overall Goal will be revised to measurable indicator.

#### 7-2 Recommendations for MINADER and the Project

#### (1) Extraction of good practices

Some farmers abandon rice cultivation because of hard work, but others continuously cultivate rice. For further development of upland rice, the project has to identify these farmers and extract good practices for upland rice cultivation. In this case, the Project needs to monitor them rather than simply visiting farmers on a one-off basis.

### (2) Seed production by farmers

Farmers now realize the importance of high quality seed and the demand of the seed which the Project produces is high. Consequently, the lack of high quality seed occurs. Thus, it is recommended to train good farmers that they can produce the high quality seeds by themselves and for community-based dissemination.

#### (3) Enhancement of group cultivation

Group cultivation is effective to combat bird damage. Thus, the Team recommends to bring together the elements of a functioning group and to conduct group enhancement training such as leadership training, accounting management training and so on.

## (4) Tasting activities for new farmers

Many farmers said that the rice produced in their area is good taste and safe, and it is one of the motivations for them to grow rice. When the project approaches new farmers, it would be an effective way to conduct tasting activities to introduce a good taste of rice. Currently, similar activities are carried out in big cities, but it should be done in other cities and even small villages.

# (5) Regular monitoring on rice miller

Monthly reports of rice miller management from the extension workers are not always submitted in time. It is important to monitor rice miller on a regular basis for transparency and also encourage the extension workers to submit the reports in time.

# 7-3 Recommendations for UNVDA and the Project

#### (1) Improvement of financial sustainability

Lack of fund to buy rice from farmers is critical challenge for UNVDA. UNVDA must have financial sustainability to overcome it. The Team recommends setting precise grades of rice quality, and UNVDA buys rice from farmers at a higher price. In addition, UNVDA sells it at a higher price and gains profits from the trades. By improving the financial sustainability, more and more farmers will sell their rice to UNVDA.

#### (2) Improvement of quality check

There is still evaluation gap between UNVDA and Yaoundé. Some rice is passed by UNVDA's check, but it is not in Yaoundé. Since in the future, UNVDA has to be able to conduct quality check by its own, it is recommended to acquire the skills and knowledge to judge the grade of rice quality.

#### 7-4 Recommendations for MINADER

### (1) Securing C/P funds

PRODERIP is a technical cooperation project aiming at capacity development of C/P and is different from grant and loan projects. In the technical cooperation project, the C/P fund is very important to implement the project and MINADER has to cover some operational costs such as personnel expenses. Although the Project provides the necessary machineries for capacity development, the machineries for further development should be installed by MINADER. Furthermore, while MINADER secures the budget for seed production, the execution is late for planting. Timely budget execution, as well as securing budget is required.

#### (2) Appointment of Deputy Project Manager

The post of the deputy project manager is supposed to be fulfilled by the Chief of Agricultural Extension Service of DOPA or a person equivalent, but the post has been absent. It should be in place as soon as possible for the smooth implementation of project activities.

# (3) Timely submission of monthly report

The Project gets a lot of information from the monthly reports to determine the nature and timing of cooperation. For effective and efficient management of project activities, MINADER should take an initiative to collect and submit the monthly reports in a timely and appropriate manner.

# (4) Increase in seed production

Although the people in Cameroon are getting realized the importance of high quality seeds, a sufficient amount of it has not been produced. The Team recommends that the project and MINADER should organize challenges and consider solutions such as seed transportation, along with improving seed production capacity of key farmers.

# **Chapter 8. Lessons Learned**

# [Upland rice]

- Ten years have passed since the PRODERiP launched. Before the project, there were few people growing upland rice in central, eastern and southern regions, the PRODERiP first introduced upland rice cultivation in these regions. Considering the introduction of new corps, it takes more than 10 years to settle the new crops and technologies. New technical cooperation projects for promotion of new crops in other countries should be considered it and implemented with a long-term perspective.
- Most of farmers grow upland rice for self-consumption and they mentioned that the rice they grow is safe and good taste. The project has also promoted rice as subsistence crop. Yet, some famers sell their surplus and it additionally motivates them. Thus, for further development of upland rice the project needs to work on improvement of rice qualities to sell and in areas where it has been introduced to a certain extent, it is also a good idea to promote upland rice with sales in mind, so that farmers who have improved their skills can sell their surplus rice.

### [Institutional Building] (For the next phase of PRODERIP)

For further rice development, it is important that personnel in a centralized government obtain
the knowledge and skills of rice cultivation. However, the personnel transfer sometimes disturb
to pass them down the central government. Thus, technical manuals would be effective so that
the technology is maintained even when these personnel are transferred.

In addition, it is desirable to establish the specialized department for instance rice promotion department or conduct a national project that specializes in rice promotion in MINADER.

# [Lowland rice]

• The improvement of the productivity of lowland rice was largely attributed to seed purification. Cooperation for lowland rice has commenced since this project decided to work on the seed purification at the beginning. According to experts, the seeds that farmers used before the project were hardly pure and it affected all processes of rice cultivation such as different maturity period and different height. Certainly, there were a lot of cultivation processes to improve, but the seed purification has brought great outcomes on lowland rice farmers. Although improving on the quality of seed is not easy and time-consuming, it is effective for the first step of the technical cooperation for increase in rice production.

(END)

# **ANNEXES:**

Annex 1: Schedule of PRODERIP Mid-term review

Annex 2; Project Design Matrix (Version 1.0)

Annex 3: Plan of Operation (Version 1.0)

Annex 4: List of Equipment Provided

Annex 5: Counterparts' Participation in Training Overseas

Annex 6: List of Counterpart

Annex 7: Revision of PDM

Annex 8: Evaluation Grid

# ANNEX 1

# Schedule of the Mid-term Review

	Day		Activities	Interviewees	Place	Tool
Nov	9	Mon	*West African Time (Japan +8hours)			
INOV	10		0930-1100 Kick-off Meetins/Courtesy call	Secretary General: Mme BAMBOT Grace Project Coordinator: MR.FOLEFACK TSOPKENG Emile UNVDA:Mr. Eric Akonsnui Andansfung CARD: Mr. Ondoa Tobie Manga DEPC: MR MINDJOS MARTIN PAUL	JICA Cameroon Office	TV conference
	11	Wed	0800-0930 Interview to Technical Staff 0930-1100 Interview to Project Coordinator	Group Interview (All staff) MR.FOLEFACK TSOPKENG Emile	MINADER	Skype
	12	Inu	0800-0930 Interview to CARD forcal point	Mr. Ondoa Tobie Manga	JICA Cameroon Office	TEAMS
	13	Fri	0830-1000 DRCQ & DDA	DRCQ: MR NYING CHARLES, DDA: MR FOUDAMA	JICA Cameroon Office	TEAMS
	14	Sat	1000-1130 Interview to DOPA	DOPA: MR KALGON PAGNA		
	15	Sun				
			0800-0900 Interview to GM in UNVDA	Mr. Eric Akongnui Andangfung		
	16	Mon	0900-1030 Interview to DAP & CPs in UNVDA	Group Interview (Mr.Lemmsah Andrew, Yakum Ntaw Lilian, Mawo Mathias Lon, Rosemary NENGE, Nyingchuo Jerome)	JICA Cameroon Office	TEAMS
	17	т.	0800-0900 Interview to Extension Workers in UNVDA⊕	Upper Bamunka: Fonteng Stanislaus Upper Bamunka: Yunji Ezekiel Lower Bamunka: Ngah Genesis	HCA Commercial Control	TEAMO
	17		0930-1100 Interview to Extension Workers in UNVDA♡	Babungo : Galabe Magnus Samnitlube Bangolan: Wubenyi Daniel Monoun : Bawe Divine	JICA Cameroon Office	TEAMS
	18	Wed	0800-0900 Interview to key farmers in UNVDA①	Upper Bamunka-Mgweng : Gwe Lumumba Lower Bamunka-Munyam-1: Tiemunji Samuel Babungo-Babungo : Tisa Ignatius	JICA Cameroon Office	TEAMS
			0930-1100 Interview to key farmers in UNVDA©	Upper Bamunka-Bamunka : Shu John Upper Bamunka-Bamunka : Mbuh Victorine Upper Bamunka-Ntenka : Yaneyubi Agnes		TEAMO
	19		0900-1000 Interview to IRAD 0700-1100 Interview to Farmers in site⊕	Mr.Melie Feyem Marie Noël Makenene- Makénéné Barriere: Mr TEGOFACK	JICA Cameroon Office Project site	TEAMS Skype/WhatsApp
	21	Sat	order from the formattiers in sitem	marchere marchere parriere. Mr requiract	rioject Site	UNIVER HIMLI SAPP
1	22	Sun				
	23					
	24	Tue	0800-0900 Interview to AEP⊕  0900-1100 Interview to SS⊕	Group Interview to extension workers-1st season: Akono - Mfida : NGA MVOGO Sangmelima - AVEBE ESSE : MENDOMO SALOME Ebolowa 2 - MVAN-ESSAKOE: ASSOMO MARIE Group Interviwe to Délégués - 1st season: Akono : ANDELA AWONO,	JICA Cameroon Office	TEAMS
			0800-0900 Interview to AEP⊘	AKONO : MINUELE MINOW, Sangmelima: KPMANG LUC, Ebolowa2 : MEKOU SUZEL Group Interview to extension workers - 2nd season: Lom et Diérem - Manjou - Adirkol: OLAMA Jean Louis,		
	25	Wed	0900-1100 Interview to SS©	Batouri - Batouri Centre: NDABA Bell Jules Mauclair, Makenene - Nyngo: AWOUMOU ANSELME Group Interviwe to Délégués - 2nd season: Lom et Djérem: TCHOUA, Batouri : DANSO Golike,	JICA Cameroon Office	TEAMS
	26		1000-1100 Interview to Délégués Régionale	Makenene : NYEMB LLOGA ALBERT PIERRE Group Interviwe o Delésués Régionale (3 Regions) Center: Ms. MINSO GISELE South: Mr. MESSI SIMON ALAIN East : Mr. NEK	JICA Cameroon Office	TEAMS
	27 28	Fri Sat	0700-1100 Interview to Farmers in site②	Lom et Djérem-Bertoua I-Koumé/Bonis, Mr LONKENG	Project site	Skype/WhatsApp
		Sun				
	30	Mon	(All day) Drafting report			
DEC	1	Tue	13:30 Discussion with experts	100		TEAMS
	2		0900-1100 Discussion with CP	TBD		TEAMS
	4		(All day) Finalizing report and making presentation slides  1000-1100 Final report to MINADER/JICA Cameroon office	Secretary General: Mme BAMBOT Grace Project Coordinator: MR.FOLEFACK TSOPKENG Emile UNVDA:Mr. Eric Akonsnui Andangfung CARD: Mr. Ondoa Tobie Mansa DEPC: MR MINDJOS MARTIN PAUL	JICA Cameroon Office	TV conference

# Project Design Matrix

Project Title: The Project for the Development of Irrigated and Rainfed Rice Cultivation (PRODERIP)
Implementing Agency: Ministry of Agriculture and Rural Development (MINADER) and Upper Nun Valley Development Authority (UNVDA)

Target Group: 15,000 Farming households in the Project Areas (3 Upland Regions 10,000/ Irrigation Sectors 5,000)

Period of Project : 5 years from the despatch of the 1st Expert from Japan
Project Areas : The East. South. Centre Regions and UNVDA irrigation sectors

Project Areas : The East, South, Centre Reg	Leading					
Narrative Summary	Entity	Objectively Verifiable Indicators	Baseline	Target Figure	Means of Verification	Important Assumption
Super Goal: Rate of rice self-sufficiency is improved in Cameroon.		Rate of Rice self sufficiency	-	more than XX%	Agricultural census	
Overall Goak  Sales of irrigated rice and consumption amount of upland rice are increased in the project areas		The amount of marketed irrigated rice of in UNVDA irrigation sectors.	-	1: more than XX tons	UNVDA Marketing Unit, Report of DRADER (Regional Delegation Agriculture and Rural Development) in North-West, Agrifood	Illigal export does not increase Import tax on rice will remain effective.
areas		Annual consumption of self-grown upland rice increases in the targeted household.	2. 39 kg/ year	2: more than XX 45.5 kg/ year	2. ZEW (Zonal Extension Worker) report	<ul> <li>Promotion of PPP policy is maintained in the future policy/strategy on rice sector development in Cameroon.</li> </ul>
Project Purpose:		Rate of increase of amount of rice produced in the project areas	-	1: Irrigated rice more than 42 %, Upland rice more than 36 %	UNVDA Farm Statistics, PRODERIP report, ZEW/SS report (consolidated to DD report)	Promotion of rice sector maintains its importance in the policies of Cameroon.
Production and quality of milled rice are improved in the project areas.		Percentage of consumers who rate the taste of domestic rice as delicious ("OISHI")*1 increases.	2: 30.5 %	more than 50 %	Sample Survery 3 month before the end of Project	
		Rate of increase of whiteness of milled rice produced in UNVDA irrigattion sectors	3: 33	3: more than 38 %	UNVDA Processing/Marketing Unit report, Sample survey	<ul> <li>International price of rice does not drop significantly.</li> </ul>
		Different variety contamination rate of paddy produced in UNVDA irrigation sectors	4: 45 %	less than 10 %	UNVDA Processing/Marketing Unit report, Sample survey	
Outputs:  1. Production of high quality seeds of irrigated		1-1: The genetic purity of certified seed of target rice varieties, produced by the Project is maintained as established as the target in Rice Seed Strategy.	-	1-1: more than 99.8 %	Report from DRCQ Regional Chief of Service for Quality Control (UNVDA, Upland) UNVDA seed multiplication farm (DAP)	Project areas are not seriously affected by natural disasters including droughts and floods.
and upland rice varieties increased in the project areas.		1-2: Certified seed production of target rice varieties in the project areas.	-	1-2: Lowland variety: more than 20 ton/ year (2018-) Upland variety: more than 60 ton (during the project period)	Upland, reports from regional seed multiplication farms. (submitted to Regional Office)	
The number of farmers who cultivate and consume upland rice increases in the project		2-1: Rate of farmers cultivate upland rice two 2 times in 5 years in the monitoring areas.     2-2: Out of farmers who recieved seed, ratio of	2-1: 29.8 %	2-1: more than 35 %	PRODERIP Report (Survey report)	
areas in the Centre, South and East Regions.		2-2: Out of farmers who recleved seed, fatto of farmers who repeat cultivation the following season with in-house produced seed	2-2: 16.6%	2-2: more than 20 %	PRODERIP Report (Survey report)	
Farmers' irrigated rice cultivation techniques are improved in the UNVDA irrigation sectors.		3-1: Average paddy yield per hector of trained farmers.	3.5 ton/ ha	more than 5.0 ton/ha	UNVDA Annual Reports	
Harvest, post-harvest processing are		4-1. Broken rice rate of UNVDA marketed rice	45%	less than 30% (UNVDA)	UNVDA Processing/Marketing Unit report PRODERIP Report	
improved for marketing in the UNVDA irrigation sectors.		4-2 Docakge (impurity) number of UNVDA marketed rice	Stone: 1 stone/ kg Paddy: 40 grains/ kg	stone: less than 1 stone/ 5kg, paddy: less than 20 grains/ kg (UNVDA)	UNVDA DAP, Processing/Market Unit report, Milling machine operator report PRODERIP Report (Project study)	
Activities		The Innance Side		Inputs		Important Assumption
1-1 Develop project strategy on rice seed		The Japanese Side (1) Experts: Long or Short Term Experts in the follwoing experti		Inputs The C (1) Administrative personnel and cour 1) Project Supervisor	ameroon Side	•The trained staffs and extension officers of
				Inputs The C  (1) Administrative personnel and cour 1) Project Supervisor Director, DEPC, MINADER 2) Project Manager	ameroon Side	· ·
1-1 Develop project strategy on rice seed production.      1-2 Produce irrigated rice variety seeds suitable for UNVDA irrigation sectors.		(1) Experts: Long or Short Term Experts in the follwoing expertis multiple expertise) -Chief Advisor -Rice Sector Policy -Seed Production -Rice Cultivation -Farm Management -Extension -Montoring		Inputs  The C  (1) Administrative personnel and cou 1) Project Supervisor Director, DEPC, MINADER 2) Project Manager Chief, Unit of Prospective Analysis ar person equivalent, MINADER 3) Deputy Project Manager Director, Department of Agricultural If	Cameroon Side Interparts:  Inte	The trained staffs and extension officers of MINADER and LRIVDA continue engage in rice sector.  Means of transportation for extension officers are secured for their activities.
1-1 Develop project strategy on rice seed production.     1-2 Produce irrigated rice variety seeds suitable for UNVDA irrigation sectors.     1-5 Establish seed production system of MINADER.     2-1 Develop project strategy to promote updand rice cultivation in the Centre, South and		(1) Experts: Long or Short Term Experts in the following expertis multiple expertise) -Cheir Advise -Rice Sector Policy -Rice Sector Policy -Rice Sector Policy -Rice Sector Policy -Rice Cultivation -Rice Cultivation -Rice Cultivation -Rice Management -Monitoring -Project Coordination -Training -Rice Mill Operation and Management -Post-harvest -Agricultural Machinery		Inputs The C (1) Administrative personnel and cou 1) Project Supervisor Director, DEPC, MINADER 2) Project Manager Chief, this of Prospective Analysis at person equivalent, MINADER 3) Deputy Project Manager Director, Department of Agricultural Citief, Agricultural Extension Service.	Cameroon Side Interparts:  Inte	The trained staffs and extension officers of MINADER and UNVDA continue engage in rice sector.  Means of transportation for extension officers are secured for their activities.  Damage by birds, pests nor diseases does no
1-1 Develop project strategy on rice seed production.     1-2 Produce irrigated rice variety seeds suitable for UNVDA irrigation sectors.     1-3 Establish seed production system of MINADER.     2-1 Develop project strategy to promote upland rice cultivation in the Centre, South and East Regions.     2-2 Conduct TOT on upland rice cultivation and post harvest prosessing in the Centre, South.		(1) Experts: Long or Short Term Experts in the follwoing expertin multiple expertise) Cheir Advisor - Role Sector Policy - Role Sector Policy - Role Sector Policy - Role Sector Policy - Role Froution - Role Froution - Farm Management - Extension - Monitoring - Project Coordination - Training - Role Mill Operation and Management - Post-harvest - Agricultural Machinery - Variety Purification and Selection - Seed Inspection and Certification - Civil Engineering - Construction Supervisor		Inputs The C (1) Administrative personnel and cou 1) Project Supervisor Director, DEPC, MINADER 2) Project Manager Chief, this of Prospective Analysis at person equivalent, MINADER 3) Deputy Project Manager Director, Department of Agricultural Citief, Agricultural Extension Service.	ameroon Side rterparts:  of Agricultural Policies, DEPC, MINADER or a Production, UNVDA National Agricultural Estension and Resarch terson equivalent, MINADER	The trained staffs and extension officers of MINADER and UNVDA continue engage in rice sector.  Means of transportation for extension officers are secured for their activities.  Damage by birds, pests nor diseases does no
1-1 Develop project strategy on rice seed production. 1-2 Produce irrigated rice variety seeds suitable for UNVDA irrigation sectors. 1-3 Establish seed production system of MINADER. 2-1 Develop project strategy to promote upland rice cutilitation in the Certre, South and East Regions. 2-2 Conduct TOT on upland rice cutilitation and post harvest processing in the Certre, South and East Regions of upland rice cutilitation and post harvest processing in the Certre, South and East Regions. 2-3 Conduct extension of upland rice cutilitation and post harvest processing in the Certre, South and East Regions.		(1) Experts: Long or Short Term Experts in the follwoing expertis multiple expertise) Chief Advisor -Rice Sector Policy Seed Production -Rice Cuttivation -Rice Cuttivation -Rice Cuttivation -Rice Cuttivation -Rice Mill Operation and Management -Project Coordination -Rice Mill Operation and Management -Post-Inarvest -Agricultural Machinery -Marketing -Variety Purification and Selection -Seed Inspection and Certification -Civil Engineering		Inputs The C (1) Administrative personnel and oou 1) Project Supervisor Director, DEPC, MINADER Director, DEPC, MINADER Chief, Unit of Prospective Analysis an person equivalent, MINADER 3) Deputy Project Manager prostrought and 10 Content Agricultural Extension Service. Programme, DOPA, MINADER or a 1 (2) Counterpart personnel: -Relevant agricultural officers in the I	ameroon Side rterparts:  of Agricultural Policies, DEPC, MINADER or a Production, UNVDA National Agricultural Estension and Resarch terson equivalent, MINADER	The trained staffs and extension officers of MINADER and LWDA continue engage in rice sector.  -Means of transportation for extension officers are secured for their activities.  - Damage by birds, pests nor diseases does no increase significantly.  - Pre-Conditions
1-1 Develop project strategy on rice seed production.  1-2 Produce irrigated rice variety seeds suitable for UNVDA irrigation sectors.  1-3 Establish seed production system of MINADER.  2-1 Develop project strategy to promote upland rice cultivation in the Centre, South and East Regions.  2-2 Conduct TOT on upland rice cultivation and post harvest processing in the Centre, South and East Regions.  2-3 Conduct attention of upland rice cultivation and post harvest processing in the Centre, South and East Regions.  2-3 Conduct attention of upland rice cultivation and post harvest processing techniques in the Centre, South and East Regions.  2-4 Monitor upland rice cultivation and post harvest processing tractice by key farmers		(1) Experts: Long or Short Term Experts in the follwoing expertin multiple expertise) Cheir Advisor - Role Sector Policy - Role Sector Policy - Role Sector Policy - Role Sector Policy - Role Froution - Role Froution - Farm Management - Extension - Monitoring - Project Coordination - Training - Role Mill Operation and Management - Post-harvest - Agricultural Machinery - Variety Purification and Selection - Seed Inspection and Certification - Civil Engineering - Construction Supervisor		Inputs  The C (1) Administrative personal and coul ) Project Supervisor Director, DEPC, MINADER Director, DEPC, MINADER Clinic Livit of Prospective Analysis at 3) Deputy Project MinADER Director, Department of Agricultural in Contect, Agricultural Extension Service Programme, DOPA, MINADER or a  (2) Counterpart personnel: -Relevant agricultural officers in the I (3) Facilities: -Land, rooms or office space and n for the Japanese experts and releited.	ameroon Side recreate:  and Agricultural Policies, DEPC, MINADER or a Production, UNVDA National Agricultural Estension and Resarch person equivalent, MINADER Project areas	The trained staffs and extension officers of MINADER and LWDA continue engage in rice sector.  -Means of transportation for extension officers are secured for their activities.  - Damage by birds, pests nor diseases does no increase significantly.  - Pre-Conditions
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1-1 Develop project strategy on rice seed production.  1-2 Produce inrigated rice variety seeds suitable for UNVDA trigation sectors.  1-3 Stabilis beed production system of MINADER.  2-1 Develop project strategy to promote upland rice cultivation in the Centre, South and East Regions.  2-2 Conduct TOT on upland rice cultivation and post harvest processing in the Centre, South and East Regions and East Regions.  2-3 Conduct detension of upland rice cultivation and post harvest processing techniques in the Centre, South and East Regions.  2-4 Monitor upland rice cultivation and post harvest processing practice by key farmers and general farmers.  2-5 Train and monitor operators and representatives of farmer associations/cooperatives on the operation and maintenance and management of post-harvest processing machinery.  3-1 Develop project strategy on irrigated rice.		(1) Experts:  Long or Short Term Experts in the follwoing expertin multiple experties)  - Cheir Advisor - Role Sector Policy - Role Cultivation - Farm Management - Extension - Monitoring - Project Coordination - Training - Role Mill Coordination - Training - Role Mill Coordination - Training - Role Mill Coordination - Training - Warriety Purification and Management - Post-harvest - Warriety Purification and Selection - Seed Inspection and Certification - Civil Engineering - Construction Supervisor etc  (2) Training: - Provision of training course in Japan or in the third  (3) Equipment:	se (One expert will cover	(1) Administrative personnel and coul ) Project Supervisor Director, DEPC, MINADER 2014 (1) Project Supervisor Director, Department of Agricultural J Conter, Agricultural Extension Service Programme, DOPA, MINADER or a 10 Project Supervisor DEPC 2014 (2) Courterpart personnel:  -Relevant agricultural officers in the 1 Project Supervisor DEPC 2014 (2) Courterpart personnel:  -Relevant agricultural officers in the 1 Project Supervisor DEPC 2014 (2) Project Supervisor D	ameroon Side recreate:  and Agricultural Policies, DEPC, MINADER or a Production, UNVDA National Agricultural Estension and Resarch person equivalent, MINADER Project areas	The trained staffs and extension officers of MINADER and UNIVOA continue engage in rice sector.  **Neans of transportation for extension officers are secured for their activities.  **Damage by birds, pests nor diseases does no increase significantly.  **Pre-Conditions**  **Pre-Conditions**  **The Cameroon policy on rice development is no changed.  **Alachianizes and equipment used for
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Plan of Operations

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				Project M	onitoringS	heet II (R	evision of P	Project Monitoring Sheet II (Revision of Plan of Operation	tion)							Version 1	
																Dated 31 March,	2018
Project Title:																Moni	Monitoring
Innute		Plan	2016	2017		2018	2019	2020	2021	2022	2023		2024	2025	Demarks	01199	Solution
endi		Actual	Ħ	I I II	I IV II	ишп	и п п	и ппі	шпі	ш п и	1 I I AI	п и и	I VI II	и ш п	Nelligi No	onesi	100000
Expert																	
Chief Advisor/ Rice Sector Policy		Plan													Evacuation and Work in Japan from March 2020	Pandemic of Covid 19	wait
Seed Production/ Rice Cultivation		Plan													Evacuation and Work in	Pandemic of Covid 19	wait
		Plan													Evacuation and Work in		:
Training/ Rice Mill Operation and Management		Actual													Japan from March 2020	Pandemic of Covid 19	wait
Extension/ Farm Management		Plan													Evacuation and Work in Japan from March 2020	Pandemic of Covid 19	wait
Project Coordination/ Monitoring		Plan													Evacuation and Work in	Pandemic of Covid 19	wait
		Actual													Japan from March 2020	_	100
- Short term -																	
Agricultural Machine/ Post Harvest		Plan													Suspended	Pandemic of Covid 19	wait
Variety purification and selection		Plan													Suspended	Pandemic of Covid 19	wait
Seed inspection and certification method		Plan													Suspended	Pandemic of Covid 19	wait
Marketing		Plan													Delayed	Timing of input	
Irrigation and drainage planning/ Plot designing		Plan													Suspended	Security problems	None
a Claimacan a Sharing		Plan													7	Constitution of the consti	o world
100000000000000000000000000000000000000		Actual													naheinen	Silver of the second formation	2
Other Expert as necessary																	
		Plan															
Equipment																	
2 Vehicles (4 x 4 with winch)		Plan													Delayed	procedure	done
1 Pick up (4x4 with winch)		Plan Actual													Delayed	procedure	done
Weather observation unit		Plan															
Tractor		Plan													arrived	security problems	wait or use in Yaounde
Rice processing unit		Plan													arrived	security problems	will be installed at Yaounde
Transplanter		Plan													impossible	Mekers don't sell	cancelled
Combaine harvester		Plan													impossible	security problems	cancelled
Office equipment		Plan															
		Actual															
		Plan															
Orner equipment as necessary		Actual															
Training in Japan	_	\															
Rice Sector Policy		Actual															
In-country/Third country Training																	
Rice Cultivation (Technical Exchange program)		Plan													will be cancelled	Pandemic of Covid 19	
			1														

Output 3: Farmers' irrigated rice cultivation techniques are improved in the UNVDA irrigation sectors.	i irrigation sectors.			
3.1 Develop project strategy on irrigated rice cultivation in UNVDA irrigation sectors.				
3-1-1 Conduct a base line survey on irrigated rice cultivation in the Actual National Nationa		Done	4	
3.2 Conduct Training of Trainers (TOT) on irrigated rice cultivation in UNVDA irrigation sectors.	sectors.			
3-2-1 Develop a TOT plan for irrigated rice cuttivation	Ongoin	On-going and revise	3	continue
nding	5	On-going Und	Under development (collect information)	continue
3-2-3 Conduct trainings to UNVDA extension agents and leader Plan farmers to strengthen technical capabilities of irrigated rice cultivation. Actual	Amortun IIII IIII IIII IIII IIII IIII IIII I	On-going but suspended from March 2020	3	continue
3.3 Conduct extension of irrigated rice cultivation techniques in UNVDA irrigation sectors.	. go			
3-3-1 Conduct trainings for general farmers by extension officers and Plan leader farmers in the pilot sites		just started by UNVDA	1	continue
3.4 Monitor irrigated rice cultivation practices by leader farmers and general farmers.				
3.4-1 Extension workers monitor rice cultivation by leader and general Plan farmers	ans and the second seco	Suspended	2 8	security problems
3.5 Introduce agricultural mechanization model in order to improve productivity of irrigated rice.	aled rice.			
3-5-1 Conduct trainings on operation and maintainance of agricultural Pene   Pe		not started yet	- L	not installed yet because of security problems
4.1 Conducting marketing survey (base line). (for UNVDA)				
4-1-1 Develop a plan of marketing survey (UNVDA).	Amount and a second a second and a second and a second and a second and a second an	On-going but suspended Und from March 2020 (coll	Under development (collect information)	Pandemic of Covid 19
4-1-2 Conduct survey.	p auto	1st & 2nd surveys were done at PROMOTE	0	continue/ Pandemic of Covid 19
4-1-3 Present result of survey to the Project implementation unit.	pros out	The results were shered		continue
4.2 Conduct trainings and monitoring of farmers' on timely harvesting and post-harvest processing of selected rice varieties	sst processing of selected rice varieties.			
4-2-1 Identify appropriate harvest timings of selected rice varieties in Plan each target region.		Under observation	3	Continue data collection and accumulation
4-2-2 Identify appropriate post-harvest processing techniques.	9440000000	Under observation and consideration the techniques	3	Continue data collection and accumulation
4-2-3 Introduce equipment and tools as necessary	They have	They have arrived but not installed yet.	2	
4-2-4 Train extension officers, key/leader farmers and general farmers Plan   Actual	famen (amount of the control of the	On-going but suspended from March 2020	for	for mainly extension staff and leader farmers
4.3 Improve capacity of UNVDA on post-harvest processing and marketing.				
	Jugaran Para Para Para Para Para Para Para	Identified paddy collection point & persons	3	continue
	Divide Communication of the Co	Under consideration und meausre Temp & hunid &	under observation & discussion	continue
4-3-3 Train and monitor operators on the operation and mainenance Plan and management of post-harvest processing machineries.	95	Suspended		security problems

Activities   Sub-Activities	Actual I II	Remarks Achievements	ents   Issue & Countermeasures
Output 1: Production of high quality seeds of irrigated and upland rice varieties increased in the projection	st areas.		
1-1 Develop project strategy on rice seed production.			
1-1-1 Conduct a base line survey on rice seed production in the project		Done 4	
1-1-2 Select target rice varieties for enhancing seed production		1st series are released. 4	2nd series are being selected by UNVDA CP
1-1-3 Develop a technical manual on rice seed production following certification/ quality control procedure (National).		Checking drafted Maual in On-going	
1.2 Produce irrigated rice variety seeds suitable for UNVDA irrigation sectors.			
1-2-1 Formulate UNVDA's seed production plan of irrigated rice varieties	Yedra William	On-going	Depend on extending varieties to farmers
1-2-2 Improve UNVDA seed production plot.	MACHINE MACHIN MACHINE MACHINE MACHINE MACHINE MACHINE MACHINE MACHINE MACHINE	Suspended 1	security problems
1-2-3 Conduct training for UNVDA officers on production of Foundation Seed, Registered Seed and Certified Seed.		On-going On-going	g Continue
1-2-4 Conduct training for seed producing farmers on seed production		not started yet	not identified yet the best farmers
1.3 Establish seed production system of MINADER.			
1-3-1 Develop MINADERs a seed production plan of upland rice cultivation in the Center, South and East Regions.	Plan Control C	On-going (Basic plan was developed at the end of phase I)	Refrected to National Seed Development Strategy
1-3-2 Improve the seed production farms of MINADER used for project activities.		not necessary	
1-3-3 Produce Foundation, Registered and Certified Seed in MINADER.	Plan Actual Plan A	On-going 2	Budgetary problem demande Budget
1-3-4 Conduct training for MINADER officers on seed inspection and certification.	Plan   Pl	not started yet	
1-3-5 Conduct training for seed producers on seed production		not started yet	Under identifying larget farmers & groups
Output 2:The number of farmers who cultivate and consume upland rice increases in the project areas	increases in the project areas in the Centre, South and East Regions.		
2.1 Develop project strategy to promote upland rice cultivation in the Centre, South and East Regions.	e, South and East Regions.		
2-1-1 Conduct a baseline survey on upland rice cultivation in the Center, South, and East Regions.	Plan Actual	Done 4	
2-1-2 Conduct a preference survey on preferences on the taste of and irce cultivation in the Center, South, and East Regions.	Pin Actual Actua	Deleted	-
2-1-2 Determine the pilot sites in the Center, South, and East Regions	Home Home Home Home Home Home Home Home	Done 4	Sites to be changed according to situation
2-1-3 Revise the "Guide for NERICA Cultivation" developed by PRODERIP as necessary	Plan Plan Plan Plan Plan Plan Plan Plan	Still Under consideration	
2-1-4 Determine the contents of technology transfer and key issues in each pilot site.	Plan Adula	On-going 3	Group work
2.2 Conduct TOT on upland rice cultivation and post harvest processing in the Centre, South and East Reg	lons.		
2-2-1 Conduct TOT for SS/AVZ and key farmers on upland rice cultivation and post harvest processing.	Plan Actual	On-going but suspended from March to October in 2020	continue
2.3 Conduct extension of upland rice cultivation and post harvest processing techniques in the Centre, South and East Regions.	lg lechniques in the Centre, South and East Regions.		
2-3-1 Conduct training for general farmers by extension officers and key farmers in the pilot sites	Plan Actual	On-going 3	continue
2.4 Monitor upland rice cultivation and post harvest processing practice by key farmers and general farmer	key farmers and general farmers.		
2-4-1 Monitor rice cultivation and post harvest processing practice by extension officers and key farmers.	Variation of the control of the cont	On-going 3	continue
2.5 Train and monitor operators and representatives of farmer association	2.5 Train and monitor operators and representatives of farmer associations/cooperatives on the operation and maintenance and management of post-harvest processing machineries.		
Z-5-1 Train operators and representatives of farmer association/ cooperatives on the operator, maintenace, and management of post- harvest processing machineries.	Plun Actual Actu	On-going when short term sxpert comes	continue
2-5-2 Monitor by MINADER staff (SS) Delegate) on use of equipment, staff (staff and management of operators/associatioms/cooperatives for inclined areas.	Plan Adula	On-going and regular 3	continue
uplairu areas.			

	Plan																							
Duration / Phasing	Actual																							
	Plan	2016	-	2017		2018	-	2019		2020		2021		50.	2022	2	2023	2	2024		2025	ď		
Monitoring Plan	Actual	Ħ	E	Ħ	I M	Ħ	I M	Ħ	P.	1	Þ.	I I	Ħ	H I	ши	Ħ	Ħ	I	Ħ	-	п	Kemarks	enssi	Solution
Monitoring	\		Ē								Ē		_											
	Plan																					once par year/ 4th JCC has		form
Joint Coordinating Commutee	Actual																					not been doen yet	Pandemic of Covid 19	Wall
	Plan																					ċ		
Set-up the Detailed Plan of Operation	Actual							E						E						É		Done		
	Plan																					1		
Submission of Monitoring Sheet	Actual																					Delayed		
	Plan		Ē																					
Monitoring Mission from Japan	Actual																					<b>-</b>		
	Plan		É																	Ê				
Joint Monitoring	Actual																							
	Plan		É									Ħ		E						É				
FOST MOTITIONING	Actual													_										
Reports/Documents	\													_										
<u> </u>	Plan		É																					
A.	Actual													E						Ē		F		
	Plan										Щ													
Froject completion report	Actual													_										
Public Relations	\																							
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Participation in Promote (Salon International de l'Enterprise de la Practual	ctual																					Postponed to April		
A thought have been districted and an investment of the contraction of	Plan		Ē														_	-						
Participation in Mini-comice Agricole (Center, South, East, and North-Actual	ctual																					ļ		
	Plan																_	_						
Publication of News letter	Actual												-											
Г	Plan																							
Presentation at scientific meeting / Publication to academic society	Actual																							
	Plan																							
Publication of Facebook on project activities	Actual		Ē									Ξ												

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Item	Purchase date	Price(FCFA/JPY)	Name of currency	Place installed	Purpose of purchase	Current frequency of use	Price(JPY)
Platform scale	2016/7/29	77,490 FCFA	FCFA	IRAD Warehouse	to weigh	Sometimes	450,000
Rice whiteness analyzer	2016/12/13	333,720	УРҮ	UNVDA	to analyze whiteness of rice	Often	333,720
Instrument shelter	2016/12/13	101,520	Yql	UNVDA	to shelter thermometer and rain gauses	Installed	101,520
Set of rain gauses	2017/1/13	91,800	Аdг	UNVDA	to measure quantity of rainfall	Installed	91,800
Vehicle of PRODERIP	2017/3/30	5,817,839 FCFA	FCFA	MINADER	to travel and transport	Often	32,201,467
Desktop PC	2016/12/8	89,131 FCFA	FCFA	Office room (C/P)	to collect and organize data	Often	490,000
Scales	2017/1/10	84,182 FCFA	FCFA	Ebolowa	to weigh	Often	450,000
Scales	2017/1/10	84,182 FCFA	FCFA	Batouri	to weigh	Often	450,000
Scales	2017/1/10	84,182 FCFA	FCFA	UNVDA	to weigh	Often	450,000
Desktop PC	2017/2/27	92,032 FCFA	FCFA	UNVDA	to collect and organize data	Often	490,000
Video Projector	2017/9/11	53,946 FCFA	FCFA	UNVDA	to make presentation on training	Sometimes	300,000
Testing rice huller	2017/9/19	912,600	λdſ	IRAD field	to check hulling and bronw rice	Often	912,600
Tipping bucket rain gauge	2017/9/19	138,564 JPY	УЧ	IRAD field	to measure quantity of rainfall	Installed	138,564
Harvest monitor	2017/10/2	57,499 JPY	Ydr	IRAD field	to count growing degree days (GDD)	Used in ripened stage	57,499
Harvest monitor	2017/10/2	57,499 JPY	УЧ	IRAD field	to count growing degree days (GDD)	Used in ripened stage	57,499
Digital scales	2017/10/2	152,841 JPY	Ydr	IRAD field	to weigh	Sometimes	152,841
Testing rice mill	2017/10/2	162,129 JPY	УЯ	IRAD field	to mill rice	Often	162,129
Video Projector	2017/9/11	53,946 FCFA	FCFA	Offlice room	to make presentation on training	Often	300,000
Desktop PC	2017/11/21	75,044 FCFA	FCFA	Office room (C/P)	to collect and organize data	Often	400,000
Three wheel motor cycle	2018/1/17	242,983 FCFA	FCFA	IRAD Warehouse	to transport equipment and machineries frq Often	Often	1,300,000
Laser printer	2018/1/12	1,401,825 FCFA	FCFA	Office room (C/P)	to print and copy	Often	7,500,000
40-foot Container	2018/11/27	63,018 FCFA	FCFA	IRAD Warehouse	to use as warehouse	Often	322,459
Video Projector	2019/2/26	16,368 FCFA	FCFA	Offlice room	to make presentation on training	Often	85,824
Tiller	2018/12/27	725,580	үді	Container	to till fields	Not used	725,580
Instrument shelter	2018/12/27	109,400 JPY	УРҮ	Container	to shelter thermometer and rain gauses	Not used	109,400
Rice thresher	2018/12/27	715,780	ЬД	Container	to thresher rice	Not used	715,780
Tractor	2018/12/27	3,067,200 JPY	ЛРҮ	IRAD Warehouse	to till fiels	Not used	3,067,200
Rice mill	2018/12/27	4,140,350 JPY	ЛРҮ	Container	to mill rice	Not used	4,140,350
Pickup truck	2018/10/29	803,650 FCFA	FCFA	MINADER	to travel and transport	Often	3,988,339
Project car (4WD, SUV)	2019/1/8	1,213,858 FCFA	FCFA	MINADER	to travel and transport	Often	6,293,986
①Subtotal FCFA		10,253,676					55,472,075
②Subtotal FCFA converted to JPY	to JPY	55,472,075					10,766,432
(3Subtotla JPY		10,766,482					66,238,557
Total JPY (2+3)		66,238,557					

ANNEX 5

	Counterpart	s' Participation in Tr	aining Overseas (inc	Counterparts' Participation in Training Overseas (include Third Country Training Program)	g Program)		
Name	Position	Current Position,	Period of	Field/Name of the Course	Content	Implementing Institution	
	at that time	Date of turnover	Participation				
Jisle Nwoibo Tetha	Chief of Seed	Chief of Seed	August 12th, 2017 to	August 12th, 2017 to Post-Harvest Rice Processing Post-Harvest Rice	·	JICA Tohoku & Yamagata	
	multiplication farm, BATOURI	multiplication farm, multiplication farm, BATOURI	September 30th, 2017 for African Countries	for African Countries	Processing 1	Univ.	
Folefack Tsopkeng Emile Deputy coordinator Coordinator	Deputy coordinator	Coordinator	August 12th, 2017 to	August 12th, 2017 to Post-Harvest Rice Processing Post-Harvest Rice		JICA Tohoku & Yamagata	
			September 30th, 2017 for African Countries	for African Countries		Univ.	
Essono Nkoto Rodrigue	Technical staff	Technical staff	Jun 2 <sup>nd</sup> , 2017 to		Rice production	JICA Thailand & Kasetsart	
Thomas			Aug $9^{th}$ , 2017		1	University	
Rose Marry Nenge	Chief of sector in	Chief of service for	July 2nd, 2017 to	Participatory irrigation	Participatory irrigation JICA Sapporo	IICA Sapporo	
	Babungo	technical assistant	August 9th, 2017	management system for	management		
				paddies			
Essono Nkoto Rodrigue	Technical staff	Technical staff	Nov. 4 <sup>th</sup> , 2019 to	Promotion of Agricultural	Strategy of I	IPFAD & JICA Tsukuba	
Thomas			Dec. 21st, 2019	Mechanization for Africa	Mechanization		
Melie Feyem Marie Noël   Coordinator of	Coordinator of	Coordinator of Annual	tor of Annual Jun. 27th, 2019 to	Development of Core	Research work	JICA Nagoyo & Miyazaki	
	Annual Crop	Crop	Aug. 10 <sup>th</sup> 2019	Agricultural Researcher for		University	
				Promotion of Rice Production			
				in Sub-Sahara Africa			

Participants in the invitation program to Japan in 2019

	Name	Title
Mr.	Mr. KALGON PAGNA	DEPC, MINADER
Mr.	Mr. Fidèle Magloire VUNDI	Coordinator PRODERIP
Mr.	Mr. FISSOU KOUMA	DG SEMRY
Mr.	Eugène Ejolle EHABE	Director Scientific Research IRAD

ANNEX 6

List of Counterparts

				22.7.00			
Institution	Name, Position	Area of Specialty	Assigned Period	Name of Expert in Charge	Employmin the In	Employment Period in the Institution	Remarks: e.g. level of involvement in
					From	To	project
MINADER	M. MVONDO NNA Patrick Secrétaire Général	Agricultural Economy	2016.06.26∼now	SOKEI Yoshimi	1994	Up to now	Supervisor (often)
	VUNDI Fidèle Magloire Project coordinator	Seed multiplication	2016.06.26∼now	SOKEI Yoshimi Fujioka Mihoko, SAKAI Masayoshi KURIHARA Kazutoshi	1989	Up to now	Coordinator (Full time)
	FOLEFACK TSOPKENG Emile (Deputy Project coordinator)	Assistant Agricultural Engineer	2016.06.26∼now	SOKEI Yoshimi Fujioka Mihoko, SAKAI Masayoshi KURIHARA Kazutoshi Sugimoto Akira Yoshii Kenichiros	1994	Up to now	Up to now Deputy coordinator (Full time)
	Edang NOA Yves (Technical staff)	Crop production Follow-up Evaluation	2016.06.26∼now	SOKEI Yoshimi Kurihara Kazutoshi Sakai Masayooshi	2011	Up to now	Technical staff (Full time)
	LANYUY MUNTANGHE Mirabel (Technical staff)	Agricultural Extension, rural sociology, Rice production, Post- harvest	2016.06.26∼now	SOKEI Yoshimi Kurihara Kazutoshi SHIINA Suguru Sugimoto Akira Yoshii Kenichiro Sasage Teruhiko	2011	Up to now	Up to now Technical staff (Full time)
	KEPSU TATCHAGO Prisca Yollande (Technical staff)	Agricultural Extension, rural sociology, Rice production,	2016.06.26∼now	SOKEI Yoshimi KURIHARA Kazutoshi SHIINA Suguru SUGIMOTO Akira YOSHII Kenichiro SASAGE Teruhiko	20111	Up to now	Technical staff (Full time)
	ESSONO NKOTO	Post-harvest	2016.06.26~now	SOKEI Yoshimi	2009	Up to now	Technical staff

	Rodrigue Thomas	Mechanization		SASAGE Teruhiko			(Full time)
			•	SUGIMOTO Akira YOSHII Kenichiro			
	AWONO AWONO	Seed Multiplication	2016.06.26~now		2010	Up to now	Technical staff
	Bienvenu			KURIHARA Kazutoshi			(Full time)
	(Technical staff)			SASAGE Teruhiko SAKAI Masayoshi			
UNVDA	Chin Richard	General Manager UNVDA	Manager 2016.06.26	SOKEI Yoshimi	2011.09	2017	General Manager UNVDA
	Eric Andangfung	Economy	2017.02∼now	SOKEI Yoshimi	2017	Up to now	General Manager UNVDA (Often)
	Waindim Francis	Rural Engineer	2016.06.26~now	SOKEI Yoshimi		Up to now sometimes	sometimes
	engineering)			rujioka minoko SAKAI Masayoshi			
	Lemnsah Andrew		2016.06.26~now		2012.05	Up to now often	often
		Bio-resource		KURIARA Kazutoshi			
	Agricultural			SHIINA Suguru			
	Production)			niro			
	Chi Henry		2016.06.26~now		2012.05	Up to now often	often
	(Director of			SASAGE Teruhiko			
	Marketing)			hiro			
	Matias Mawo		2016.06.26~now		2012.05	Up to now often	often
	(Chief of service	Extension	-	SHIINA Suguru			
	training)		,	SUGIMOTO Akira			
	VAKAM NTAW	Αστουοπιν	2016 06 26 <b>~</b> now		2012.05	I In to now	Un to now Technical staff
	Lilian			zutoshi		or or do	(Almost Full time)
	Chief of service for			SASAGE Teruhiko			
	Research &		. 1	KASUYA Masahiro			
	Development)						
	Brillant Sisang (Seed Farm	Seed multiplication   Serm Agricultural	2016.06.26~now	SOKEI Yoshimi KURIHARA Kazutoshi	2013.02	Up to now	Technical staff (almost Full time)
							(

	Management)	Economy		SASAGE Teruhiko			
				KASUYA Masahiro			
	NYINCHUO Jerome	Agricultural	2016.06.26∼now	SOKEI Yoshimi	2013.02	Up to now	Up to now Technical staff
	(Field Staff)	Technician		KURIHARA Kazutoshi		ı	(almost Full time)
				SASAGE Teruhiko			
				KASUYA Masahiro			
	Rose Marry Nenge	Agricultural	2016.06.26∼now	SOKEI Yoshimi	2012.01	Up to now	Up to now Technical staff
	(Chief of service for Technician	Technician		KURIHARA Kazutoshi		ı	(Almost Full time)
	technical assistant)	Extension		SASAGE Teruhiko			
				KASUYA Masahiro			
IRAD	Melie Feyem Marie Agronomy &		plant $2016.06.26 \sim \text{now}$	SOKEI Yoshimi	2011	Up to now	Up to now CP of IRAD
	Noël (Researcher) protection	protection		KURIHARA Kazutoshi			(Part time)
MINADER	MINADER JISLE Nwoibo Tetha Agronomy	Agronomy	$2016.06.26 \sim \text{now}$	SOKEI Yoshimi	2010	Up to now CP at Seed	CP at Seed
	(Chief of Batouri seed			KURIHARA Kazutoshi		ı	production farm
	production farm)						
	Batouri						

# Recommended PDM (DRAFT)

Project Design Matrix

Project Title: The Project for the Development of Irrigated and Rainfed Rice Cultivation (PRODERIP)
implementing A gency: Ministry of Agriculture and Rural Development (MINADER) and Upper Nun Valley Development Authority (UNIVDA)

Version 2.0

Target Group: 13,000 Farming households in the Project Areas (3 Upland Regions 10,000/ Irrigation Sectors 3,000)

Beneficiaries: staff members/extension officers of MiNA DER and UNIVDA, key/leader farmers and machine operators

Period of Project: 5 years from the dispatch of the 1st Expert from Japan + 9 months (until March, 2022)
Project Areas: The East, South, Centre Regions and UNIVDA irrigation sectors

Narrative Summary	Leadin g Entity	Objectively Verifiable Indicators	Baseline	Target Figure	Means of Verification	Important Assumption
Super Goal: Rate of rice self-sufficiency is improved in Community	-	Rate of Rice self sufficiency	37%	more than XX tone XX%	Agricultural consust., FAOSTAT	
in Cameroon.  Overall Goat:  Sales of imigated rice and consumption amount of upland rice are increased in		The sales of marketed irrigated rice in UNVDA irrigation sectors.	200million Fcfa	1. mare than XX tons XX Fcal by 2025	UNVDA Marketing Unit, Report of DR ADER (Regional Delegation Agriculture and Rural Development) in North-West, Agrifood	*llegal export does not increase *Import tax on rice will remain effective.
the project areas		<ol> <li>Annual consumption of self-grown upland rice increases in the targeted household.</li> </ol>	2.39 kg/year	2: more than 42 kg/year	AEP (Extension Worker) report(paddy production), Data of miling	<ul> <li>Promotion of PPP policy is maintained the future policy/strategy on rice sector development in Cameroon.</li> </ul>
Project Purpose:			1-1: -	1-1: <del>Irrigated rice more than 42</del> %, 4,500t	1-1:UNVDA Farm Statistics (sample survey of paddy sales to UNDVA)	
		Rate of increase of Amount of rice produced in the project areas	1-2:	1-2-Uptand rice more than 36 % XXXX	1-2:AEP/SS report (consolidated to DD report) 1-1 & 1-2: Project report	Promotion of rice sector maintains its importance in the policies of Cameroon.
Production and quality of milled rice are improved in the project areas.		Percentage of consumers who rate the taste of domestic rice as delicious ("OISHI")*1 increases.	2:30.5 %	more than 50 %	Sample Survey 3 month before the end of Project	International price of rice does not drop significantly.
		Rate of increase of whiteness of milled rice produced in UNVDA irrigation sectors	3: 33	3: more than 38	UNVDA Processing/Marketing Unit report, Sample survey	
		Different variety contamination rate of paddy produced in UNVDA irrigation sectors	4:45%	less than 10 %	UN VDA Processing/Marketing Unit report, Sample survey	farmers and front line staff are trained an continue to use improved seeds
Outputs:  1. Production of high quality seeds of		1-1: The genesic purity of certified seed of target rice varieties, produced by the Project is maintained as established as the target in Rice Seed Strategy.	-	1-1: more than 99.8 %	Report from DRCQ Regional Chief of Service for Quality Control (UNVDA, Upland)	Project areas are not seriously affecte by natural disasters including droughts ar floods.
Production of high quality seeds of infigated and upland rice varieties increased in the project areas.		1-2: Certified seed production of target rice	-	1-2: Lowland variety: more than 20 ton/ year (every year from 2018)	1-2. Lowland: UNVDA seed multiplication farm (DAP)	
		varieties in the project areas.		Upland variety: more than 60 ton (during the project period)	Upland: reports from regional seed multiplication farms. (submitted to Regional Office)	
The number of farmers who cultivate and consume upland rice increases in		2-1: Rate of farmers cultivate upland rice     3 fine more than twice in 5 years in the     monitoring areas.     2-2: Out of farmers who received seed.	2-1: 29.8 %	2-1: more than 35 %	PRODERIP Report (Survey report)	
the project areas in the Centre, South and East Regions.		ratio of farmers who repeat cultivation the following season with in-house produced seed	2-2: 16.6%	2-2: more than 20 %	PRODERIP Report (Survey report)	
<ol> <li>Farmers' irrigated rice cultivation techniques are improved in the UNVDA irrigation sectors.</li> </ol>		3-1: Average paddy yield per hactar hectare of trained farmers.	3.5 ton/ha	more than 5.0 ton/ha	UN VDA Annual Reports	
Harvest, post-harvest processing are improved for marketing in the UNVDA		4-1. Broken rice rate of UNVDA marketed rice	45%	less than 30% (UNVDA)	UN VDA Processing/Marketing Unit report PRODERIP Report	
inigation sectors.		4-2 Dockage (impurity) sate number of UNVDA marketed rice	Stone: 1 stone/ kg Paddy: 40 grains/ kg	stone: less than 1 stone/5kg, paddy: less than 20 grains/ kg	UN VDA DAP, Processing/Market Unit report, Milling machine operator report PRODERIP Report (Project study)	
Activities		The Issues and		n puts		
1.1 December against attentions on since		The Japanese Side			ameroon \$Ide	Important Assumption  The trained staffs and extension officers
1-1 Develop project strategy on rice seed production. 1-2 Produce infigiated rice variety seeds suitable for UNVDA irrigation sectors. 1-3 Establish heed production system of MNADER. 2-1 Develop project strategy to promote updand rice cultivation in the Centre. South and East Regions.		(1) Experts: Long or Short Term Experts in the following of will cover multiple expertise) will cover multiple expertise)		(1) Administrative personnel and 1) Project Supervisor Director, DEPC, MINADER 2) Project Manager Chief, Unit of Prospective Analy MINADER or a person equivale 3) Deputy Project Manager Director, Department of Agricult	counterparts: sis and Agricultural Policies, DEPC, nt, MINADER	The trained staffs and extension officers of MINADER and UNVDA continue engage in rice sector.  *Means of transportation for extension officers are secured for their activities.  *Damage by birds, pests nor diseases does not increase significantly.
seed production.  1.2 Produce infigiated rice variety seeds suitable for UNVOA irritagion sectors. To 4 statistic head production system of MINADER.  2.1 Develop project strategy to promote upfand rice cultivation in the Centre, South and East Regions.  2.2 Conduct TOT on upfand rice cultivation rice undivision in the Centre, South and East Regions.		(1) Experts: Long or Short Term Experts in the following of will cover multiple expertsize) will cover multiple expertsize) Flace Sector Policy - Geed Production - Farm Management - Extension - Project Coordination - Project Coordination - Flace Management - F		(1) Administrative personnel and 1) Project Supervisor Director, DEPC, MINADER 2) Project Manager Chief, Unit of Prospective Analy MINADER or a person equivale 3) Deputy Project Manager Director, Department of Agricultural Chief, Agicultural Extension Sea and Research Programme, DOF MINADER or MINADER (Chief Manager) MINADER (Chief	I counterparts:  sis and Agricultural Policies, DEPC, nt, MMADER  usel Production, UNVDA  nices / National Agricultural Extension PA, MMADER or a pees on equivalent,	The trained staffs and extension officers of MINADER and UNVDA continue engage in rice section.  *Means of transportation for extension officers are secured for their activities.  *Damage by birds, pests nor diseases
seed production.  12 Production injusted rice variety seeds satisfies for UNIOA religions sectors.  13 Production injusted rice variety seeds satisfies for UNIOA religions sectors.  14 Eachields seed production system of MINACETE.  15 Therefore advised in the Centre, South and East Regions.  25 Conduct ST Or Implied rice unities from any production of profit larger and production and profit larger and profit large		(1) Experts: Long or Short Term Experts in the following of short Term Experts in the following of short countries of the following of the fol		(1) Administrative personnel and 1) Project Separation Director, DEPC, MINADER 2) Project Manager Chief, Unit of Prospective Analy MINADER or a person equivalent 3) Deputy Project Manager Director, Department of Agricultural Extension Serial Research Programme, DOF MINADER or Agricultural Extension Serial Research Programme, DOF MINADER	I counterparts:  sis and Agricultural Policies, DEPC, nt, MMADER  usel Production, UNVDA  nices / National Agricultural Extension PA, MMADER or a pees on equivalent,	The trained staffs and extension officer of MNAD ER and UNVDA confinue engage in rice sector.  *Means of transportation for extension officers are secured for their activities.  *Damage by tinds, peats nor diseases does not increase significantly.  - A policial stability is secured.
seed production.  12 Producte injested rice variety seeds saishté ser UN/OA rissidion sectors.  13 Producte injested rice variety seeds saishté ser UN/OA rissidion sectors.  13 Emblahe seed production system of MINACRE.  21 Develap project strategy to promote salant rice cultivation in the Centre.  50 and end East Répaire.  22 Conduct 107 for nuglarir à re cultivation and post havest processing in the Centre. South and East Répaire.  23 Conduct sexistencion of spland rice cultivation and post havest processing Regions.  24 Monitor spland rice cultivation and post havest processing producte post propriet production and post havest processing producte post propriet production and post havest processing producte post production and grand farmers.		(1) Experis: Long or Short Term Experis in the following of will cover multiple experisos) Chrell Advisor - Ricos Sector Paticy - Ricos Management - Extension - Monitoring - Project Coordination - Training - Project Coordination - Training - Apricated Machinery - Agricultural Machinery - Variety Patification and Selection - Seed Inspection and Certification		(1) Administrative personnel and 1) Project Supervisor Director, DEPC, MINADER 2) Project Manager Chief, Unit of Prospective Analy MINADER or a person equivale 3) Deputy Project Manager Director, Department of Agricultural Chief, Agicultural Extension Sea and Research Programme, DOF MINADER or MINADER (Chief Manager) MINADER (Chief	I counterparts:  sis and Agricultural Policies, DEPC, nt, MMADER  usel Production, UNVDA  nices / National Agricultural Extension PA, MMADER or a pees on equivalent,	The sixed staffs and extension officers of MMADCR and HUNDA continue engage in rice sector.  Means of transportation for extension officers are searcef for their activities.  Damage by birds, pests nor diseases about not
seed production.  12 Producte injested rice variety seeds saidable for LINDAA ringition sectors.  13 Producte injested rice variety seeds saidable for LINDAA ringition sectors.  13 Estables beed production system of MIMACREA.  21 Develop project strategy to promote updant rice subvision in the Cerree.  20 Conduct activation in the Cerree.  22 Conduct TOT on updand rice collision and Estables Province seeds production and post harvest processing the Cerree. South and Esta Regions.  23 Conduct extension of updand rice cultivation and post harvest processing between some seeds and post harvest processing between some seeds and post harvest processing seeds required to the control of the certee. South and Esta Regions.  24 Moreiror updand rice cultivation and post harvest processing process for by law years and post harvest processing processing seeds required to the control of the certee		(1) Experis: Long or Short Term Experis in the following of will cover multiple experisos) Chrel Advisor - Ricos Sector Policy - Experisor - Farm Management - Extension - Monitoring - Project Coordination - Training - Project Coordination - Training - Agricultural Mackinery - Management - Post harvest - Agricultural Mackinery - Management - Post control Receiver - Sector		(1) Administrative personnel and project pe	I counterparts:  sis and Agricultural Policies, DEPC, nt, MMADER  usel Production, UNVDA  nices / National Agricultural Extension PA, MMADER or a pees on equivalent,	The sained staffs and extension afficers of MMADER and MVNAC continue empage in rice sector.  Means of transportation for extension of the control of the activities.  **Damage by binds, pests nor diseases does not increase significantly.  **A polical stability is secured  **COVID-19 does not outbreaks  **Pre-Conditions  **The Cameroon policy on rice development is not throught.  **The Cameroon policy on rice development is not throught.
seed production.  12 Production injusted rice variety seeds suitable for LIV Production injusted rice variety seeds suitable for LIV Production injusted rice (LIV Production in Production in Production in Production rice Centre, South and East Regions.  2.2 Conductal TO I required rice cultivation and past flavored production and past flavored rice cultivation and past flavored rice (LIV Production and Produ		(1) Experts:  (1) Experts: Long or Short Term Experts in the following of will cover multiple expertsize) will cover multiple expertsize) silico Sector Policy Seed Production -Farm Management -Extension -Monitoring -Farm Management -Extension -Training -Ricc Mil Operation and Management -Post harvest -Agric utural Machinery -Mattaleting -Control Management -Condition of Section -Seed Inspection and Section -Seed Inspection -Seed In		(1) Administrative personnel and 1) Project Sperior Director, DEPC, MINADER Director, DEPC, MINADER Director, DEPC, MINADER Director, DEPC, MINADER CONTROL OF THE PROPERTY O	is and Agricultural Policies, DEPC,  It, MINADER  until Production, UNVDA  rocker Material Agricultural Extension  PA, MINADER or a person equivalent,  see Project areas  and necessary facilities in MINADER  species and reduced saff enthers.  for insulation and storage of fee resultation and storage of the  resultation and storage of fee for insulation and storage of fee  resultation and storage of  resultation and  resul	The sained staffs and extension officer of MMADER and MVDA continue engage in rice sector.  *Means of transportation for extension officers are secured for their activities.  *Damage by birds, peets nor diseases does not increase eignificance.  *Damage by birds, peets nor diseases.  *Damage by birds, peets nor diseases.  *Damage by birds, peets nor diseases.  *Pee-Conditions.  *The Cameroon policy on rice development is not chapsed.
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<sup>##</sup> debas (inscrib)
The actual regulations, 22-1,400 transport (just of 4, 50), 2-2, 22 transport (just of 4, 100), Due to decrease of seed production caused by the decrease of its budget of MINNOER, delivery of seed also decreases less than the Base line. The number of extension projects is east to the decrease of extension private, which effects the number of splant rise furners.

# **Evaluation Grid**

				Verification of Performance
E	va luatio n Questions			
Main Questions	Sub-Questions	Information needed	Information source	Survey Results
Were the Inputs allocated as planned?	Have Japanese experts been dispatched as planned?	Comparison of plans and results	Project documents* Japanese experts	The following are being dispatched as scheduled.  (1) Six for_term experts were dispatched to the following areas: chief advisor/sice promotion policy, seed production/sic cultivation, farm immagnement estemation, monitoring bisusses coordination 1 and 2, and training rice miling machine operation and management.  (2) Short-term experts: 4 experts in the fields of variety purification and selection technology, seed inspection technology, post-harvest processing agricultural machinery, and cold engineering.  The deteriorating security situation in UNVDA prevented the Japanese experts from visiting the site. COVID-19 made experts' visit to Cameroon suspended.
	been provided as planned?	Comparison of plans and results	Japanese Experts	There are equipment and machinery provided to PRODERIP. The total value of them is 66,238,577 JPY (equivalent to 351,435,288 FCFA). Out of 66,238,577 JPY (equivalent to 351,435,288 FCFA), 36,014,399,JPY (equivalent to 194,261,355 FCFA) (379%) and 21,869,108 JPY (equivalent to 116,028,739 FCFA) (379) was spent in 2017 and 2018, respectively.
	Has the installed/provided equipment been properly used and maintained?	Comments from experts Results of observation	Project documents Japanese Experts	Nost of the equipment and machinery is properly used. All office supplies, such as a desktop PC and a laser printer, and means of transportation, such as vehicles and motors; yels, an frequently used. Out of equipment and machinery specialized for rice production and processing, a rice whiteness analyzer, scales, a testing rice hulter, and a testing rice milter are often used. An instrument shelter is installed as a spare in IRAD and is replaced when the current ore is damaged. The Project intended to use a tiller, a nece frencher, a factor in the field in Ndop plots. But for safety reasons, it has not been accessible. A milting plant will be installed when the waveshouse is ready.
		Comparison of plans and results Comments from participants	Project documents Japanese Experts	The counterpart training was conducted in Japans and the third country with 15 participants from MNADER and UNVDA as follows. Training in 2017 were Country-focused trainings, which 5 trainess participated. They were organized by Saga University 4 trainines participated in invitation program to Japans in 2019. The objectives of the trainings were to learn Japanses Thai rice production technology such as agricultural machineries, ringation, and distribution and sales system or agricultural products. The participants also learn the large-scale production process of high-quality rice seed and organizational structure, as well as impection technology of high-quality rice seed production and seed certification, and how to reflect what they learn to enter agricultural products.
	For what and how much were local costs paid by the Japanese side?	and results	Project report	Total equivalent to 224,999,000 JPY (1,232,808,220 FCFA) has been provided to supplement a portion of local expenditure for Japanese Fiscal Year (JFY) 2016-2019 (up to the end of January 2019).
	Has the budget required for managing the project been allocated by the Cameroon side? Is it being executed efficiently?	Comparison of plans and results	Project documents	The Cameroonian side provided 390,000,000FCFA of CP fund and 170,000,000FCFA of Pub is. Investment Budget (PIB) as the operational costs. For PIB, the revenue was largely declared as the impact on the overall economy of the country due to COVID-19 and others.
		Comparison of plans and results Result of observations		In total 15 counterpart personnel, 9 officers were appointed from MNADER, and 6 officers from UNVDA. As for the division supervisors and extension workers, 171 extension workers and 14 division supervisors were appointed in the first cultivation season of 2019. In the second cultivation season of 2019. Set extension workers and a sixties in supervisors were appointed. In total, 274 of them are appointed. The necessary office space and fields have been provided at the MNADER, UNVDA, and IRAD for daily activities of the Japanese experts and personnel
	telecommunication network, and facilities equipped as planned?		Japanese Experts IIGranos	hard by PRODERIP. For example, MNADER growlded PRODERIP with the seed fields in Batouri. IRAD growlded the seed fields of agricultural high school under MNADER in Biytil and Nicoemvone field in Ebolowa of South region to produce RS and CS. Some spaces to keep equipment and machinery were also provided.
	For what and how much were local costs paid by the Cameroon side? Outputl: High quality seeds production of	Comparison of plans and results Comparison of targets	Project document Project Stakeholders Project documents	The Cameroonian side provided 390,000,000FCFA of CP fund and 170,500,000FCFA of Pubic Investment Budget (PIB) as the operational costs. For PIB, the revenue was larrely decired as the impact on the overall economy of the country due to COVID-19 and others.  Partially achieve, but offer are some indicators which need further data collection.
in PDM, have the Outputs	imgated nice and upland rice varieties increased in the target area is increased.	and results	Japanese Experts MINADER UNVDA	Indicator1-13 The genetic purity of certified seed of target rice varieties, produced by the Project is maintained as established as the target in Rec Seed Structy (more than 98 pb/NC) purity, stated in the Seed Structy persent by ANN-ADER in 2015. The achiesement of the target figure is not income yet, as the genetic purity was not measured due to the instantive return of the Appenses expert team. However, according to DRCQ and SR3Q, any problems have not been detected by their suspect tools used the time of the Review survey. The Japanese expert will conduct survey to confirm the genetic purity with the CP Defent returning to Cameroon.  Indicator1-21 Certified seed production of target rice varieties in the project areas will bemore than 20 ton'year (logwland), and more than 60 ton (sph. and).  [Low land rice seed]  PRODEREP multipaded a total of 30 tons of CS (20 tons of Tox 2 and 10 tons of Local 2), which exceeds to the target figure.  [Upland rice seed]  CS production of upland rice did not reach the target figure because (1) the continuous seed production causes the degradation of soil quality. Consequently, the brown spots were occurred, and 1 of 4 seed jobs were severely damaged. In stinbug-misted fields, yields were as low as 0.3ha. In Batout, cultivation of 2 crop seasons were turned, and (20 them as lack for budget and its delay indistrument for the activities.
	Output2: The number of farmers who cultivate and consume upland the increases in the project areas in the Centre, South and East Regions.	Comparison of targets and results	Project documents Japanese Experts MMNADER extension workers Core/General farmers	Not a chieved yet. Indicator 2-1] Rate of farmers cultivate upland rice two 2 times in 5 years in the monitoring areas increase from 29.8 % to 35%: the indicator is not achieved yet, even though the rate of farmers who cultivated upland rice twice for the seeded farmers increased by 18.5% in 2017 and 28.1% in 2018 (23.9% on average) [Indicator 2-2] Out of farmers who received seed, ratio of farmers who repeat cultivation the following season with in-house produced seed increase from 16.6% to 20%:  The percentage of farmers who collected seeds from their fields has been increasing since 2017 as below. However, it is resulted that the indicator is not achieved vist (7.4% 2017, 13.1% 2018, 14.3% 2019)
	Output3: Farmers' irrigated rice cultivation techniques are improved in the UNVDA irrigation sectors.	Comparison of targets and results Presence and quality of field workers	Japanese Experts UNDVA extension workers C ore/General farmers	Achier ed.  Indicator3-11 Average paddy yield per hectare of trained farmers will be more than 5.0t/ha:  The indicator in 2019 is likely to be achieved at the project seed multiplication field in Ndop. (TOX2:7.5tha, Local2.6.0tha)
	Output: Harvest, post-harvest processing are improved for marketing in the UNVDA irrigation sectors.	Comparison of targets and results	Project do cuments Japanese experts MINADER UNVDVA rice mill operator	Achieved.  [Indicator4.1] Broken rice rate of UNVDA marketed rice will decrease from 45% to 30%:  The indicator has been achieved as shown in Table 6. The broken rice rate of higher quality rice (700 FCFA/kg) to sell for a supermarket is less than 30%, and the average of those rice and the acceptable quality rice (700 FCFA/kg) is 20.04%.  [Indicator4.2] Dockage (impurity) number of UNVDA marketed rice will decrease from 1 stone/5kg (Stone), 40 grains/ kg (paddy) to less than 1.0 grains/ kg (pa
Comparing with the indicators in PDM, will objectives of the Project to achieved "-the Project to achieved" -the Project Purpose PD duction and quality of milled rice are improved in the project areas.]	Inlik abr 1. Rate of increase in nee production in the target area  2. The increase in the precentage of consumers who rate the taste of domestic rice as "OISHI"  3. Whiteness of rice produced in UNVDA impains of every price produced in UNVDA impains of every produced in UNVDA impains a produced in UNVDA impains a produced in UNVDA impains sectors	Target figure Comparison of targets and results	Project do cuments Japanese experts MIN-ATER UNVDV'A rice mill o perator	Achieved or likely to be achieved except for indix nort I Indix ator1 Rate of increase of amount of rice produced in the project areas will be more than 42 % (low land) and more than 36 % (upland): [Low land].  [Low land]  The Propert for the achievement is positive, even though the indicator I is not largown.  The Propert for the achievement is positive, even though the indicator I is not largown.  The Propert for the achievement is positive, even though the indicator. I is not largown.  The Propert for the achievement is positive, even though the indicator. I have been described in the production of the upland rice is 238 toms, which is 56.7% of the target figure, as shown in Table 9. The project speculates that the production will not reach its target by its end, even if the production in 200/21 is added on top  "Ap part of the indicators of PRODERIP Purpose is unlikely to be archieved [Indix ator2] Percentage of communers who rate the taste of domestic rice as delicious ("OISHI")*1 increases from 30.5% to more than 50%: Indicator2 is expected to be achieved as the average whiteness of milled rice parts of the produced in UND DA irrigation sectors will be from 33% to 38%  The Indicator3 is expected to be achieved as the average whiteness of milled rice parts produced in UND DA irrigation sectors will decrease from 45% to 10%  The indicator is expected to be achieved as Table II shows that the mixture into each variety is less than 10%.>>achieved.  The indicator is expected to be achieved as Table II shows that the mixture into each variety is less than 10%.>>achieved.

<sup>\*</sup> Documents from the Project: MM, R/D, Report of Detailed Plan Survey. Monthly Report, documents provided by the Project for the Mid-term Review

				Implementation Process
Evaluat	ion Questions			
Main Questions	Sub-Questions	Information needed	Information source	Survey Result
Were activities	Have the Project activities	Comparison of plans and results	Project documents	Since its commencement, the project has implemented the activities generally as planned as indicated in PO.
implemented as	been implemented in line with	PO	Japanese experts	Some activities such as the selection of good farmers/groups as the possible participants of training for seed producers on seed production, and
planned?	the PO?		MINADER UNVDA	TOT for division supervisors/ extension workers and key farmers on upland rice, are not implemented in 2020 due to COVID-19.
Was the change in	Were the content of PDM and		Project documents	At the first JCC (April 7, 2017), the revisions and additions of indicators and activities to the PDM were discussed between Japanese experts team
project plan appropriate?	process appropriate?	Comments from Cameroonian	MINADER UNVDA	and C/P and approved.
appropriate?		JCC minutes	JCC documents	
Is there any problem in	Are measures to transfer	Comments from Japanese	Project documents	The Technical meeting have been held every two weeks among C/P of MINADER, UNVDA and Japanese expert team. Since the security problem
the measures to transfer	skill/knowledge/techniques	experts, C/P, and T/G on the	Japanese experts	occurred in Northwest Region, the C/P of UNVDA attend the meeting in Yaoundé. Even after the outbreak of COVID-19, the project team continues
skill/knowledge/techniqu		contents of training, method, and		the meeting remotely.
es?	Are targets for skill/knowledge/techniques	level of skill/knowledge/techniques	UNVDA extension workers	
	transfer appropriate?	transfer	Core/General farmers	
Is there any problem in	Does JICA Cameroon Office	Comments from Japanese experts		Monitoring sheets have been submitted up to 4 versions as of October 2020.
the project management	promptly adjust project	Comments from JICA Cameroon	Japanese experts	
system (monitoring	activities, provide advice, and	Office	Economic Development	
system, decision-	communicate with related		Department of JICA	
making process, functioning of JICA	agencies based on the monitoring result?		JICA Cameroon Office Project stakeholders	
Camero on.	monatoring result:	Punctual submission of	JCC documents	
communication		monitoring sheets and comments		
mechanisms among		from JICA on it		
project staff)?	How is each activity of the Project monitored and what is	Measure and frequency of monitoring of each activity	Project documents Japanese experts	[Land rice] The project monitors the implementation of upland rice cultivation and post-harvest processing among core and general farmers as Activity 2-4.
	improved as a result of the	Submission of monitoring sheets	Japanese experts JICA Headquarters	The project mountors the implementation of upland nee cultivation and post-harvest processing among core and general farmers as Activity 2-4.  The project has created a monitoring database and monitoring sheets for extension workers, which they submit to the project.
	monitoring?	from C/P	JICA Cameroon Office	
	Issues of the monitoring and			The project visits the fields of upland rice farmers to check the progress of upland rice cultivation by the group and address the issues.
	actions to be taken to deal			[Paddy rice]
	with the issues?			The project has been monitoring the imigated lowland rice cultivation of leader farmers and general farmers as Activity 3.4.  The project changed the frequency of meetings from once a month to every other week following the voluntary restraint on corporate travel to the
				Northwest region. (April 2018)
				[Data collection using monitoring sheets from extension workers]
				Each extension workers writes on a monitoring sheet prepared by the project and sends a copy of it along with a monthly report to the project of fice.  At present, the secretary (formerly CP) types it up and sends it by email. Extension workers send photos directly to CPs and secretaries via
				WhatsApp, but the Director of Agriculture in each division asks that the monthly report from the extension workers be compiled before sending it to
				them, so it's basically a direct mailing. It would be good if the extension workers could input data on the filed and upload photos and so on, but for
				now they have to write by hand because the screen of the mobile is too small to use, and there are few extension workers with computers. It takes
				time to go through the director of each agriculture bureau, and only about 20% of the sites are able to punctually submit a monthly report. Especially at the time of sowing and harvesting, extension workers are also very busy, so the submission tends to be delayed. Sites located on the way to
				Batouri and Ebolowa can be collected relatively quickly with advance notice, as they stop by on business trips to seed production plots, but this year
				the monthly reports were submitted later than usual because the number of business trips was limited. There are some cases that monitoring sheets
				are not submitted because of deterioration of relationship between core farmers and extension workers, or extension workers and director of
				department of agriculture in district and transfer of extension workers. There are alot of successful farmers in charge of extension agents who fill out monitoring sheets nearly as they take detailed data.
Do the implementing	How do MINADER and	MINADER's and UNVDA's	Project documents	monitoring sneets nearly as they take detailed data.  According to MINADER, there is a need to shift from import rice to export rice and to balance trade, and PRODERIP is getting a policy push from
agency, C/P, and T/G	UNVDA recognize the Project		MINADER	the government.
well understand/actively	activities?	involvement in the Project	UNVDA	The objective of the project is in line with the needs of respective level of Cameroonian society from the officers of MINADER and UNVDA to
participate in the			JCC documents	farmers of upland and lowland rice in the field. MINADER and UNVDA have a strong aspiration of upland rice and lowland rice development to
project?	Does T/G actively participate	Recognition of Core / General	Project Report	achieve the national goal which increase self-sufficiency of rice.  Farmers that the project is effective to increase their rice production.
	in the activities?	farmers for the Project	Japanese experts	
			MINADER	
		training	UNVDA	
Are appropriate	Are the C/P (employee for	Change in organizational structure	Core/General farmers Projects documents	With the reorganization of PNVRA, there was competition to higher extension workers between this project and the French project (AFD) (May
personnel assigned as	MINADER, UNVDA)	such as establishment of	Japanese experts	2018). Subsequently, it was decided to utilize MINADER internal personnel (CPA, CEAC, CFR) as new extension workers. (June 2018)
C/P?	arranged as planned?	extension section	MINADER	
		Role of C/P as a collaborator	UNVDA	
		with other organizations and a technical collaborator		
	Are the number of C/P, their		Projects documents	The number of extension workers is insufficient.
	roles, positions, capacity and	structure from project	Japanese experts	
	assignment relevant?		MINADER	
	Is the number of T/G		UNVDA Projects documents	At the time of planning, the target group was "23,000 farmers (10,000 in three regions and 13,000 in irrigated areas) in the project area," but as of
	relevant?	Reas on and relevance of the	Japanese experts	At the time of planning, the target group was 23,000 families (10,000 in three regions and 13,000 in imagated areas) in the project area, out as of February 2018, the number of families in irrigated areas were reduced from 13,000 to 5,000.
	a constitution of the cons		MINADER	a comment a comment of the state of the stat
		size of T/G)	UNVDA	
	Which organizations are	Organizations and activities	Projects documents	Non-T/G benefit from the project using quality seed from the project.
	involved in this project other than the direct beneficiaries?		Japanese experts	
	How deeply are these	Remarks	UNVDA	
	organizations involved?			
	than the direct beneficiaries? How deeply are these	apart from T/G	MINADER	

				IX easy made	
	Evaluation Questions	Judgment	Information needed	Information source	Survey Results
fain Questions	Sub-Questions	Judgment	Information needed	Information source	Survey Kesults
Needs	Is the Project's objective [Production	Needs to increase rice production is s	Il Time series data of rice and	Reports indicated below	[Trend of rice production, consumption and imports]
	quality of milled rice are improved in	project high	paddy production	(*1~*4)	Rice production: 65,000 tons (2008; actual)*1 to 330,000 tons (2018; actual)*2 (970,000 tons (2018; target))*1
	areas], appropriate as a measure to so			Reports on CARD	Rice consumption: 19 kg (2008)*3*4 to 35 kg (2018)*3*4
	of agricultural development in Camer	development problem			Rice import volume: 430,000 tons (2008)*2 to 730,000 tons (2017)*2
					Demand of rice is increasing and the government of Cameroon would like to promote rice production, but it is not progressing due to econo
					challenges.
					Demand of rice is increasing and the profitability of rice is higher than other crops. The quality of the project's lowland rice is better than imported rice (300-400 FCF A/kg) sold in the general market.
					Imported nice (300-400 F CF Avgg) soils in the general market.  Number of private rice seed companies is limited and MINADER needs to produce rice seeds (private companies' entry is expected).
					In addition to seed production, the challenges include adoption of different production environments in different regions, and mechanization
					land preparation and post-harvest processing. MINADER believes that 1,000 hectares of seed production plots are needed to grow 3,000 tos
	Is the Project still in line with the need	f Objectives of the Project still match th	N-4	Project Report	of rainfed rice seeds per year.  TICAD7 (2019) launched CARD Phase 2 with the goal of "Doubling rice production by 2030 (from 28 million to 56 million tons).
	MINADER and UNDVA at present?	needs of MINADER and UNVDA	UNVDA	Japanese experts	Cameroon is a target country for CARD Phase 1 and 2. The RICE approach in Phase 2 is focused on 1) stabilizing production, 2) promoting
	-			MINADER	local industries (rice milling and agricultural machinery), and 3) improving the quality of domestic rice.
				UNVDA	MINADER has set a target to produce 150 tons of seeds per year.
				National Policy Program Websites on CARD	The selected varieties of both upland and lowland rice are suitable for the characteristics of the region.
1	Is the Project still in line with the need		Change of needs of other related	Project Report	IRAD participates in seminars and trainings to enhance seed purification technology through cooperation in the production of basic seed (BS
	related organizations at present?	needs of the related organizations	organizations but MINADER		and foundation seed (FS).
	Is the Project still in line with the need	Chinaina and Project of Court of	and UNVDA	D	75. 6
ļ	is the Project still in line with the need farmers in the target area?	f Objectives of the Project still match the needs of the related organization	Change of needs among Core/General farmers	Project Report Target Core/General	The farmen who participated in the project have increased their yields. Seeds obtained from the project are of high quality with high disease resistance and high yields. In addition, overall cultivation techniques have improved, including sowing, firtilization, water management, storage
				farmers	after harvest, use of sickles, and drying methods.
				Japanes e experts	Core farmers provide free technology transfer to neighboring farmers, and their benefit is to receive training first.
- 1					General farmers have received guidance from the core farmers to increase their yields. However, even if farmers learn the theory, there are ca where they cannot apply it in practice.
					where they cannot apply it in practice.  Farmers want to mechanize cultivation and harvesting, but farm roads are not well facilitated and manufacturers are reluctant to sell them, mail
			1		it difficult to implement.
[	Is the Project in line with the direction	Objectives of the Project match	Contents of Related policies	MINADER	[Agriculture and Rice Cultivation Policy]
- 1	agricultural and rural development un development policies of Cameroon?	the Cameroonian policies on seed production and human resource	and strategies	UNVDA	Regional Integration Strategy Paper (2019-2025): targets improved access to water resources leading to agricultural development in the Centr.  African region
	our asymmetry possible or Cattlef00ff	development			Assexts region Vision 2035: increases agricultural productivity, specifying the importance of agriculture in entening the middle-income nation. The introduction
- 1		1 -			of 1.2 tractors per hectare of cultivated land is targeted (2035).
		The varieties selected in the Project	S elected varieties	MINADER	Rice is identified as an important crop in Cameroon's rural development strategy.  The upland rice varieties NERICA 3, NERICA 8 and low land rice varieties the TOX, and local varieties were selected for the project. These
		match the needs of C/P	2 erected varieties	UNVDA	Institute the project of each target area.
- 1	Is the project in line with Japan's cou-	Objectives of the Project match	Japanese Assistance Policy and	Country Assistance	The project is part of an agricultural promotion program in the Country Assistance Policy of GoJ that aims to enhance growth through
	assistance policy and JICA's impleme	tion Japanese Assistance Policy for	priority areas	Policy (December 2012)	economic diversification of the rural areas, including the improvement of agricultural technologies with attention to women's participation and
	strategy?	Cameroon		Business Development Plan (April 2016)	utilization in the project development plan.  Cameroon has been a member of CARD since Phase 1 and is considered as one of the most important countries for nice promotion. This
				Ministry of Foreign	project also supports lowland rice to increase production and improve its quality. As a leader in Central Africa, Cameroon is expected to
				Affairs HP, JICA	promote lowland rice and upland rice production.
	*			Headquarters	
dequacy as measure	Is a trategy of the Project appropriate development issues in agriculture sec	ackle Selection of target provinces, three of provinces and irrigation area in Nun	Production of rice production in target areas and its proportion in	Project Keport Japanese experts	The upland rice continues to cover the three regions that were covered by the previous phase.  Three sectors (Upper Bamunka, Lower Bamunka and Babungo) were selected for low land rice out of the five UNVDA irrigated sectors, whi
illeasoie	Cameroon?	Valley, is appropriate for developmen	national production	MINADER	account for 80% of farmland and farmers.
		of upland rice production and irrigated	Security situation in imigated rice		
		rice production	2502	National Policy Program	
1		Increase of rice seed production,	Number of upland rice farmers Comparison between an	Websites on CARD Project Report	The project is contributing to the promotion of rice farming in Cameroon by increasing production and improving quality.
		cultivation and consumption of uplant	approach used and the current	Japanes e experts	
		des formanions of todays 4 dec	situation	MINADER	
		rice, improvement of irrigated rice	31020011		
1		technology, and improvement of	3.00E.0011	UNVDA National Policy Program	
		technology, and improvement of technology of harvest and postharves procedure contribute to increase of ris		National Policy Program	
		technology, and improvement of technology of harvest and postharvest procedure contribute to increase of ri- production and improvement of rice			
	I. di	technology, and improvement of technology of harvest and postharvest procedure contribute to increase of ri- production and improvement of rice quality.	0	National Policy Program Websites on CARD	
	Is there any mutual benefit from coor with other development agencies?	technology, and improvement of technology of harvest and postharves procedure contribute to increase of ris production and improvement of rice quality There is a synegy from a collaboratio	0	National Policy Program	Autonomistation des Communavetes et Constitution de Paix Dies La Region de L'Edstrerne Nord Du Mamerous in the Far Northen     Presiste nell'INTP.
	Is there any mutual benefit from coor with other development agencies?	technology, and improvement of technology of harvest and postharvest procedure contribute to increase of ri- production and improvement of rice quality.	The latest situation of other development partners and examples of collaboration with	National Policy Program Websitss on CARD  Project Report Documents of other development partners	Province of UNDP
		technology, and improvement of technology of harvest and postharvest procedure contribute to increase of it production and improvement of rice quality There is a synergy from a collab oratio with other development partners	The latest situation of other development partners and	National Polecy Program Websitss on CARD  Project Report Documents of other	
		technology, and improvement of technology of harvest and postharvest procedure contribute to increase of it production and improvement of rice quality There is a synergy from a collab oratio with other development partners	The latest situation of other development partners and examples of collaboration with	National Policy Program Websitss on CARD  Project Report Documents of other development partners	Province of UNDP  2. FAO AINADER Rice Farming Project (Partnership for Sustainable Rice System Development in Sub-Subaran Africa)
		technology, and improvement of technology of harvest and postharvest procedure contribute to increase of it production and improvement of rice quality There is a synergy from a collab oratio with other development partners	The latest situation of other development partners and examples of collaboration with	National Policy Program Websitss on CARD  Project Report Documents of other development partners	Province of UNDP
	with other development agencies?	schrology, and improvement of technology of harvest and postaneous procedure contributes to increase of ris production and improvement of rise quality.  There is a syssegy from a collaboratic with other development partners' project is	The latest situation of other development partners and examples of collaboration with them	National Policy Program Websitss on CARD  Project Report Documents of other development partners	Province of UNDP  2. FAO MINADER Ric e Farming Project (Partnership for Sustainable Rice System Development in Sub-Saharan Africa)  3. FAO's Partnership for Sustainable Rice System Development in Sub-Sahara Africa in the Northwest Province  4. KOICA's project in Central Province (name is unknown)
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			Effectivene	ess (Estimation)	
	Evaluation Questions		Information needed		Survey Results
Main Questions	Sub-Questions	Judgment	Information needed	Information source	Survey Kesuits
Achievement forecast for the Project Purpose	Is there a prospect to achieve the Poject purpose? Project purpose: [Production and quality of milled rice are improved in the project areas]	achieve target figures of each indicators	Relevance between objectives and target figures The current production quantity The number of Core farmers	•	to night. Rice farming is not the only opion, and there are other crop choices. This discourages people to continue even if they have grown upland rice once. Access to the milling machine is also a challenge CP bedieves that if there was an easier way to grow upland rice, more people would continue to grow it.  Farmers are motivated to self their rice in the market, not just for their own consumption. People buy it because it is of good quality and state.
Causality	How much of the Outputs has been achieved (will be achieved)?	achieved	Contents of Outputs Goal of each indicator and achievement	Project document Japanese experts MINADER UNVDA	The achievement levels of the four Outputs are different between upland and lowland rice. The achievements of some indicators are also unknown. Two indicators out of four indicators are likely to be achieved.
	How each output contribute or limit the achievement of Project Purpose?	,	Contributing factors and constraint factors	Project documents Japanese experts MINADER UNVDA	The logic of the project purpose (increase of nice production and improvement of nice quality) and the four outputs (1) increased production of high-quality seed, (2) increased number of famers growing and consuming upland rice, (3) improved famer's lowland rice cultivation techniques, and (4) improved harvesting and post-harvesting techniques for lowland rice for sale) are appropriate.
	What are contributing & constraint factors for achieving the Project Purpose other than outputs?		Policy support Factors which facilitate activities of extension workers and Core farmers	Project documents Japanese experts MINADER, UNVDA Extension workers, Core farmers	Participation in the training in other countries such as Gabon and Chad made it possible to exchange opinions with local officials, which strengthened participants' skills and knowledge. Showing them how the Japanese project works made themselves more confident.
		clear	Activities of extension workers, CORE farmers, and operators of rice mill	MINADER UNVDA Extension workers, Core/General farmers, Operators	Deterioration of security in the northwest region hindered bowland rice cultivation (e.g., extension workers could not teach in the fields, waterways were not be cleaned, and drains were clogged and flooded, etc.) and decreased young people's engagement in agirculture and increased labor wage. Government budged was allocated in COVID-19 and the budget for PRODERIP decreased. Impact of COVID-19 Travel restrictions prevented farmers in eastern regions from purchasing inputs such as furtilizer and seeds, which affected sowing. Small-scale farmers had finited means of SNS and could not communicate with extension agents. Communication manning farmer groups stopped temporarily and group activities did not function well.  In some cases, budsand rice farmers do not sell their paddy to UNVDA, whose purchases are delayed by the contonic crisis, but instead sell it to a local buyer at a lower price.  UNVDA instructed farmers to form a water committee within their group to handle water management and disputes.
	Is there a prospect to fulfill the important assumptions to achieve the Project Purpose by attaining the Outputs?	Natural disasters such as drought and flood do not happen	,	Project documents Project stakeholders	Every year in October, there is a lot of rainfall and flooding. Sandhags are used to change the flow of upstream to the field to prevent water concentration in the field (October 2018 monthly report). Land fertility has not recovered and brown spot has occurred and spreaded (December 2018)
Usage of past lessons from similar projects	How does the Project use lessons learned from past similar project/survey?	The Project utilizes knowledges and experiences from past projects and surveys	Lessons from past similar project/survey(PRODERIP)	Project documents Japanese experts JICA Headquarters JICACameroon Office MINADER UNVDA Core farmers	In the previous phase, There were many farmers who were devastated by bird damage and who were not able harvest suffering from drought damage because they were delayed in sowing or anismatch between the rainy season and the planting period and a dry season came before ripening. They gave up and did not plant a second crop of uplant dire, in this phase, considering the experience of the previous phase, the following measures were taken to lead them to the harvest: 1) Determination of the planting season based on the relationship between the length of the rainy season and the planting period, 2) Identification of the triming of this damage and adjustment of the planting period, and 3) Permotion of grouping to increase efficiency and reduce the burdent to drive away birds, etc. (April 2017 monthly report).  In this phase, the amount of seed is distributed in groups according to the area planted, whereas in the previous phase, seed was distributed to all members of the group (reported in July 2017).

				Efficiency	
	Evaluation Questions	Judgment	Information needed	Information	Survey Results
Main Questions	Sub-Questions		Contents of Outputs	source	<u>-</u>
Achievement level of the Outputs Causality	Has the Project been achieving the 4 Outputs?  Were the activities sufficient to achieve 4	Four Outputs are seaching each target figure  There is no surplus and	Contents of Outputs Logic between Project Purpose and Outputs Objectives of each indicators and target figures Contents and progress of each activity	Project document Japanes e experts MINADER UNVDA Project document	See "Ber formance". Output: 1. Parkidy unconfirmed. Output: 1. Not a chieved. Output: 3. Achieved. Output: 4. Achieved. Dotto 11. Achieved. Dotto 10. Achieved. Output: 3. Achieved. Output: 3. Achieved.
0.000	Outputs?	lack of activities There is no delay in progress of the Project	Ideas to improve efficiency of the Project	Japanes e experts MINADER UNVDA	
	Have the Japanese Experts been dispatched appropriately for achieving outputs in terms of its number, expertise, and timing?	The rumber, specialization and dispatch schedule of Japanes e experts were appropriate and utilized to achieve Outputs	Comments from stakeholden on utilization of Japanese experts' innowledge	Project documents Japanes e experts MINADER UNVDA JIC A Headquarten JIC A Cameroon Office	Until 2000), Japanese experts had been dispatched appropriately, but due to COVID-19, they are not able to visit Cameroon in 2020.
	Are C.P training appropriate in terms of the murber of participants, target, field's actor, content, period, and timing?	The number and selection of participants of training were appropriate Sectors, contents, ducation and firming of the training were appropriate	Implementation status of training Learning from training and utilization of it	Project documents Japanes e experts Participants of trainings	The first training in Japan was conducted with GM of UNVDA and four MINADER, officials (October 16-18, 2017). Themse were inceptoduction improvement including agricultural machinery and impairs not but there in Japan, distribution and mandating of agricultural products, organizational structures and impaction inchanges for ligh quality used production and seed confinitation, methods for large-scale production of good quality rice, and reflection on these policies.  The second training in Japan for 4 CPs (DOPA mechanics, coordinator, etc.) was held in 2019. They learned about strategic rice machanization, etc.
	Have the C/P and staff for operation and management been allocated appropriately? Have the worldood for other words, capacity and timing of appointment been appropriate?	MINADER and UNVDA is appropriate	TOR of MINADER and UNVDA officen The number of areas and farmers monitored by each extension workers	Project documents MINADER UNVDA Japanes e experts	With the recognization of PNVAL, there was competition for extension expects with fair project and the French project (AED) (May 2015), but it was decided to use AMNADER's interrult personnel (CPA, CERA, CERA, and excentained worders) (may 2016).  2015, but it was decided to use AMNADER's interrult personnel (CPA, CERA, CERA) are extension worders (may 2016). This makes it distributes the contraction of the thought be collected every well or two when the extension worders go to the fields. This also provents them from taking when we was them? The project trains extension worders and core farmed, but the core farmed now on throw two grows to lorder did not and what the problems are, and do not check the status of cultivation and problems in the same way as the extension worders do.
	Is the Project's budge appropriately allocated by C/P?	MINADER and UNVDA	Budget allocation into the Project and implementation of the budget by MINADER and UNV DA	Project documents MINADER UNVDA Japanes e experts	Though registered seeds and certified seeds are periodiced with the budge of Clameroon, delays in preparation due to delays in the siluccion of the budge and decreased production due to they spell were concented. The impact of the delay in the budge allocation on seed product sin was mentioned in the ICC agenda, but this has not been corrected and in not expected to be solved (Jamasry and February 2000).  The CPS expenditures on training have been increasing. In 2017, the training budge is fully finded by the project budges. In 2019, only denies and marks are finded by the project budges. In 2019 only denies and marks are finded by the project budges in fully finded by the project budges and transportation are finded by the project budges. In 2019 only denies and fundable to the project budges in 2019 only denies and fundable to the project budges. In 2019 only denies are funded by the project budges and transportation are funded by the project budges in the project budges. In 2019 only denies are funded by the project budges and transportation are funded by the project budges in the project budges. In 2019 only denies are funded by the project budges in 2019 only denies are funded by the project budges and transportation are funded by the project budges are funded by the project budges are funded by the project budges and transportation are funded by the project budges are funded by the project budges are funded by the project budges. In 2019 only denies are funded by the project budges are funded by the project budges. In 2019 only denies are funded by the project budges are funded by the project budges are funded by the project budges. In 2019 only denies are funded by the project budges are funded by the project budges are funded by the project budges. In 2019 only denies are funded by the project budges are fund
	used effectively to produce each output?	Equipment and machineries provided by the Project are well utilized	Utilization of facilities and equipment provided by the Project Comments from a taleshold es	Project documents MiNADER, UNVDA Japanes e experts	Jacones and Chinese illen installed in seed production field are maintained properly.  Multiple burghains (e.g., copy paper, motorized syraper of MINADER, stems, one sketchris mower, free manual mowers, etc., in the project washouse (RLAD) Obcabe 20(3), and machine for the training building in the RLAD field, including one water pump and motorized mower (April 2017). Equipment worth about 12 million F CFA in total, including electrical total and transformers in the project washouse (RLAD).  Heirig security grands to prevent their (March 2018)  Resent difficult band over size is a treat ille because a number of equipment multinactions. (February 2019)
	Has the important Assumptions been findfilled to achieve the outputs by implementing project activities?	1. MNADER officers and UNVDA extension workers are continuously involved in upland rice cultivation and ring sted rice cultivation as fring sted rice cultivation as C. Maaning of transportation is secured for extension workers activities.  3. there is no rapid increase in bird damage and past, which do damage to upland rice and irrigated rice.	Observation of Important Assumptions Influence of Important Assumptions Response of the Project Estatence of a new Important Assumptions	Project documents MINADER, UNVDA Japanese experts	1. With the recognitization of PRVRA, competition for extension workers are as a between this project and the French project (AFD) (May 2018), and it was decided to use a MINDAR internal person cert (POPA, CERA, CERA) as new extension workers flows 2018. The rundre of extension workers have described from 2018. The rundre of extension to allow 18 to 18 to 18 to 2018 as a consist of existing a staff. They are byte in solve this hortage of extension to allowing the prosuments to also expensioned extension workers to remain; 2) as signing the hand of CERAC (Center for Education and Community Action) and community expensions on the old of extension as large flag of the proper staff of the contraction of the destination on contraction of the destination of the contraction of the destination on contraction of the destination on contraction of the contraction of the destination on contraction of the contraction of the destination on contraction of the contraction of the destination on contraction of the c
ering factors to achievements of	Are there contributing factors related to inputs and activities for the achievement of the Outputs?	Project statosholders clarify contributing factors	Comments from stakeholden	Japanes e experts	Following facts on the mean matrix as a contributing factors to inchose seed production; close communication, extension workers visiting the fields, and proper selection of core famous (December 2018).
the Outputs	Are there contributing factors other than project inputs for the achievement of the Outputs?	Input which is not written in PDM and important assumptions contribute to achieve Outputs	Comments from stakeholders	Project documents MINADER UNVDA Japanes e experts Core farmers	* UNVDA was \$49,600 FCFA for trainings in 2000 which was a part of breading from the sales of project rice (120,000 FCFA for smaller and \$29,600 FCFA for transport allowances to farmers.
	Is there any inidening factor for the archievement of Outgoin?	Bird damage, pest, and flood do not happen in a scale that limits achievement of Outputs There is constraint factors not written in PDM as important assumptions	Comments from s takeholden Trends of bird damage, pest, and flood	Project documents MINADER UNVDA Japanes e experts Core farmers	Radigues from Central Africa (2 mrams in Battom) included in the dissemination target carnot to or due to lack of a valishis farmiand after receiving seeds (Oncomber 2017). In response to heavy nainful into the devery year, the project use a sandbags to adjust the water floor of upstream to the fields to avoid concentrating waser in the fields.  Due to the political uncertainty in the UNVDA region (Onterment) when to hard nice has been grown since 2018, the entry of Lapanese experts was nestricted, and subsequently the entry of CPA was restricted, which greatly induced thin activities.  The CPA land a land time in the first morth when Japanese expens setumed to Japan due to COVID-19 in March 2000. In addition, due to the lack of budget from NRVADER, they were not able to receive field and transportation afformation. It was also the time of seed production, which that aimpact, Initially there was a stock of each, but now the activity is targent. The project has not been able to visit the size and conduct continuous follow-up surveys. There are problems at various levels, such as not being able to produce rice enters the transportation are upon a project has not been able to receive and the trains of a non-part of the produce rice enters the training of the produce rice enters the produce of the enterty as a whole.
Cost	Have the Outputs been appropriately achieved in comparison of the project cost?	The Project is achieving similar Output spending less money compared with other similar projects	Cost of similar projects Comments from stalesholders	Project documents MINADER UNVDA Japanes e experts Core farmers	No data
	Are the human resources, outcomes, and equipment of former other on-going projects utilized?	Equipment and machineri	Examples of utilization of former other on-going projects' resources	Project documents Japanes e experts	The reason why there are some suppressed usuals if but they were intended to be used in Ndop (INVDA in the Northwestern region. Che of CINDDA and heart and that it is fine own goods, that the equipment in Yacoustic are sufficient at the time of the mid-term review, and that it would be uncomfortable for UNVDA to use it in Yacoustic It is stored in a container in Yacoustic (project). They are to consider the utilization of equipment in Yacoustic or sensoricly in Northwest region. The six emilling plant is planned to be institled and used. It acoustic is income for the contraction of the contraction of the utilization of equipment in Yacoustic in the contraction of the utilization of equipment in Yacoustic in the Contraction of the University of the Contraction of the University of the Univers
	"Was there any duplication with projects implemented by other donone?" "Was there any collaboration with other projects? If there was, was the collaboration cost effective? "Was there any collaboration with other organizations related to Cameroon?	There is no duplication of a tivities and areas of the Project with other development partners' projects There is an example of collaboration of the Project with other development partners	Assistance policy of other development partners The latest situation of their programs Demacation and collaboration of equipment and training	Project documents Japanes experts Development Partners	The project was alost to conduct a training by FA.O and MINADEE for famining project (May) viane 2017. The project conducts a training of externion over does in the FAEN Rote for MINDPS Autonomissasion due Communates et Consolidation de Paix dans la region de l'Enterent Nord du Cameroun. The project travallo to Chad with CPO e has information on the feming in Chad, collect information on post-barvest processing and quality of milled rice in the Northwest term region. It also conducted seminans. (June 4-7, 2018 and December 2019)

				Impact (Estimation)	
	Evaluation Questions	Judgment	Information needed	Information source	Survey Results
Main Questions	Sub Questions	,		1 mor ma uon source	-
Achievement forecast for the super goal	Is there a high probability that the Rice sufficiency be increased in Cameroon?	increase by XXV6 They hold on the Super Goal Access to indicator is clarified		Japanese experts MINADER UNVDA CARD Final Review Assessment Africa Region Final Report	Self-emiliency is signame: 13 m <sup>2</sup> /c2009, 22 11/c2009, 12 11/c2010, 12 m <sup>2</sup> /c2011), 18 0 m <sup>2</sup> /c2012, 18 27/c2013, 18 7/c2013,
		1. There is no increase of illegal rice export     2. There is a turiff on import noe     3. Camerooning government keeps policy and strategy to promote     3. There is no increased in the sector		Project documents Japanese experts MINADER UNVDA INS	I. High demand of rice in Classen on and in mighbourg countries, especially in Nigeria and Chad, classes sligal in export of rice. Smaller reporters sustally such passas reads by moneytic be a twoir dark and nonetimes transport and amounts of rice is stock a cross bordern (Impact des Importations des products alimentaires de grande consommation sur l'économie nationale moi 2017, National Statistics Institute (1803), 299 bags of rice were illegally exported in 2018 (Bussess in Cameron, Nevember 41, 2018)  2. The removal of import turiffs on highly consumed imported fixed s (rice, fixoum fish, and wheat) availade in a cumulative shortfall of about 443 bidino CFAF between 2008 and 2015. Since 2016, taxes on these items have been restored (INS).  Rice imports, which previously benefit from the supersission of triffs and taxes, vall one be subject to the Common External Traiff (CET) at an sof 5 percent Clamary 23, 2020).  (Major l'assummantes, pre-convergable—of-cameroon corporate other-taxes, PWC Worldwide Tax Summantes). According to INS, in 2017, Cameroon imported 178, 443 tons of rice with a value of 18.7 bidino CFAF. Although ne import suff has been applied since Ansurary 2016, the import has increased by 18.8% is volume and 27.9% in value compared to 2016 (investor as Camerous, Sept, 2018).  As of 2020, the revenues from terifix is used to subsidive constantes.
Achievement forecast for the overall goal		Sales of rice in inigated area of UNVDA increase Annual consumption of target farmers' own upland rice reaches more than 42kg		Project documents Japanese experts MNADER UNVDA Related documents	MNAMER is involved in only four regions in PRODERIP. The project has not been able to produce a sufficient amount of sends for these uses. But due to the quality of the project sends, other approximation of which the production is a challenge, but if a sloo a sign that we are lawing a positive impact. With the lelp of Japanese experts, the MNADER is able to produce good quality sends. Due to lack of budget, it is unable to supply even when we receive petitions from other regions.
	Are important assumptions appropriate to achieve overall goal by fulfilling the project purpose? Is there a high probability that important assumptions are fulfilled?	Fo lowing Important Assumptions are likely to be satisfied 1. Rice policy does not change 2. International rice price does not drop sharply	Comments of MINADER on rice policy     Trend of international rice price	Project documents MINADER UNVDA	1. The Cameronis policy toward the achievement of rice self-sufficiency piece a strong support for the project. 2. Ree price has been decreasing size: 201, manify due to the respect of solicis in Talkand. However, it has been on an upward trend since 2017. The Team identified that there is no significant drop in the international price of rice.
Ripple effects	Is draw any influence of the Project other than overall poal?  - Effects on policy making, legal and judicial institution and regulations  - Effects on social and cultural aspects such as gender, insuma rights and poverty  - Economic influence on environment, technology, society, project stakeholders and beneficiaries	Influences of related laws, regulations, and cabinet orders is identified. Participation of women in rice production increases Technology of rice cultivation in non-target areas and neighborhood countries improves	Influences on policies, laws, mistibulons, and standards influences on environment such as pest and soil pollubion. Changes of involvement of women and the poor Influences in non-target areas in Cameroora and neighborfnod countries in terms of technology.	UNVDA	The project is promoting rise cultivation inclinality of montpul local training in DRC, Republic of the Congo, Gabon and Chad, and regional training in Central African Republic on its one cultivation.  NGOs, instinces studying girculture, and finamen of rubber plantations (EVEA) come to receive training in upland rice cultivation. The project provides meed to pricous where prisonens grow rice.  PROCEREP continues to infiltance the revision of the NGOs, and CP is part of the team that will produce the NGOS version 2. Planse I aimed to increase rice production though maint-deplined rice cultivation, brujeds were not as light as expected. In Planse 2, they started both rights and maint-filed boundard rice cultivation, brujeds were not as light as expected in Planse 2, they started both rights and maint-filed boundard rice cultivation. The rice of the new project varies to fill the gap between production and demand expecting rice exports. This is reflected in the NGOM and and rice cultivation of the new project varies to fill the gap between production and demand expecting rice exports. This is reflected in the NGOM and and rice cultivation is central, southern, and western egions where it was not previously called usen.
	If there is any negative impact, has the Project dealt with it?	There is no negative impact If there is a negative impact, it is properly dealt	Economic inequality among provinces generated by the Project Example of resolution of negative impacts	Japanese experts Project stakeholders	No negative effect was identified.

			Sustainability (Pr	rospects)	
	Evaluation Questions	Judgment	Information needed	Information source	Survey results
Main Questions	Sub-Questions	_			·
Policies and Institutions	Will policy support continue after JICA's cooperation is finished? Are related policies and institutions formulated?/ Will they be formulated?	Political supports are likely to continue after the Project There are regulations related with rice cultivation that support the Project The regulations will be sustained	Comments from MINADER and UNVDA Regulations under cabinet order Seed inspection standard	MINADER UNVDA Project documents	The strategy document published in 2019 and updated every five years or so, specifies rice promotion.  The PAPMAV-Q, which defines strategic seeds such as corn seeds, includes rice as a strategic seed from 2018.
	How will the technology be transferred to general farmers?	Core farmers keep providing technology assistance to General farmers Mechanism to transfer technology will be improved Irrigated rice cultivation technology manual will be utilized	extension workers, and Core farmers	Project documents Japanese experts MIDER UNVDA extension workers Manual of Tensui Cultivation T echnology	The core farmers will continue to provide instruction to general farmers after the project. The cultivation manuals for upland rice and lowland rice are being prepared in the project. They will be completed by the end of the project.
Organization and Finance	In order to continue project activities to achieve positive impacts after the completion of the Project, is capacity of the implementing agency sufficient? Can implementing agency allocate sufficient human resource, maintain decision-making process, and coordinate with other organizations?	C/P allocates human resource to improve a impact of the Project after the Project. C/P has a decision-making process to improve a impact of the Project after the Project. C/P has a capacity to collaborate with other oroganization after the Project.	Comments from MINADER, UNVDA, and extension workers	Project documents Japanese experts	The implementing agencies for both upland and lowland rice will continue the activities of the project. The budget for extension workers training is small, and its sustainability is unclear. It is less likely to increase the number of training.
	Is the ownership of core farmers sufficiently confirmed for future?	Ownership of the Core farmers are secured for future development	Comments from extension workers Comments from seed farmers about distribution of CS	Project documents Japanese experts T/G	Core farmers have the advantage to receive training first. Since they are willing to teach neighboring farmers, even if it is free of charge, it is expected that they will continue to teach.
	Are there measures to secure future budget to sustain the impact of the Project?	Previous budget allocation will be clearly proposed Prospect of the future budget allocation is clear	Budget flow of MINADER and UNVDA related with seed production and distribution Long-term prospect about budget	Project documents MINDER UNVDA	The CP's expenditures on training have been gradually increasing. In 2017, the training budget is fully funded by the project budget. In 2019, only drinks and snacks are funded by the project budget, and snacks and transportation are funded by the profits from the sale of rice at UNVDA.  Though registered seeds and certified seeds are produced with the budget of Cameroon, ddays in preparation due to delays in the allocation of the budget and decreased production due to dry spell were concerned. The impact of the dday in the budget allocation on seed production was mentioned in the ICC agenda, but this has not been corrected and is not expected to be solved (January and February 2020).
Technology	Will the know-how transferred from the Project be shared after the completion of the Project?	is observed The rice cultivation technology guideline will be utilized	Progress of elaboration of manual and action plan and universality of them The cultivation technology guideline is used	Project documents Japanese experts MINADER,UNVDA Extension workers Manual of Tensui Cultivation Technology	To strengthen relationship between extension workers and core farmers, an action plan was developed for four goals (increase in inswers extension strength in the control of the control o
	Will the equipment of the Project be maintained appropriately after the completion of the Project?	Equipment provided by the Project is highly likely to be utilized after the Project	Frequency of use of equipment Structure and members of maintenance team after the Project	Person in charge of MINADER and UNVDA	As the project plots are located at IRAD, the equipment is located at IRAD, but not all the equipment will be undertook by IRAD after the project is completed, and equipment related to dissemination and agriculture will be placed at MINADER and equipment related to tressearch will be placed at IRAD.  The distribution of war decouses, buildings, rice milling machines, etc. will be considered.
Society, culture and environment	Is there any possibility that effects of the Project are not sustainable due to the lack of attention to women, the poor, the socially vulnerable and traditional organizations?	Impacts on women, the poor, vulnerable people, and traditional organization are considered	among provinces The number of women participated in trainings	Project documents Japanese experts Project stakeholders	No significant impact was observed.
	Is there any possibility that effects of the Project are not sustainable due to the lack of attention to the environment?	Impacts on environment are considered	Long-term prospect of influences of pesticide on environment such as soil		Expanding the area of upland rice leads to deforestation. Machineries cannot enter renewable forests. If we put in machines, it will take a long time to recover the forest. This is not only bad for the environment, but also technically difficult.

		Necess	ity of adjustment	
Evalua	tion Questions	Information needed	Information	Survey results
Main questions	Sub-questions	ппотпяской пеедед	source	Survey resums
Discussion points based on the survey results	Does the project design need to be revised?	Future strategy of C/P Inconsistency of logic Feasibility	Project documents Japanese experts Project stakeholders	The PDM needs to be revised.
	Do C/P, T/G, and target areas need to be revised?	Future strategy and capability of C/P The number of target farmers of T/G Change in size of target areas	Project documents Japanese experts	The T/G needs to be revised. The definition of the T/G for lowland rice farmers needs to be revised from the farmers who participated in training to those who bring their paddy to UNVDA. The number of the T/G for upland rice farmers needs to be changed from 5,000 to 3.000.
	Does the content of overall goal need to be revised?	Logic between the Overall Goal and the Project Purpose Appropriateness judging from the current situation	Project documents Japanese experts Project stakeholders	The content of the Overall Goal does not need to be revised.
	Do the indicators of the super goal need to be revised?	Logic between Overall Goal and Project Purpose Feasibility of the Overall Goal Availability of ??	Project documents Japanese experts Project stakeholders	The target figure of the Super Goal needs to be revised to a figure based on SND30 and NRDS2.
	Do the indicators of the overall goal need to be revised?	Logic between Overall Goal and Project Purpose Feasibility of the Overall Goal Availability of ??	Project documents Japanese experts Project stakeholders	The Overall Goal for lowland rice needs to be revised from "The amount of marketed irrigated rice of in UNVDA irrigation sectors." to "The sales of marketed irrigated rice in UNVDA irrigation sectors."
	Are important assumptions required to keep placing next to the overall goal?	Necessity to set new important assumptions Contents of new important assumptions	Project documents Japanese experts Project stakeholders	Important assumptions to Overall Goal need to be placed as they are.
	Does the project purpose need to be revised?	No change in the Project Purpose	Project documents Japanese experts Project stakeholders	The Project Purpose does not need to be changed.
	Do the indicators of project purpose need to be revised?	Relevance of indicators Relevance of target figures	Project documents Japanese experts Project stakeholders	The indicator 1 needs to be changed from "Rate of increase of Amount of rice produced in the project areas" to "Amount of rice produced in the project areas"
	Do the outputs need to be revised?	Result of discussion on appropriateness of logic among expression, structure, and activities	Project documents Japanese experts Project stakeholders	The Outputs do not need to be changed.
	Do the indicators of the outputs need to be revised?	Result of discussion on necessity to change target figures taking into account achievement of each Outputs	Project documents Japanese experts Project stakeholders	The indicator 2-1 needs to be revised from "Rate of farmers cultivate upland rice two 2 times in 5 years in the monitoring areas." to "Rate of farmers cultivate upland rice more than twice in 5 years in the monitoring areas."  The indicator 3-1 needs to be revised from "Average paddy yield per hector of trained farmers." to "Average paddy yield per hectore of trained farmers."
	Following the changes in the outputs and indicators, do any of activities need to be added or deleted?	Reflection of influences on activities taking into account progress of the Project Result of discussion	Project documents Japanese experts Project stakeholders	To strengthen the capacit of the C/P, "Conduct regional cooperation with neighboring countries and develop training capacity through regional trainings in Cameroon and technical exchange." needs to be added as activity 2-5.
	Following the changes in activities, does any of inputs need to be revised?	Comments from project stakeholders Comments from Japanese side	Project documents Japanese experts JICA Headquarters JICA Cameroon Office	No input needs to be revised.
New important assumptions influential to the Project	Is there any new important assumptions to affect the project?	Result of discussion	Report of Detailed Plan Japanese experts Project stakeholders	Following two important assumptions need to be added;  A pollical stability is secured  COVID-19 does not outbreaks
Further recommendation	Suggestions to MINADER, UNVDA, JCC, Project and etc.	Result of discussion	Project documents Japanese experts Project stakeholders	Recommendations for all concerned (I)Extension of project period (2)Revision of PDM Recommendations for MINADER and the Project (3)Extraction of good practices (4)Sead production by farmers (5)Enhancement of group cultivation (6)Tasting activities for new farmers (7)Regular monitoring on rice miller Recommendations for UNVDA and the Project (8)Improvement of financial sustainability (9)Improvement of quality check Recommendations for MINADER (10)Securing C.Pf funds (11)Appointment of Deputy Project Manager (12)Timely submission of monthly report (13)Increase in seed production

