



## 2nd Rice Sector Development Forum "Pave The Way for 2nd-Stage"

Together with Peoples, Private and Public Sectors  
Sponsored by FMoAI, Gezira State MoA and JICA Project

**The Second Rice Sector Development Forum** was held at Al Salam Rotana Hotel in Khartoum, on 8th January 2014. **Total 238 participants** (excluding media [4 TVs, 5 Radio and 14 Newspapers]) were counted such as politicians, ambassadors, donors, government officials (Federal and States Ministries of Agriculture and other Ministries), representatives from agricultural banks, private sectors and farmers. The participants discussed urgent bottleneck issues on rice cultivation and deepened the confidence to enhance rice sector development in Sudan.

**Prof. Elzubair Bashir Taha (Governor of Gezira State)** remarked that Sudan planned to be exporter of rice. He added that he considered the rice cultivation would bring better income than any other crops for farmers.



Opening remark by Prof. Elzubair Bashir Taha (Governor of Gezira State)



Opening remark by Dr. Gafer Ahmad Abdallah (State Minister, Federal Ministry of Agriculture and Irrigation)



Opening remark by Dr. Hebib Makhtoum (Deputy Chairman of Agricultural Committee, National Parliament)



Views of the Forum

## 8 Presenters to tackle Bottleneck Issues on Rice Production

Category of Bottleneck Issues	Concrete Bottleneck Issues		Working Group Members
	Issue	Items	
1 Research	Seed	Development, Maintenance, Multiplication of Variety	<b>Dr. Rodwan Mohamad Ahmed</b> (Minister, Sennar State MoA) < Coordinator of the Working Group > <b>Prof. Ahmed A. Elsiddig</b> (National Rice Research Coordinator, ARC, FMoAI) <1. Research > <b>Dr. Malik Nasr Malik</b> (Arab Authority for Agricultural Investment and Development [AAAID]) <1. Soil Analysis and Seed Multiplication > <b>Mr. Mohieldin Ali Mohammed</b> (National Rice Coordinator, National Rice Project, FMoAI) <2. Training, 4(1),4(3), 4 (4) Cultivation and 6. Post Harvest > <b>Mr. Ali Gadoom El Ghali</b> (Agricultural Technologies Transfer Manager, Central Trading Company [CTC]) <4(2). Machinery and 6. Post harvest > <b>Mr. Ahmed Gaafar Ahmed</b> (Medani Branch Manager, CTC) <5. Agricultural Input > <b>Dr. Sara Ahmed Ali</b> (Head of Agricomic research and informatics Department, Gezira State MoA) <7. Marketing > <b>Dr. Mohammed Badawi Hussien</b> (Department of Agricultural Extension and Rural Development, Sudan University of Science and Technology) <3. Extension, 8. Agricultural Organization >
	Soil Analysis	Physical Structure, Chemical (elements), PH, Salinity	
	Sowing	Time, Density and Space	
	Irrigation	Irrigation system and interval	
	Weed Control	Herbicide	
2 Training	Training and Extension	Training on rice cultivation, post harvest including machineries and capacity building Linkage among research, Training and Extension	
	Training and Extension	Extension of rice cultivation and Post Harvest including machineries	
4 Cultivation (1) Seed (2) Machinery	Pure line of Seed	Seeds	
	Land Preparation (Leveling)	Machineries	
	Sowing (Seed Drilling)	Drilling Machineries, Operation	
	Weed Control	Weeding by Machineries and Hands & Tools	
	Harvest (Combine Harvester = big loss)	Machineries, Operation	
(3) Irrigation Management	Irrigation	Water Management at Panicle Initiation Stage, Irrigation System & Knowhow	
	Weed Control	Weed Control and fertilizer	
5 Agricultural Input	Weed Control, fertilizer and machineries	Herbicide, fertilizer etc.	
6 Post Harvest	Post Harvest	Cleaning, Milling, Packing, and Storage	
7 Marketing	Marketing	Ways of Consumption, Quality, Domestic, Overseas	
8 Agricultural Organization	Agricultural Cooperative	Agricultural Inputs, Share Cultivation Knowledge, Marketing	

**The main purpose of the Forum** is to share 'actions and countermeasures to tackle 8 bottleneck issues in rice sector development in Sudan'. **Eight bottleneck issues** are (1) Research, (2) Training, (3) Extension, (4) Cultivation (seed, machineries, irrigation management, weed control), (5) Agricultural Inputs including fertilizer etc., (6) Post Harvest including machineries and milling, (7) Marketing and (8) Agricultural Organization. These issues were determined by **the Working Group (overall coordinator: Mr. Abdalla Mohamed Osman Mohieldin [Minister, Gezira State MoA])** after the 1st Rice Sector Development Forum which was held on 17th February 2013.



Mr. Osamu Nakagaki

Dr. Malik Nasr Malik

Eng. Ali Gadoom El Ghali

Mr. Ahmed Gaafar Ahmed



Prof. Ahmed A. Elsiddig

Dr. Mohammed Badawi Hussien

Dr. Sara Ahmed Ali

Mr. Mohieldin Ali Mohammed

### Title of 8 Presentations & Presenters

<b>"Purpose of the Forum and working group"</b> Mr. Osamu Nakagaki (JICA-Chief Advisor for 'Capacity Building Project for the Implementation of The Executive Programme for the Agricultural Revival')
<b>"Plan of seed multiplication with private sector as a countermeasure against seed multiplication's issues"</b> Dr. Malik Nasr Malik (Soil Expert-Consultant, Projects Department, Arab Authority for Agricultural Investment and Development [AAAID])
<b>"Problem Analysis and Countermeasures against machinery's bottleneck issues"</b> Eng. Ali Gadoom El Ghali (Agricultural Technologies Transfer Manager, CTC Engineering Co.)
<b>"Agrochemicals for high yield and better quality"</b> Mr. Ahmed Gaafar Ahmed (Medani Branch Manager, CTC Agrochemicals Co.)
<b>"Rice Research plan to tackle bottleneck issues by ARC"</b> Prof. Ahmed A. Elsiddig (National Rice Research Coordinator, Agriculture Research Corporation, FMoAI)
<b>"Perspective of extension and agricultural organization for future rice production"</b> Dr. Mohammed Badawi Hussien (Department of Agricultural Extension and Rural Development, Sudan University of Science and Technology)
<b>"World rice trade, production and consumption and Sudan's trend"</b> Dr. Sara Ahmed Ali (Head of Agricomic research and informatics Department, Gezira State MoA)
<b>"General comment on review of current rice production in Sudan and governmental intervention for rice development"</b> Mr. Mohieldin Ali Mohammed (National Rice Coordinator, National Rice Project, FMoAI)

## Hot Debate and Discussion on the Forum

Total 30 participants delivered their comments, opinions and questions after 8 presentations. Presenters answered and discussed how to solve the bottleneck issues and which step Sudan should take. The main ideas and recommendations which were proposed in the Forum are as follows;

### <Policy, Organization, Budget/Finance and Total Coordination>

- 1) To have policies to support and implement rice sector development in federal and state levels respectively for the producers as in the case of sorghum and wheat crops by the government
- 2) To provide finance through the banking systems
- 3) More coordination among farmers, research=ARC, extension and other stakeholders
- 4) To finance ARC for research activity and National Rice Project to sustain rice development in Sudan
- 5) To subsidize farmers through ARC, Bank, National Rice Project etc.

### <Technology (included Research & Post Harvest)>

- 1) To strengthen research activity (rice seed and varieties, irrigation for large scale rice production and comparing between upland rice and paddy rice cultivation, fertilization including animal manure, pest and disease management, weed control, machinery, post harvest technology and storing to maintain seed quality) by ARC and others
- 2) To establish clear criteria to release rice variety, data base through collaboration with state governments and formulation of a research action plan with clear time schedule

### <Training>

- 1) To provide more training to extensionists and farmers
- 2) To formulate a programme of vocational training including machinery operation

### <Extension, Agricultural Organization and Awareness Building>

- 1) To build "a board" which is specialized in rice production (This board must be authorized by law to have power and access to credit. The board provides extension service to farmers and also have responsibility of marketing of rice.)
- 2) To adopt commodity specialized approach (Extensionists should concentrate on one commodity.)
- 3) To establish "village rice council" in each village
- 4) To further strengthen extension service and utilize media for awareness building to farmers.

### <Seed>

- 1) To collaborate AAAID which cooperates with other seed companies, for the multiplication of the approved pure line seeds varieties under the supervision of ARC and JICA experts
- 2) To research new suitable varieties for different regions in Sudan

### <Machinery (included Post Harvest)>

- 1) To provide professional processing facility for seed multiplication to maintain the quality of the seed produced by the seed farmers (for example, cleaning, drying, storage and packaging)
- 2) To provide an ideal Rice Combine Harvester by JICA to minimize combine losses
- 3) To import proper machines and manufacture a prototype machine locally from land leveling and seeding to harvesting and post harvest technologies by private sectors (CTC, etc.)

### <Agricultural Input>

- 1) To provide service by private sectors (CTC, etc.) to farmers in the field of herbicides and fertilizers

### <Market>

- 1) To research and/or study on rice market and profitability of rice production
- 2) To establish a "commodity council" for the organization of production and trading of rice to overcome the deficit and to meet exportation purposes for neighboring and Arabic countries

### <Collaboration with International Agency & Next Forum>

- 1) To collaborate with Arab organizations
- 2) To equip a capacity to be a new partner with international agencies
- 3) To utilize two years extension of ongoing JICA project to solve the rest of the bottleneck issues
- 4) To continue "Rice Sector Development Forum"



The 1st Session chaired by Prof. Kamal Elsiddig (ARC, FMoAI, the left of the left photo) and the 2nd Session chaired by Dr. Abdallah Sulaiman Abdallah (Dean of Faculty of Agriculture, University of Gezira, the left of the right photo) with Dr. Hassan (Consultant of the JICA Project, on the right)



Eng. Abd Ulgabar Osman (General Secretary for Agricultural Revival Programme) stated his comment.



Presenters answered questions from the participants.



Participants were keen to delivering opinions at the forum.



**Dr. Rodwan Mohammad Ahmed (Minister, Sennar State MoA)** stated that the road map will be formulated based on the recommendations proposed by the bottleneck working group. He agreed the establishment of "A Board" in the federal level in order to develop and sustain rice sector. He suggested to increase the members of the working group.

**Mr. Osamu Nakagaki (Chief Advisor of JICA project)** stressed that it is a turning point for rice sector development to step up from "introductory (first) stage" to "extension (second) stage". He also underlined that research by ARC, collaboration between FMoAI and State MoAs as well as collaboration between public and private sectors are indispensable. He also strongly proposed that FMoAI should support finance to rice sector development.

**Dr. Gafar Ahmad Abdallah (State Minister, FMoAI)** stated that FMoAI will follow up through review and implementation of the countermeasures by conducting field observations with the working group members and other relevant stakeholders, will enhance extension of rice and rice sector development, and will start dialog in politics in order to plan and conduct a new forum with establishing of a professional association in the framework of food security.



Synthesis delivered by Dr. Rodwan (Minister, Sennar State MoA, the right) chaired by Mr. Abdalla (Minister, Gezira State MoA, the left)



Closing Remark by Mr. Nakagaki (the right) chaired by Mr. Abdalla (the left)



Closing Remark by Dr. Gafer (State Minister, FMoAI, the right) chaired by Mr. Abdalla (the left)

## 3 Farmers' Speech

Three farmers (from River Nile, Gezira and Sennar State) also made speech as representatives of rice cultivation farmer. They told their opinions and their experiences on upland rice cultivation. Mr. Ali Abdallah (River Nile State) mentioned necessity of machinery and more training to boost rice cultivation.



Three farmers. From the left, Mr. Ali Abdallah (River Nile), Mr. Dafaalla Bashir (Gezira) and Mr. Alfadil Mohammed (Sennar).



A banner of the Forum prepared by Gezira State Ministry of Agriculture.



Gezira Rice (named 'Gezira Promise', the white rice in the center of the left photo and the 2nd from the front of the right photo) were cooked and served as breakfast.



At the end of the Forum, Dr. Gafer and Dr. Rodwan awarded the testimonial to Mr. Akio Goto (JICA Rice Cultivation Expert, of the left photo) and Mr. Takamasa Ando (JICA Rice Cultivation Expert, of the right photo).

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