



Workshop

on

“Best Practices in Mung bean (Green gram) Seed Production, Quality Control and Maintenance”

29 February – 1 March 2016, Magway, Myanmar

(Venue: Oil Seed Crop Research Center, Department of Agricultural Research (DAR), Magway)

CONCEPT NOTE

Introduction

Mung bean (*Vigna radiata* (L.) R. Wilczek var. *radiata*) is one of the most important food legume crops in South, East and Southeast Asia, where 90% of global production currently occurs. It is also known as mung, moong, green gram, golden gram, Chickasaw pea, Oregon pea and chop suey bean. Mung bean is a relatively drought-tolerant and low-input crop that can provide green manure as well as livestock feed and thus is favoured by smallholder farmers. It is an important rotation crop for rice farmers in Myanmar. Mung bean has an average benefit: cost ratio of 3.4, in comparison to 1.4 for rice. Despite holding such great promise, Mung bean is often grown in marginal lands making it prone to a number of abiotic stresses causing tremendous yield loss. Non-availability of seed of improved varieties, pests and diseases and poor crop management practices are also major factors contributing to the yield gap. Tolerance to abiotic stress is more important in terms of climate resilience as this

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property is a major factor in the crop's adaptation to new environment. Terminal heat and drought stress may lead to considerable flower drop and reduction in the overall yield. As the climate changes over a period of time, the synchrony between the climate and crop commonly gets disrupted. Given the economic importance as a short-term cash crop, Mung bean holds great potential in enhancing income for small holder farmers. Hence, there is a need to strengthen the capacities of key stakeholders involved in Mung bean production in the dry zone of Myanmar in terms of understanding and applying best practices for enhancing climate resilience in the seed production, quality control and maintenance aspects of Mung bean crop.

Background

This workshop is one of the activities under the project titled '*An Integrated Rural Economic and Social Development Programme for Livelihoods Improvement in the Dry Zone of Myanmar*', funded through the Livelihoods and Food Security Trust Fund (LIFT) and co-implemented by the Asian and Pacific Centre for Transfer of Technology (APCTT) of the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) in partnership with the United Nations Centre for Alleviation of Poverty through Sustainable Agriculture (CAPSA-ESCAP), the Centre for Sustainable Agricultural Mechanization (CSAM) and the Network Activities Group (NAG). The Department of Rural Development of the Ministry of Livestock, Fisheries and Rural Development (DRD-MLFRD) of Myanmar is the focal government agency to collaborate in the implementation of the Project. The workshop theme has been identified based on intensive consultations with a range of stakeholders at the inception stage of the project.

The objectives of the proposed workshop to be conducted by the Asian and Pacific Centre for Transfer of Technology (APCTT) and Network Activities Group on "Best practices in Mung bean (Green gram) seed production, quality control and maintenance in Myanmar" scheduled to be held from February 29 - March 1, 2016 are as follows:

- To understand the constraints in Mung bean seed production in the dry zone of Myanmar

- To identify solutions to improve the Mung bean seed production systems in the dry zone of Myanmar.

Target Group

Lead farmers, farmer association representatives, NGOs and LIFT implementing partners involved in Mung bean seed production, key nodal agencies of the government including Department of Agricultural Research (DAR) and the private sector (entrepreneurs as well as representatives from seed farms)

Organization and Programme

The workshop on “Best Practices in Mung bean (Green gram) Seed Production, Quality Control and Maintenance” will be conducted in a participatory mode. During the workshop, the constraints in Mung bean seed production in the dry zone of Myanmar will be brainstormed with the participants through interactive discussions to identify key challenges and technical barriers related to Mung bean production. Based on the observations, a few best practices and solutions for fixing problems in Mung bean seed production will be shared with the participants. This workshop will also cover aspects of different seed production systems at the level of: individual farmers, farmer groups, non-governmental organizations and private sector.

For further information, please contact:

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(Venue: Oil Seed Crop Research Center, Department of Agricultural Research (DAR),
Magway)

PROVISIONAL PROGRAMME

Day 1: Monday, 29 February 2016

TIME	SESSION TITLE	SESSION DESCRIPTION
8.30 – 9.00 am	Registration	Registration of participants
9.00 – 10.00 am	Session 1: Inaugural session	<p>Inaugural Address – Dr. Tun Shwe, Head, Peas and Beans Division, Department of Agricultural Research (DAR), Myanmar</p> <p>Opening Remarks – Mr. Harald Kreuzer, Programme Officer, LIFT Fund</p> <p>Background to the Workshop – Dr. Krishnan S. Raghavan, Coordinator, Technology Transfer, APCTT-ESCAP</p> <p>Self-introduction of participants and a brief discussion on expectations from the workshop</p> <p>Group Photo</p>
10.00– 10.20 am	Coffee break	

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TIME	SESSION TITLE	SESSION DESCRIPTION
10.20 am – 12.00 pm	Session 2: Constraints to mung bean seed production	Biotic Stresses Abiotic Stresses Discussion <i>Resource Person: Dr. Ram Nair, AVRDC – The World Vegetable Center</i>
12.00 – 1.00 pm	Lunch	
1.00 – 2.30 pm	Session 3: Constraints to mung bean seed production	Agronomic Practices – Dr. Ram Nair, AVRDC Infrastructure Facilities – Dr. Ram Nair, AVRDC Outcome of APCTT-led Case Studies on Oilseeds and Pulses and Legumes – - Mr. Tin Maung Shwe, Consultant, APCTT-ESCAP - Dr. Satyabrata Sahu, Coordinator, Technology Intelligence, APCTT-ESCAP Discussion
2.30 – 2.50 pm	Coffee break	
2.50 – 5.00 pm	Session 4: Open Forum on Constraints to mung bean seed production	Discussion on various constraints in Mung bean seed production, quality control and maintenance
5.00 – 5.15 pm	Session 5: Wrap up of the Day	Key Learning Points <i>Resource person: Dr. Ram Nair, AVRDC – The World Vegetable Center</i>

Day 2: Tuesday, March 1, 2016

TIME	SESSION TITLE	SESSION DESCRIPTION
8.30 am – 10.00 am	Session 6: Agronomic practices	Pre-sowing Preparations - Site Selection - Land Preparation - Fertilizer Application - Seed Treatments - Methods of Sowing - Intercultural Operations <i>Resource person: Dr. Ram Nair, AVRDC – The World Vegetable Center</i>

TIME	SESSION TITLE	SESSION DESCRIPTION
10.00– 10.20 am	Coffee break	
10.20 – 12.00 pm	Session 7: Crop protection	Management of Biotic and Abiotic Stresses <i>Resource person: Dr. Ram Nair, AVRDC – The World Vegetable Center</i>
12.00 – 1.00 pm	Lunch break	
1.00 – 3.00 pm	Session 8: Harvesting and storage	Stage of Harvest Methods of Harvesting Storage Methods <i>Resource person: Dr. Ram Nair, AVRDC – The World Vegetable Center</i>
3.00 – 3.20 pm	Coffee break	
3.20 –4.50 pm	Session 9: Open Forum	<ul style="list-style-type: none"> • Q&A on Best Practices in Mung bean seed production, quality control and maintenance • Summary of workshop outcomes • Follow up actions <i>Moderators: Dr. Satyabrata Sahu, Coordinator, Technology Intelligence, APCTT / Dr. Ram Nair, AVRDC – The World Vegetable Center</i>
4.50 – 5.00 pm	Session 10: Closing remarks	Closing Remarks - <i>Dr. Krishnan S Raghavan, APCTT-ESCAP</i> - Mr. Harald Kreuzscher, Programme Officer, LIFT Fund - Mr. Bobby, CEO, Network Activities Group (NAG)
5.00 – 5.15 pm	Evaluation	Meeting Evaluation