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Ministry of Agriculture  
and Forests



Japan International  
Cooperation Agency

## 2nd Phase of Rice Project Launched

**Period** : January 2018 to December 2022

**Project Site** : Gezira, Sennar, Gedaref, White Nile, Rive Nile, Northern and Khartoum state

**Project Purpose** : Improve institutional and technical capacity of MoAF, Agricultural Research Corporation (ARC), and Center of Excellence (CoE) located in Gezira State

**Output 1** : Establish the coordination system of stakeholders in rice promotion at Federal level

**Output 2** : Produce Foundation Seed (FS) and Registered Seed (RS) in ARC HQ

**Output 3** : Establish Certified Seed (CS) supply system for ordinary farmers in CoE

**Output 4** : Identify the issues of rice marketing based on trial sales of milled local rice in Gezira State

**Output 5** : Start the production of CS in 5 States (Sennar, Gedaref, White Nile, River Nile and Northern)

Ministry of Agriculture and Forests (MoAF) started a new 5-year Project, called “Capacity Building Project for Promotion of Rice Production”, in cooperation with Japan International Cooperation Agency (JICA) from January 2018. This Project is the 2nd phase of the former Project named “Capacity Building Project for the Implementation of the Executive Programme for the Agricultural Revival” which had been carried out from 2010 to 2016.

In the former Project, through continuous and strenuous effort by both JICA experts and Sudanese counterparts, outstanding improvement had been attained such as : proper cultivation techniques of upland rice (NERICA 4) were established; demonstration fields were implemented and seeds were produced in local farms; the capacity of extensionists was strengthened; and the former Project empirically proved that the rice production was also possible in Sudan.

Based on the results of the former Project, the new Project focuses on the Value Chain of Rice, especially on the seed production. The outline of the Project is shown in the table.

### Discussions between Sudanese counterparts and Japanese experts

Since the beginning of the new Project, both Sudanese counterparts and Japanese experts discussed together many times regarding to the Project framework and its implementation, the activity, etc. In addition, Undersecretary (Dr. Azhari) and Project Chief Advisor (Mr. Osamu Nakagaki) discussed the rice development in Sudan.



First discussion in MoAF on January



Courtesy call to Federal Minister on January



Courtesy call to Undersecretary on January



Discussion on rice development in Sudan on October with Undersecretary and NRP Coordinator



Discussion on project framework structure and activity with NRP coordinator and ARC coordinator



Courtesy call to Minister of Gezira SMoA on January



Discussion in Gezira SMoA (Rice Unit) on January



Discussion in ARC HQ on January

# Seed Production in ARC

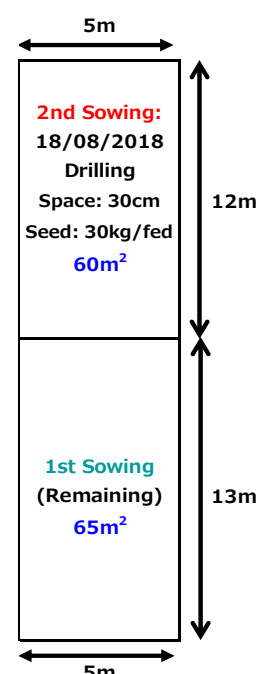


The production of Foundation Seed (FS) and Registered Seed (RS) is the key for the Project. After the discussion between ARC and Japanese experts, 5 varieties and lines were selected for seed multiplication. These 5 are Kosti 1, Umgar (released varieties), IR11N202, INPAGO 9 (promising lines) and NERICA 4 (good variety by actual cultivation). IR11N202, INPAGO 9 and NERICA 4 are not approved officially but we decided to multiply them while they are being prepared for submission for their official approval.



The first sowing was implemented on 4th July 2018 in the field of ARC HQ (Gezira State). However because there were a lot of missing hills, the second sowing was carried out on 18th August 2018 as is shown in the figure right hand side.

First field inspection by Seed Administration (MoAF) was conducted on 1st October 2018. Second field inspection is expected in November before harvest.



# Upland Rice Cultivation in CoE Gezira

In order to maintain the cultivation technique of upland rice and to prepare Certified Seed (CS) production from 2020, upland rice cultivation is being carried out in CoE Gezira at 6 sites (total 28 feddans). The table below shows the detail.

The crop cut survey in the Mr. Aboud's field (Alkomur area, South Gezira) was conducted on 24th October. It showed 4.45 ton/ha (=1.87 ton/feddan). It should be noted that for Mr. Aboud it was the first time to grow upland rice.



Farmers' name	Daffalla	Aboud	Abuzer	Abdellateef	Adeeb	Jalal
Size (fed.)	2	4	4	4	4	4 and 6 (=10)
Variety	NERICA 4	Umgar	Umgar	Umgar	Umgar	NERICA 4 & Umgar

# Rice Milling and Marketing

Rice milling is one of key activity for trial-sales of milled local rice in Gezira State. There are 12 Rice Milling Machines in Gezira State (7 locations). By the end of October, Gezira SMOA have set at 4 locations as shown in the map (7 machines) with 3-phase power supply (Hasahisa, Fadasi, Hosh & Barona).



Location of 7 Rice Milling Units (RMUs) in Gezira



Pamphlet for promoting rice flour

Marketing is another key issue for rice production. After milling of paddy rice, only about 60% of it becomes white rice (unbroken rice). Rice flour is also produced during milling, so the Project tried to use the rice flour for making bread. After several trials in Rice Promotion Unit in Gezira SMOA, they found the good proportion with 40% of rice flour and 60% of wheat flour. The cost of rice flour is cheaper than wheat flour. 800 rice breads were made for trial sale and all of them were sold.



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CAPACITY BUILDING PROJECT FOR PROMOTION OF RICE PRODUCTION