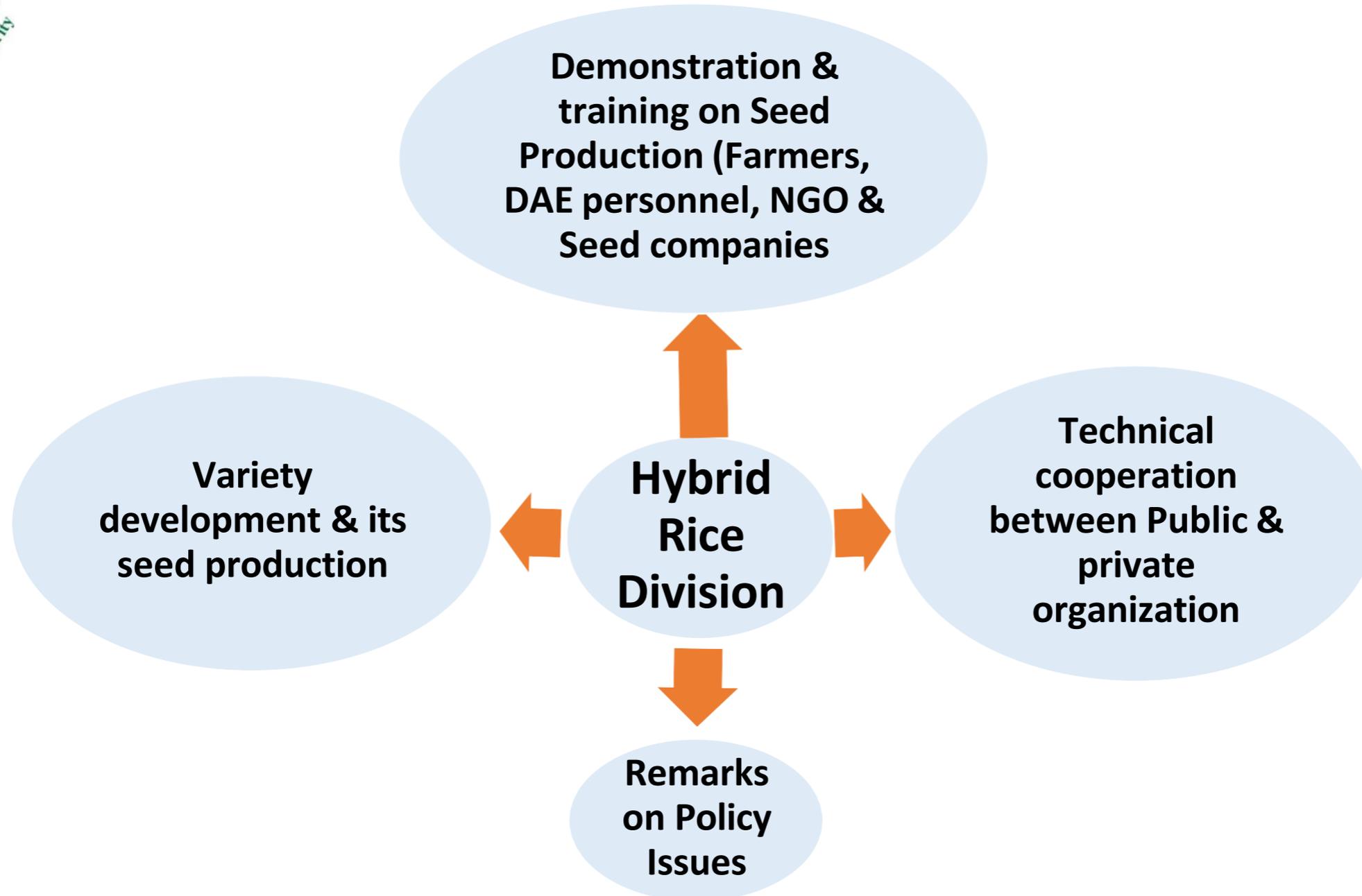


# Hybrid Rice Division



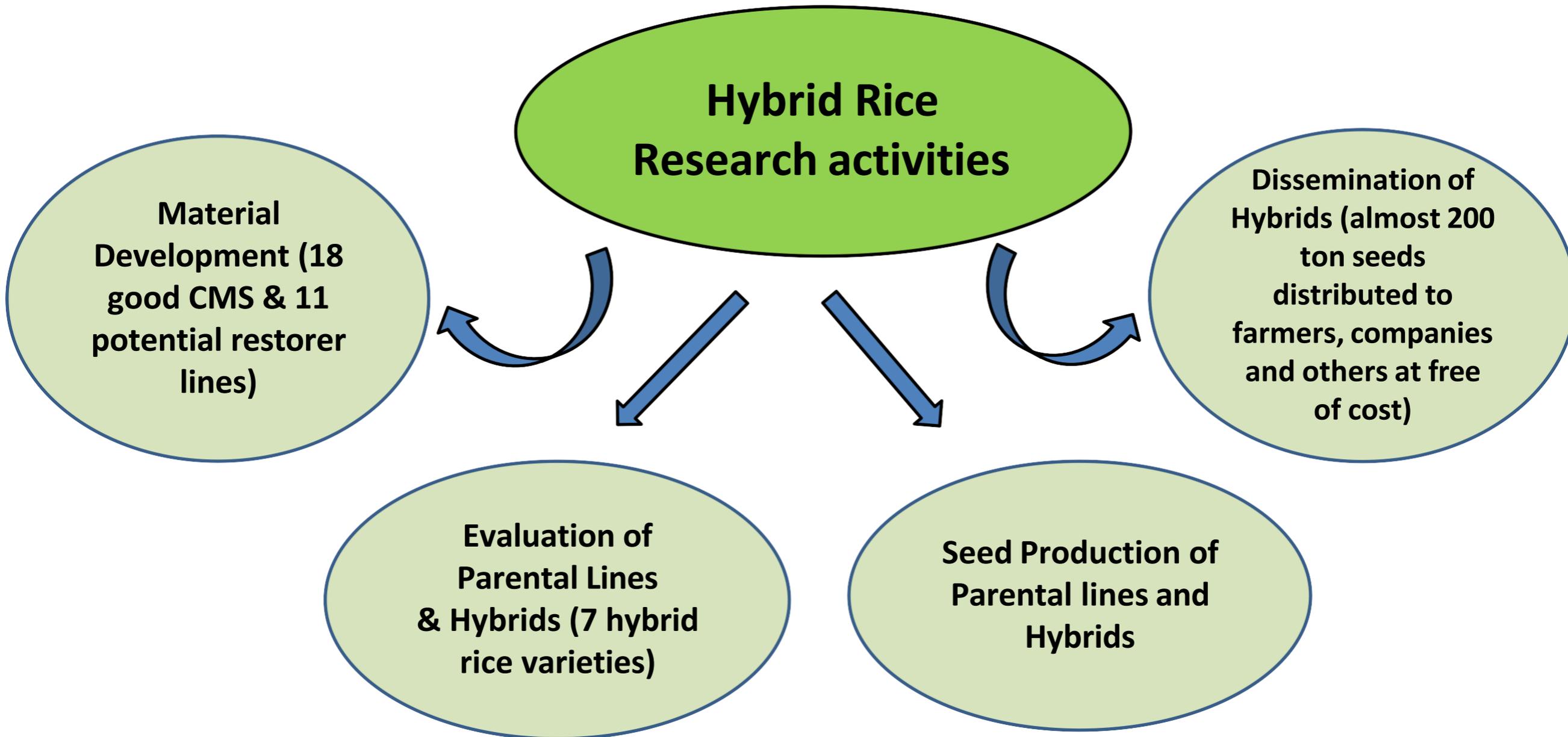
# Mandates of Hybrid Rice Division





# Achievements of Hybrid Rice Division

- 1995** → 1st restorer line (BR827R) developed in Bangladesh.
- 1997** → Started FAO funded hybrid rice project with Chinese experts.
- 2000** → 1st CMS (A) line BRRI1A developed in Bangladesh
- 2001** → 1st locally developed hybrid in Bangladesh as BRRI hybrid dhan1
- 2010** → 1st Aman variety reared in Bangladesh (BRRI hybrid dhan4)
- 2015** → Private seed entrepreneurs (Nayan seed Company) got Bangbandhu National Agricultural Award (Silver Medal) using BRRI developed hybrid rice technology
- 2018** → Start of Public-Private Partnership for hybrid rice dissemination.
- 2019** → 1st T Aus hybrid rice variety (BRRI hybrid dhan7)



## 1st Aus hybrid variety BRRI hybrid dhan7

‡ Parents are IR75608A/BRRI31R

‡ Released for Chattogram, Khulna & Rangpur regions

### ■ Salient features

- Yield (t/ha): 6.5-7.0
- Growth duration: 105-110 days
- Plant Height: 101-105 cm
- Tiller number/hill (average) :10-12
- Grain type: Long slender (L/B= 3.4)
- Amylose & Protein (%): 23.0 & 10.3

# Upcoming BRRI hybrid dhan8 (Final year evaluation for Boro)

## ■ Salient features

- Yield (t/ha): 10-10.5
- Growth duration: 140-145 days
- Plant Height: 105-110 cm
- Average tiller number/hill:12-15
- Grain type: Long slender (L/B= 3.5)
- Amylose & Protein (%): 23.5 & 9.4



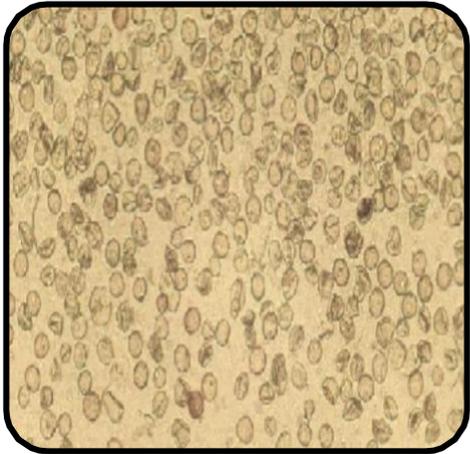
Proposed for BRRI hybrid dhan8



## Four new CMS lines were developed for Boro season

- ❑ Salient features of newly developed CMS lines are as follows:-
  - Stable in sterility status
  - Long slender grain
  - High out cross potential (>50%)
  - Duration about 140-145 days
  - Plant height 90-95 cm
  - High tillering ability
  - Good combiner with restorer lines

# Four new CMS lines were developed for Boro season (con.)



A. Pollen (CS)



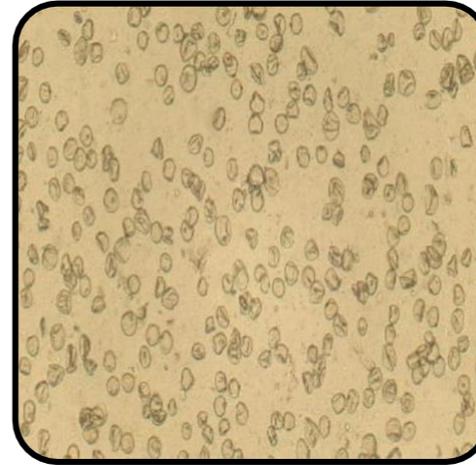
B. Rice Grain

Designation	Length (mm)	Breadth (mm)	L/B	Size & shape
BRR122A/B	9	2	4.5	LS

CS= Completely Sterile  
LS= Long slender



C. Panicle



A. Pollen (CS)



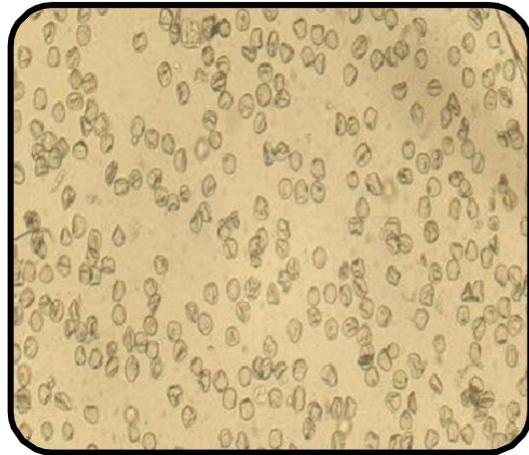
B. Rice Grain

Designation	Length (mm)	Breadth (mm)	L/B	Size & shape
BRR123A/B	8	2	4	LS



C. Panicle

# Four new CMS lines were developed for Boro season (con.)



A. Pollen (CS)



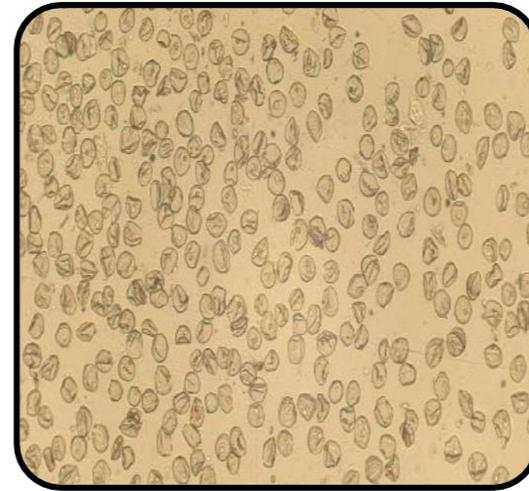
B. Rice Grain



C. Panicle

Designation	Length (mm)	Breadth (mm)	L/B	Size & shape
BRR124A/B	10	2.5	4	LS
CS= Completely Sterile				

LS= Long slender



A. Pollen (CS)



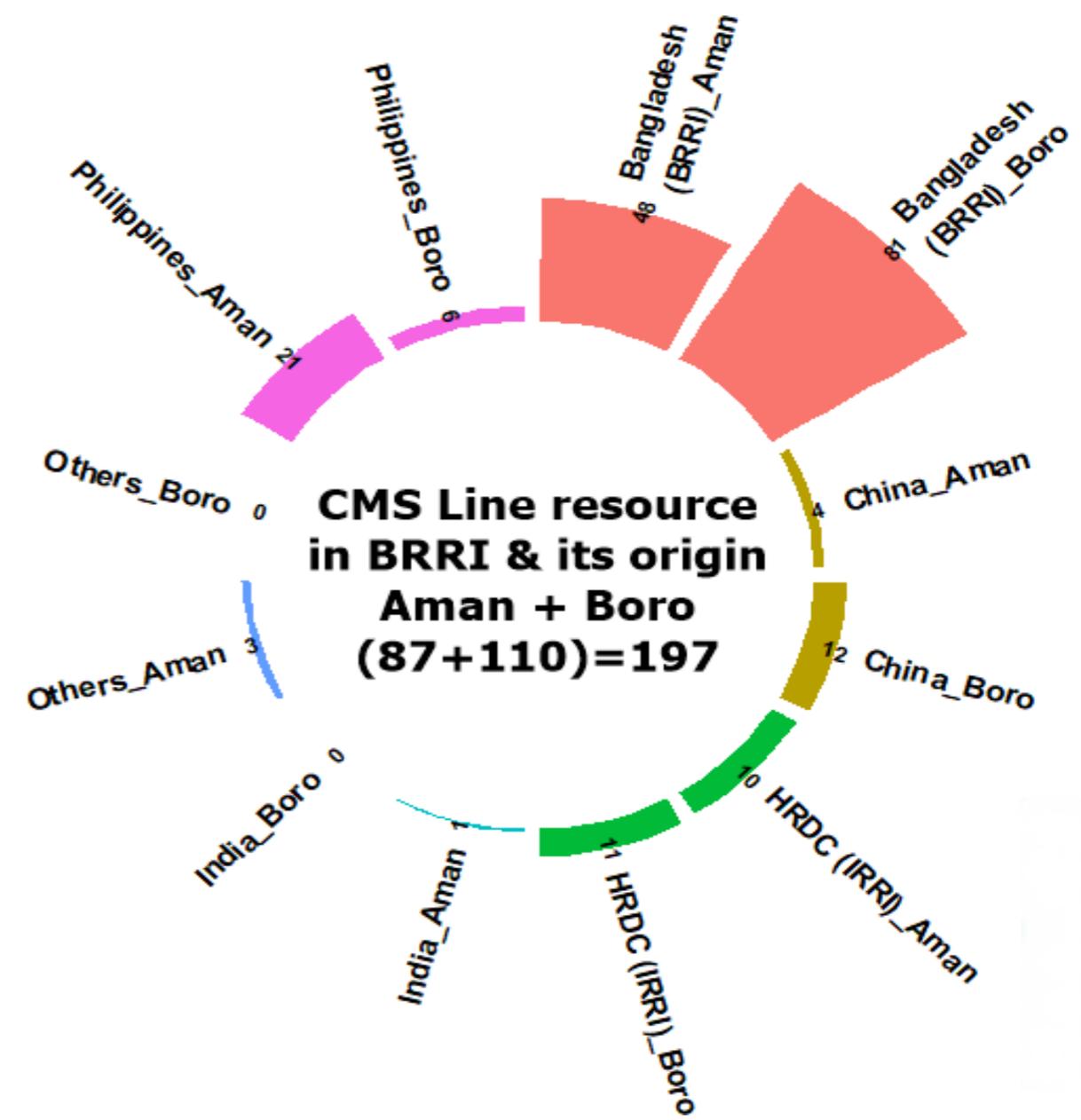
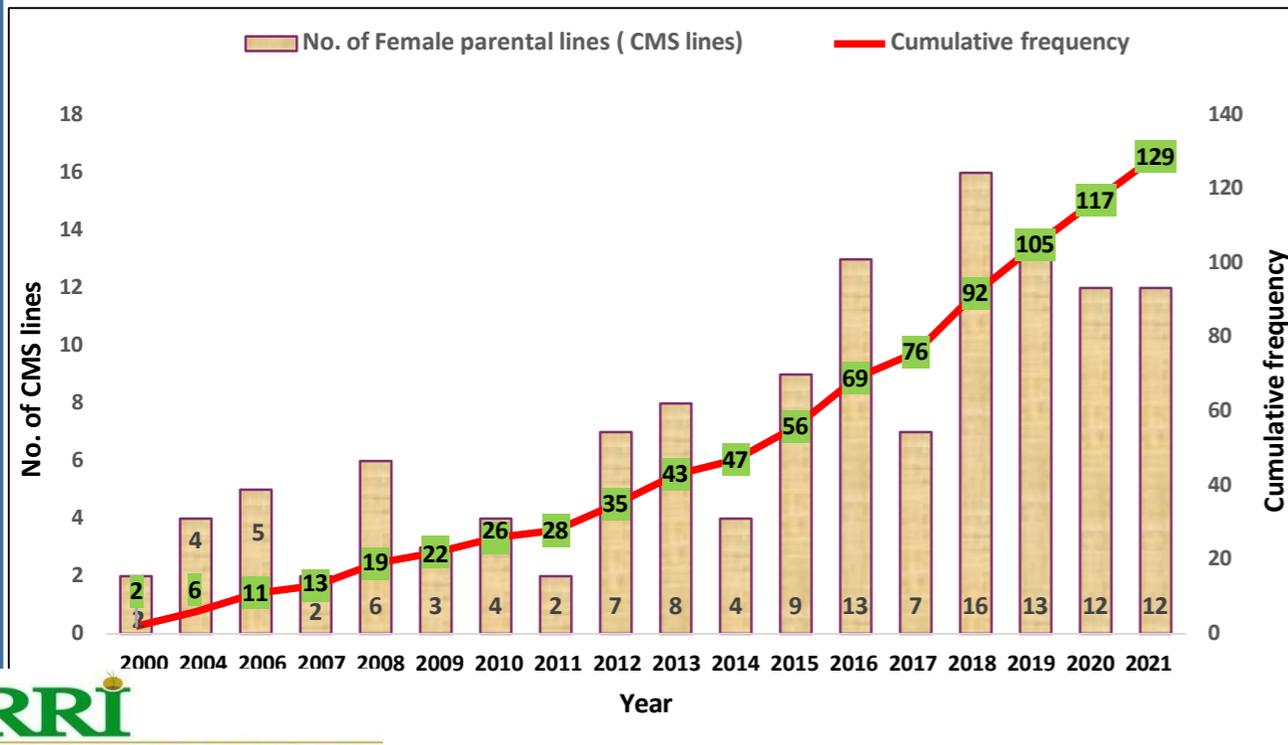
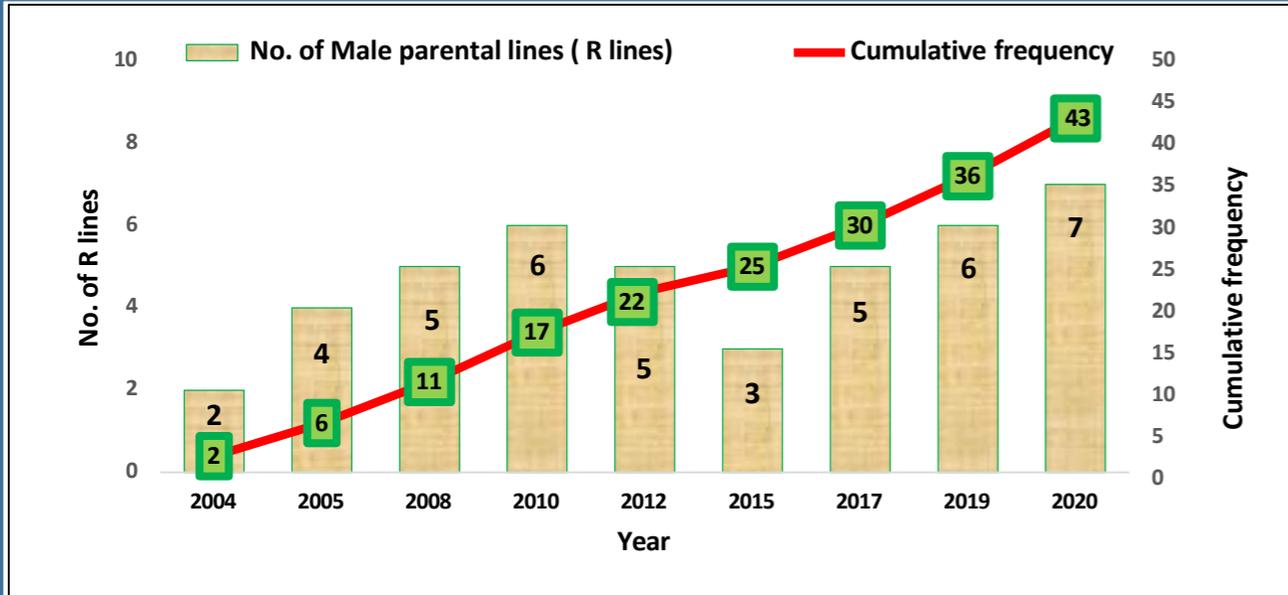
B. Rice Grain



C. Panicle

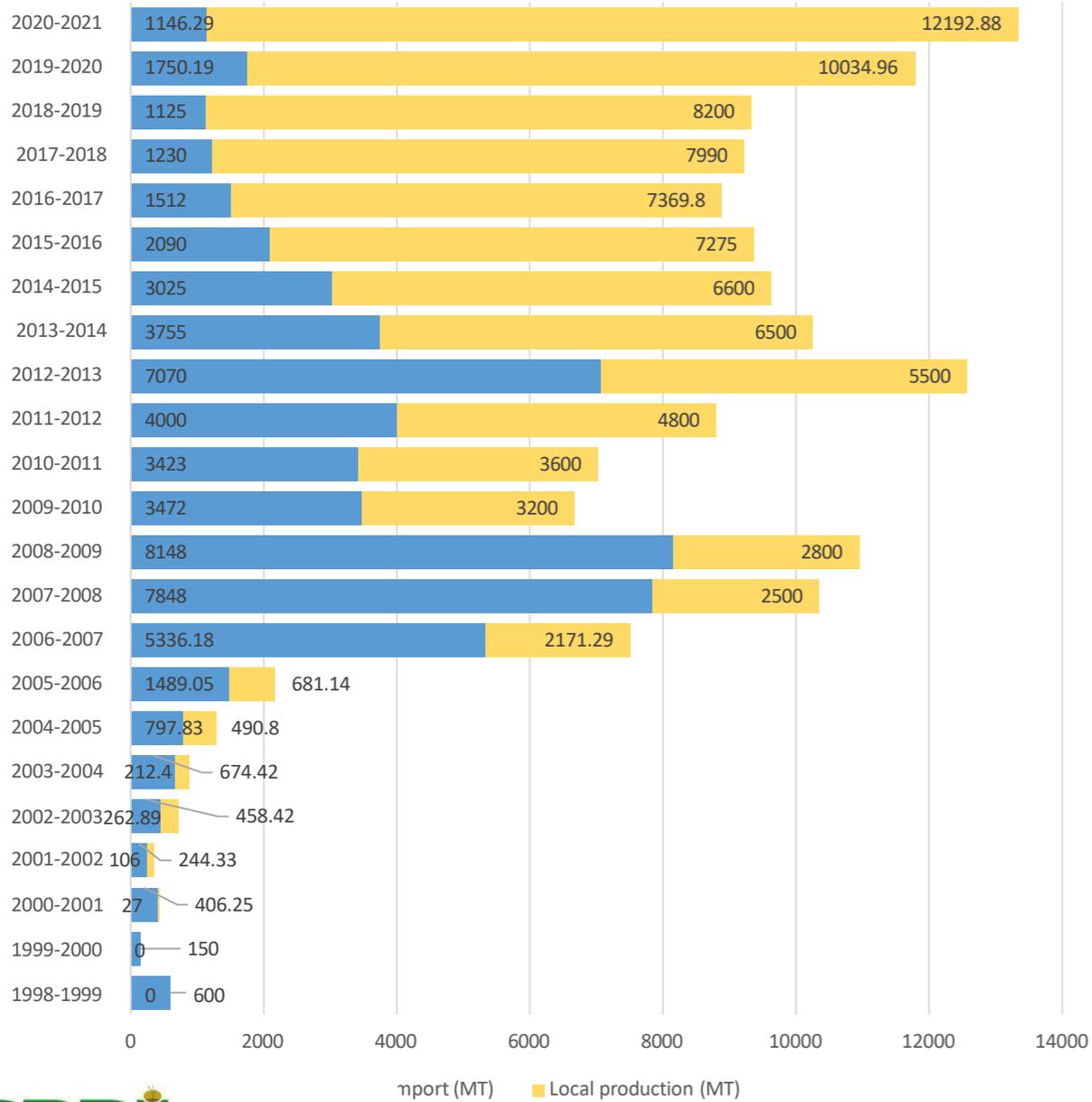
Designation	Length (mm)	Breadth (mm)	L/B	Size & shape
BRR125A/B	9	2.2	4.1	LS

# Hybrid rice parental line resource building in BRRI

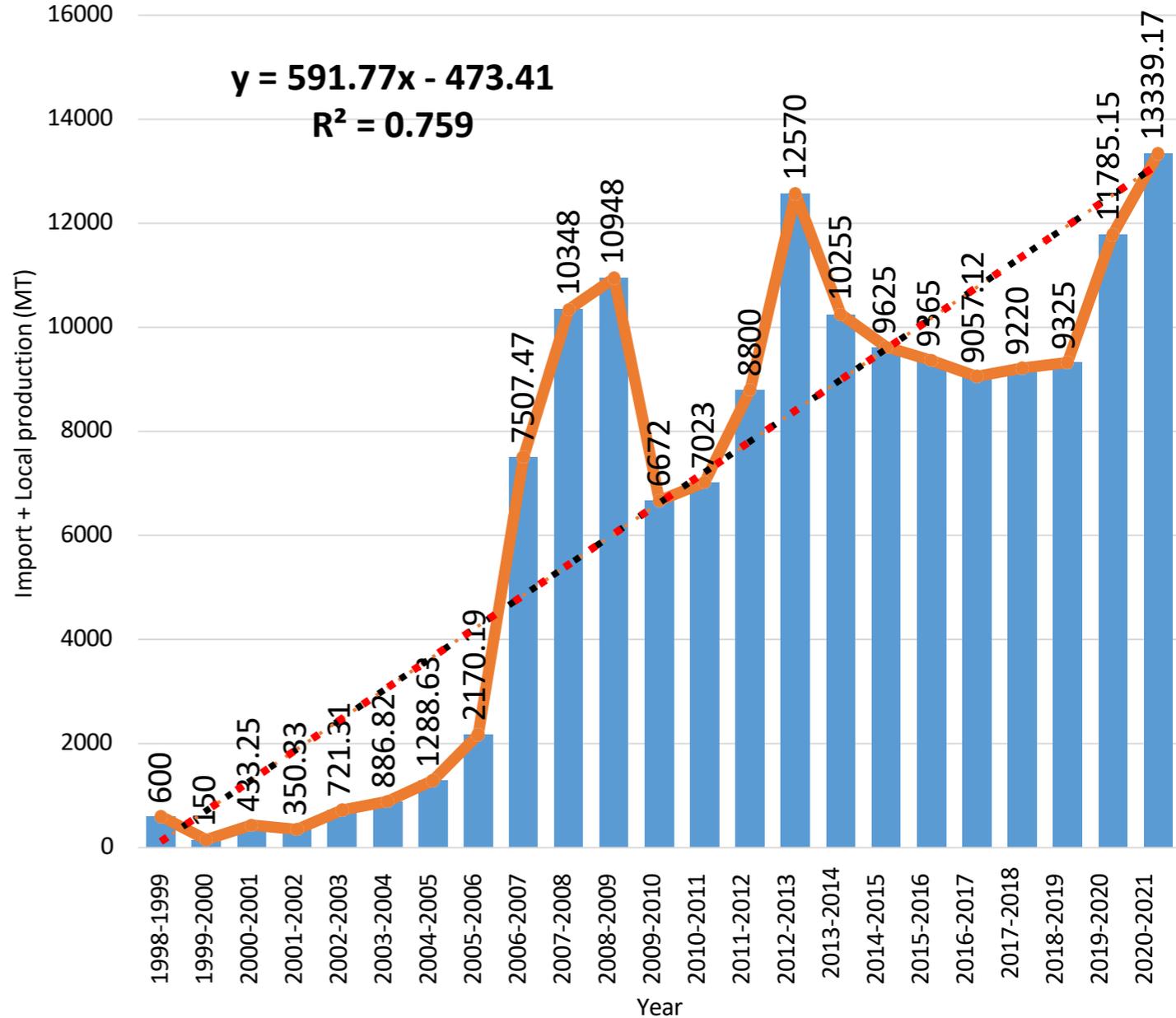


# Hybrid rice seed availability in Bangladesh

## Increasing trend of F<sub>1</sub> local production



## HYBRID RICE UTILIZATION IN BANGLADESH



# Seed production field

