

Current saturation of PVP system in Myanmar



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Contents



- New variety development in Myanmar
- Current saturation of Plant Variety
 Protection in Myanmar
- Future Plan



Ministry of Agriculture and Irrigation



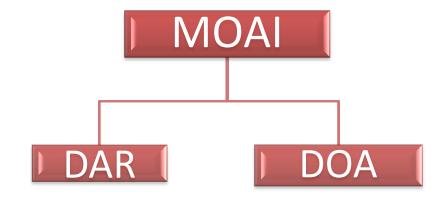
- 1. Department of Agricultural Planning
- 2. Department of Agriculture(DOA)
- 3. Department of Agricultural Research (DAR)
- 4. Settlement and Land Records Department
- 5. Irrigation Department

- 6. Agricultural Mechanization Department
- 7. Water Resources Utilization Department
- 8. Myanmar Agricultural Development Bank
- 9. Yezin Agricultural University
- **10. Survey Department**



Departments for Development of New Varieties and Seed Program

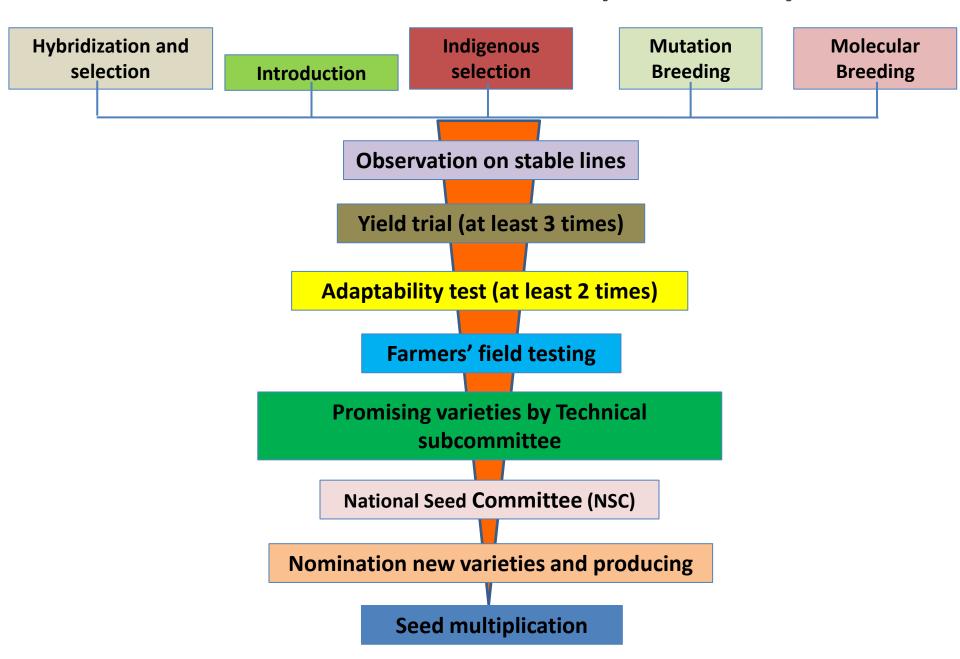




(Released 200 new varieties of different crops, multiplication of breeder seeds)

(Extension Division and Seed Division which are directly involved in the implementation of the seed program.)

Procedure for New Varieties Development in Myanmar





Genetic Resources in Myanmar



- > Seed Bank was established in 1990
- Collected accessions 483
- Characterization, Evaluation (Rice) 1095
 - and Data management (Landrace) 137
 - (other) 230
- ➤ Short term storage (10°C) 12370
- ➤ Medium long term (-5°C) 12130





- Member of the East Asia PVP forum
- Not yet UPOV Membership
- > PVP law was now submitted to Parliament for enactment in August 2015.
- ➤ The issue of PVP law in ASEAN member countries was discussed in Special Senior Officials Meeting of the 36th AMAF Meeting, Myanmar
- ➤ The meeting agreed that PVP harmonization process is still premature stage in ASEAN region.
- ➤ Myanmar has raised on the Seed Industry Development in Special SOM 36th AMAF meeting



Activities on Awareness of PVP system



- ➤ Became a party to the Convention of Biodiversity in 1994
- **➢** Became a mamber of WTO in 1995
- > Became aware of Intellectual Property Rights
- > 2004 Participated to the UPOV-INGER Workshop
- > 2006 Participated to conduct DUS test (INGER)
- 2003 at present PVP related Trainings, Workshops,
 Seminars

PVP System Establishment



အပင်မျိုးသစ်အကာအကွယ်ပေးရေးဥပဒေကြ



preparation for PVP rules and regulation

(Published the PVP law (draft) in the News Paper to get the suggestion from public at 11/7/2015)

- collection of referencevarieties
- grow-out test of knownvarieties for referencevarieties for data base
- making the DUS test guidelines



Development of National Test Guideline



Experimental site

 Biotechnology lab and field, DAR

Tested season

- Pre/ Post - monsoon seasons,2015

Tested varieties

- Rice, Sesame and Greengram

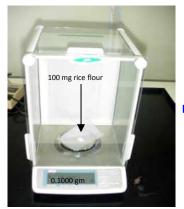
No. of tested varieties for each crops

- about 100-180 varieties

Collected data

UPOV & EAPVP harmonized TG

Testing Amylose content in Rice



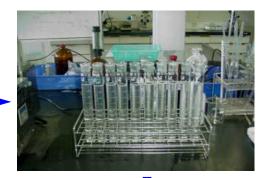
95% Ethanol (1ml)

1N NaOH (9ml)



100°C Water Bath (10 min.)

100ml volume makeup



5ml+1NCH₃COOH 1ml+(I₂ KI) 2ml

100ml volume makeup



Quartz cell

3ml



30°C Water Bath (20 min.)



620 nm Spectrophotometer



Constraints



- > PVP system development
- > Collection of reference varieties for main crop
- > Trained person for DUS test
- ➤ Technical skills of PVP Administrative knowledge



Future needs

- > Infrastructure for PVP system development
- Technology
 - Laboratory



Proposed plan

- > Training (in-country, abroad)
- > Technical and Administrative activities for development and harmonization of the PVP system
- > TG harmonization for one new crop (Globba)

