LANGUAGE: English

**DATE:** 24<sup>th</sup> Nov. – 27<sup>th</sup> Nov. 2015

# **EAPVPF**

# EAST ASIA PLANT VARIETY PROTECTION FORUM WORKSHOP ON PLANT VARIETY PROTECTION: SETTING UP EXAMPLE VARIETY FOR SELECTED CROPS (RICE) (activity under East Asia Plant Variety Protection Forum)

#### REPORT

Prepared by the Department of Agriculture, Malaysia

## 1.0 INTRODUCTION

Rice has been an important crop in PVP applications taking up 13% of total applications received since year 2008. In 2015, Malaysia is expecting approximately 15 varieties of rice to be granted PBRs. There are more applications on rice expected in years to come.

Due to the trend of number of applications received, presently, Malaysia had established a rice DUS Testing Center in the northern region for better monitoring and improving quality of DUS Testing on rice as previous tests were conducted at breeder's plot or rented plot due to absence of rice testing center. However, current set of example varieties for testing rice need to be improved and developed in a more proper way.

Result from the discussion in the 8<sup>th</sup> Meeting of East Asia Plant Variety Protection Forum (EAPVPF) in Seoul, Korea on 2<sup>nd</sup> September 2015, a workshop on plant variety protection for the regional countries has been proposed to be organized in Malaysia with the support from Japan and Vietnam. This course is one of the activities carried out aimed for harmonizing PVP system in the region.

Participants in this program include 4 rice experts from Japan and Vietnam as resource persons, 1 representative from EAPVP Forum office, 7 participants from EAPVPF member countries i.e. Cambodia, Lao PDR, Myanmar, Philippines, Thailand and Vietnam, 10 examiners from Department of Agriculture Malaysia, 4 officers from other agencies and secretariat from PVPRO, Malaysia.

The objective of this exercise is to work with dispatched experts in refining the techniques on selection of example varieties, which rice is used as study subject. The knowledge acquired will be applied in selecting example varieties of other crops.

# 2.0 PRESENTATIONS AND LECTURES



Figure 2.0.1 Group Photo: Workshop On Plant Variety Protection: Setting Up Example Variety for Selected Crops (Rice)

Opening address by Mr. Sulaiman bin Hashim, Deputy Director, Crop Quality Control Division, Department of Agriculture, Malaysia representing the Director for State of Perak and remarks by Ms. Kazue Matsubara, representative of East Asia Plant Variety Protection Forum (EAPVPF) Office, Japan.

# **2.1 Presentations**

Presentation 1: Rice Breeding, Production and Distribution of Rice in Malaysia presented by Dr. Asfaliza binti Ramli, Deputy Director, Malaysia Agricultural Research and Development Institute (MARDI), Seberang Prai, Pulau Pinang.

Presentation 2: Protection of New Varieties of Rice in Malaysia presented by Mr. Sulaiman bin Hashim, Deputy Director, Crop Quality Control Division, Department of Agriculture, Malaysia.

# 2.2 Country Reports



Figure 2.2.1 Presentations of country reports by EAPVP member countries representatives.

**Cambodia** : Situation of Rice Production in Cambodia by Mr. Ngoun Marinat, Technical Officer of Department of Rice Crop (DRC), Cambodia.

**Japan**: Outline of Examination System and Rice Breeding in Japan by

Mr. Yoshiaki Takamatsu, Ministry of Agriculture Forestry and Fisheries

(MAFF), Japan.

**Lao PDR**: Seed Development in Lao PDR by Mr. Vandy Phetpaseuth, Vice Director

of Agronomy Management Division, Department of Agricultire, MAF, Lao

PDR.

Myammar : Country Report (Myammar) by Ms. Chan Yan Win, Junior Research

Assistant, Department of Agricultural Research, Myammar.

Philippines: Philippines Rice Breeding and Production by Ms. Elvira D. Morales, Plant

Variety Protection Office, Philippines.

**Thailand**: Country Paper (Thailand) by Dr. Somsong Chotechuen (Mr.), Rice

Department, Ministry of Agriculture and Cooperative Thailand.

**Vietnam**: Situation for Rice in Vietnam by Mr. Mai The Tuan, National Center for

Plant Testing (NCRT), Plant Variety Protection Office Vietnam.

# 2.3 Lectures



Figure 2.3.1 Lectures by rice experts from Japan and Vietnam.

Topic 1: Basic Rules of DUS Test by Mr. Tadao Mizuno, Former Chief Examiner, Plant Variety Protection Office, Ministry of Agriculture, Forestry and Fisheries, Japan.

Topic 2: Methods of Evaluation of Each Characteristics by Mr. Nguyen Quoc Phuong, National Center for Plant Testing (NCRT), Plant Variety Protection Office Vietnam.

Topic 3.1: Example Variety by Mr. Tadao Mizuno, Former Chief Examiner, Plant Variety Protection Office, Ministry of Agriculture, Forestry and Fisheries, Japan.

Topic 3.2: Selection of Example Varieties in NCSS by Mr. Koji Nakanishi, Nishi-Nihon Station for National Center for Seeds and Seedlings (NCSS), Japan.

## 3.0 PRACTICAL SESSION

Participants were divided into few groups with 4 to 5 person each. Each group was given a list of varieties to work with through the practical session. Instructions and explanations of the exercise were given by Dr. Ab. Rasip bin Ab. Ghani, Technical Consultant for PVPRO, Malaysia.

# 3.1 Exercise I: Observation and Measurement

Observation and measurement data were collected based on UPOV Technical Guidelines for Rice. Participants were guided by the experts from Japan and Vietnam during the session.



Figure 3.1.1 Practical session: observation and measurement at field.

# 3.2 Exercise II: Note Setting

Practical sessions were then continued with data key-in and data evaluation. By using Table 3.2.1, participants were given group task in setting up notes for selected measurement characteristic.

decimal point	Notes	1	2	3	4	5	6	7	8	9
1										
	range	1	1	1	1	1	1	1	ì	ı
	range/note									
	Mid point									

Table 3.2.1 Note Setting Table.

Later, notes for each variety were identified and were key-in in the table as showed below.

		MS				
)	Characteristics	QN				
		(13) Leaf blade: length	Notes			
	Unit	cm				
	Variety					
1	MR71					
2	MR123					
3	MR 159					
4	MR167					
5	MR 185					
6	MR 211					
7	MR 219					
8	MR 220					
9	Ria					
10	Pulut Malaysia					
11	Mahsuri					
12	MRQ74					
13	MR 220 CL2	4				
14	Mat Chandu					
15	IRRI 124					
16	IRRI 126					
17	IRRI 129					
18	FR13A					
19	IR36					
	Max					
	Min					
	range					
140	one note range					

Table 3.2.2 Selection of Example Varieties Table.

These steps need to be repeated for all characteristics in selecting a set of example variety. For practical reasons it is recommended to choose overall set of example varieties for Test Guidelines in a way that all the desired characteristics and states of expression are covered by the minimum total number of example varieties.



Figure 3.2.3 Discussion in group during group task.

# 3.3 Exercise III: Distinctness Test

Participants were given example case of Distinctness Test as showed in Figure 3.3.1. As result of this exercise, each group need to present list of distinct characteristics gained through discussion.

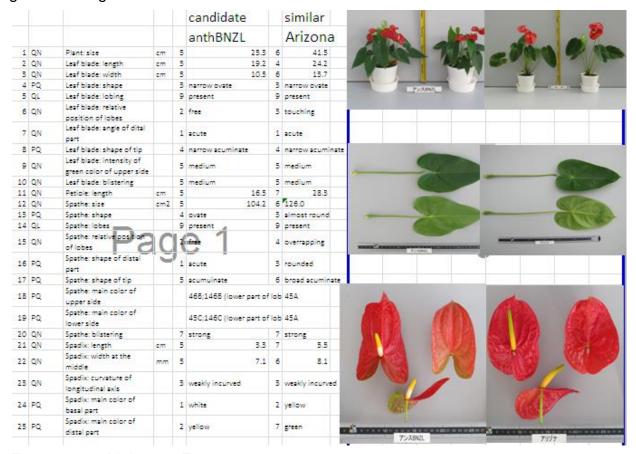


Figure 3.3.1 Distinctness Test.

# 4.0 CONCLUSION



Figure 4.0.1 Group Photo: Wrap up Session

In conclusion, the main objective of this workshop, which is to provide participants with better understanding on selection of example varieties and to acquire better skills on how to observe and evaluate characteristics of plants, has been achieved.

Further collection and evaluation of observations and measurements data need to be done for at least two continuous years. A good set of example variety should be used for as many characteristics as possible.

Nevertheless, this workshop did provide excellent opportunity for the participants to build rapport with trainers and experts too. The knowledge acquired will be applied in selecting example varieties of other crops.

# ANNEX 1 – AGENDA OF THE COURSE

Date	Time	Program	Remarks / Venue
23 Nov 2015 MON	2000 2130	Opening and Welcoming dinner	Bukit Merah Lake Town Resort, Perak
24 Dec 2015 TUE	0800 0830 0830 0900	Registration  Presentation 1: Rice breeding, production and distribution in Malaysia by Dr. Asfaliza Ramli, Senior Research Officer, Malaysian Agricultural Research & Development Institution (MARDI)	Titi Serong Agricultural Center, Perak
	0900 0930	Presentation 2: Protection of New Varieties of Rice in Malaysia by Mr. Sulaiman Hashim, Deputy Director, Crop Quality Control Division, Department of Agriculture, Malaysia	
	0930 1040	Country report (10 min. per country)  Cambodia - by Mr. Ngoun Marinat Japan – by Mr. Yoshiakki Takamatsu Lao PDR – by Mr. Vandy PHETPASEUT Myanmar – by Ms. Chan Yan Win Philippines – by Ms. Elvira D. Morales Thailand – by Dr. Somsong Chotechuen Vietnam – by Mr. Mai The Tuan	
	1040 1100 1100 1230	Group photo & Refreshment  Topic 1: Basic rules of DUS Test by Mr. Tadao Mizuno, Former Chief Examiner, Plant Variety Protection Office, Ministry of Agriculture, Forestry and Fisheries, Japan	
	1230 1400 1400 1500	Lunch & Prayer  Topic 2: Methods of Evaluation of each Characteristics by Mr. Nguyen Quoc Phuong, National Center for Plant Testing (NCRT), PVP office Vietnam	
	1500 1515 1515 1545	Refreshment  Topic 3.1: Example Varieties by Mr. Tadao Mizuno Mr. Tadao Mizuno, Former Chief Examiner, Plant Variety Protection Office, Ministry of Agriculture, Forestry and Fisheries, Japan	

Date	Date Time Program		Remarks / Venue	
	1545 1630	Topic 3.2: Selection of Example Varieties in NCSS by Mr. Koji Nakanishi, Nishi Nihon Station for National Center for Seeds and Seedlings (NCSS), Japan		
25 Nov 2015	0830	Exercise 1: DUS Test, making a test report	Titi Serong	
WED	1000	(including 15 minutes explanation)	Agricultural Center, Perak	
	1000 1015	Refreshement		
	1015 1230	Exercise 1: DUS Test, making a test report		
	1230 1400	Lunch & Prayer		
	1400 1700	Exercise 1: DUS Test, making a test report		
26 Nov 2015 THU	0830 1000	Exercise 2: Selection of Example Varieties (including 15 minutes explanation)	Titi Serong Agricultural	
1110	1000	Tea Break	Center, Perak	
	1015		_	
	1015 1230	Exercise 2: Selection of Example Varieties		
	1230	Lunch & Prayer		
	1400 1400	Eversing 2: Selection of Evernle Veriation		
	1700	Exercise 2: Selection of Example Varieties		
27 Nov 2015 FRI	0800	Check-Out	Hotel Melor Inn @ Perak	
	0830	Group presentation of DUS Test & Selection of	Titi Serong	
	1000 1000	Example Varieties Tea break	Agricultural Center, Perak	
	1030	Tou broak		
	1030 1130	Wrap-up Discussion Q&A		
	1130 1200	Closing ceremony		
	1200 1300	Lunch		
	1300 1700	Field Visit to Sekinchan Rice Museum		

## ANNEX 2 – LIST OF PARTICIPANTS

## **CAMBODIA**

Ngoun MARINAT (Mr.), Technical Officer, General Directorate of Agriculture, Department of Rice Crop, <a href="mailto:ngounmarinat@gmail.com">ngounmarinat@gmail.com</a>

### LAO PDR

Vandy PHETPASEUT (Mr.), Deputy Director, Agronomy Management Division, Department of Agriculture, Ministry of Agriculture and Forestry, vanthieng 06@yahoo.com

## **MYANMAR**

Chan Yan WIN (Ms.), Junior Assistant Researcher, Rice Division, Department of Agricultural Research (DAR), Myanmar, <a href="mailto:chan675@gmail.com">chan675@gmail.com</a>

## **PHILIPPINES**

Elvira D. MORALES (Ms.), Agriculturist II, Plant Variety Protection Office, The Republic of the Philippines, <a href="mailto:elviemorales@yahoo.com">elviemorales@yahoo.com</a>

## **THAILAND**

Somsong CHOTECHUEN (Dr.), Agricultural Research Officer, Senior Professional Level, Rice Research and Development, Rice Department, The Kingdom of Thailand, somsongch@hotmail.com

## **VIETNAM**

Nguyen Quoc PHUONG (Mr.), Examiner, Vanlam Station, National Center for Plant Testing, Socialist Republic of Vietnam, <a href="mailto:quocphuongtt07@gmail.com">quocphuongtt07@gmail.com</a>

Mai The TUAN (Mr.), Examiner, Vanlam Station, National Center for Plant Testing, Socialist Republic of Vietnam, <a href="maithetuan@gmail.com">maithetuan@gmail.com</a>

#### **JAPAN**

Tadao MIZUNO (Mr.), Former Chief Examiner, Plant Variety Protection Office, Ministry of Agriculture, Forestry and Fisheries Japan, <a href="mailto:tadao.mizuno@gmail.com">tadao.mizuno@gmail.com</a>

Kazue MATSUBARA (Ms.), Staff, JATAFF, Japan, kmatsubara112@gmail.com

Yoshiaki Takamatsu, Examiner, Plant Variety Protection Office, Intellectual Property Division, MAFF, Japan, <u>yoshiaki takamatsu@nm.maff.go.jp</u>

## **MALAYSIA**

Dr. Asfaliza BINTI RAMLI (Ms.), Deputy Director, Malaysian Agricultural Research and Development Institute (MARDI), Malaysia, <u>aliza@mardi.gov.my</u>

Nuraziawati BINTI MAT YAZIK (Ms.), Research Officer, Malaysian Cocoa Board, Malaysia, nura@koko.gov.my

Pearlycia BROOKE (Ms.), Research Officer, Department of Agriculture Sarawak, Malaysia, <a href="mailto:pearlycb@sarawak.gov.my">pearlycb@sarawak.gov.my</a>

Shakinah BINTI SALLEH (Ms.), Research Officer, Malaysian Nuclear Agency, Malaysia, <a href="mailto:shekinah@nuklearmalaysia.gov.my">shekinah@nuklearmalaysia.gov.my</a>

Mohd Rezduan BIN MAT SALLEH (Mr.), Assistant Research Officer, Malaysian Agricultural Research and Development Institute (MARDI), Malaysia, Malaysia, dowell@mardi.gov.my

Christopher J. BIAI (Mr.), Principal Assistant Director, Department of Agriculture, Malaysia, <a href="mailto:christopherib@doa.gov.my">christopherib@doa.gov.my</a>

Sudarti BINTI ASRI (Ms.), Agriculture Officer, Department of Agriculture, Malaysia, sudarti@doa.gov.my

Raudah BINTI TALIB (Ms.), Agriculture Officer, Department of Agriculture, Malaysia, <a href="mailto:raudah@doa.gov.my">raudah@doa.gov.my</a>; <a href="mailto:raudah@doa.gov.my">raudahtalib@gmail.com</a>

Nurlee BINTI MOHD. NASHARUDDIN (Ms.), Agriculture Officer, Department of Agriculture, Malaysia, <u>nurlee@doa.gov.my</u>

Nurhanisah BINTI JAUHARI (Ms.), Agriculture Officer, Department of Agriculture, Malaysia, <a href="https://hanisah\_9802@yahoo.com">hanisah\_9802@yahoo.com</a>

Anita BINTI YAHYA (Ms.), Agriculture Officer, Department of Agriculture, Malaysia, anita.doa@gmail.com

Zulmi BIN YAACOB (Mr.), Agriculture Officer, Department of Agriculture, Malaysia, zulmi@doa.gov.my

# **SECRETARIAT**

Sulaiman BIN HASHIM (Mr.), Deputy Director, Department of Agriculture, Malaysia, sulaiman.pvp@gmail.com

Dr. Ab. Rasip BIN AB. GHANI (Mr.), Consultant, Department of Agriculture, Malaysia, <a href="mailto:rasip.ag@gmail.com">rasip.ag@gmail.com</a>

SOO Foong Lian (Ms.), Assistant Director, Department of Agriculture, Malaysia, foonglian.soo@gmai.com

Azidah Asbhy BINTI BUYING (Ms.), Assistant Director, Department of Agriculture, Malaysia, <a href="mailto:azidah.asbhy@gmail.com">azidah.asbhy@gmail.com</a>

Muhammad Nuradib BIN MAZLAN (Mr.) Assistant Director, Department of Agriculture, Malaysia, <a href="mailto:nuradib.gov@gmail.com">nuradib.gov@gmail.com</a>

Siti Nur Nadia BINTI ABDUL RAZAK (Ms.) Assistant Director, Department of Agriculture, Malaysia, sitinurnadia@gmail.com

Siti Marina BINTI IBRAHIM (Ms.), Assistant Agriculture Officer, Department of Agriculture, Malaysia, <a href="marina.pvp@gmail.com">marina.pvp@gmail.com</a>

Zukhairo BIN RIPPIN (Mr.), Assistant Agriculture Officer, Department of Agriculture, Malaysia, <u>joul\_1095@yahoo.com.my</u>

Zainal Abidin BIN KADIR (Mr.), Assistant Agriculture Officer, Department of Agriculture, Malaysia, zainalabidinkadir@yahoo.com

Masitah BINTI SAMSUDIN (Ms.), Assistant Agriculture Officer, Department of Agriculture, Malaysia, <a href="masitah.pvp@gmail.com">masitah.pvp@gmail.com</a>

Zulkefly BIN TUMPANG (Mr.), Assistant Agriculture Officer, Department of Agriculture, Malaysia, <a href="mailto:zulkefly.pvp@gmail.com">zulkefly.pvp@gmail.com</a>

Shahrizal BIN ABDUL (Mr.), Assistant Agriculture Officer, Department of Agriculture, Malaysia

Mohammed Osmi BIN MOHAMMED SALLEH (Mr.), Assistant Agriculture Officer, Department of Agriculture, Malaysia

Ahmad Affandy BIN BAHARUDDIN (Mr.), General Office Assistant, Department of Agriculture, Malaysia

[END OF DOCUMENT]