

# CLASSES OF SEED



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- Nucleus Seed
- Breeder Seed
- Foundation Seed
- Certified Seed

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1. **Nucleus seed:** Nucleus seed: This is 100 per cent genetically pure seed with physical purity produced under the direct supervision of the concerned plant breeder.
2. **Breeder's seed:** This is the progeny of the nucleus seed multiplied in large area under the supervision of plant breeder and monitored by a committee. It provides cent per cent physical and genetic pure seed for production of foundation class. Golden yellow coloured certificate is issued for this category by the producing agency

# CLASSES OF SEEDS

## 3. **Foundation seed:**

- Progeny of breeder's seed is handled by recognized seed producing agencies in public and private sector under the supervision of Seed Certification Agency in such a way that its quality is maintained according to the prescribed standard.
- Seed Certification agency issues a white colour certification for foundation class seed.
- Foundation seed is purchased by Seed Corporation from seed growers.
- Foundation seed can again be multiplied by Seed Corporation in the events of its shortage with similar seed certification standard.

# CLASSES OF SEEDS

## 4. **Certified seed:**

- Progeny of foundation seed produced by registered seed growers under the supervision of Seed Certification Agency by maintaining the seed quality as per minimum seed certification standards.
- Seed Certification Agency issues a Azure Blue colour (Shade ISI No. 104) tag.

## Breeder's tag (Golden yellow)

1750/14

Quantity: 20kg

Label No. :  
 Crop : PADDY  
 Variety : Rani dhay  
 Class of Seed : Breeder Seed  
 Lot No. : KH-2014  
 Date of Test : 28-04-2015  
 \*Pure Seed : 99-90 %  
 \*Inert Matter : 0-10 %  
 \*Germination : 94 %  
 \*Genetic Purity : 100 %  
 Producing Institution :  
 \*Based on actual

Seed Production Officer  
 Breeder Seed Production  
 O.U.A.T.  
 Central Farm  
 O.U.A.T., Bhubaneswar - 751003

Tag size: 12 cm x 6 cm

Tag No. WA/05

Kind :  
 Variety :  
 Lot No. :

FOUNDATION SEED

Class of Seed :  
 Certificate No. :  
 Date of issue of Certificate :  
 Date of Test :  
 Certificate Valid upto :  
 (provided seed is stored under cool and dry environment)

Use of seed after expiry of the validity period is entirely at user's risk and the holder of the certificate shall not be responsible for any damage to the user. No one should purchase the seed if seal or the certification tag has been tampered with.

Name and Address of the Seed Producer.:

Seed Certification Officer  
 ( Name & Place )

Validity of certificate further extended upto :  
 Seed Certification Officer  
 ( Name & Place )

Tag size: 15 cm x 7.5 cm

## Certified tag (Azure blue)

CERTIFIED SEED

Kind :  
 Variety : PADDY  
 Lot No. :  
 Name and Full Address of Certified seed Producer :  
 CSSC ALANGIR  
 OSSOPCA Bhubaneswar

Class of Seed : CERTIFIED  
 Certificate No. :  
 Date of Issue of Certificate :  
 Date of Test :  
 Certificate Valid up to :  
 (Provided seed is stored under cool and dry environment)

Asst. Seed Certification Officer  
 (Name and Place)

Validity of Certificate further extended up to :  
 Asst. Seed Certification Officer  
 (Name and Place)

AE Tag No. 309119

OSSOPCA Bhubaneswar

"Use of the seed after expiry of the validity period by any person is entirely at his risk and the holder of the certificate shall not be responsible for any damage to the buyer of seed. No one should purchase the seed if seal of the certification tag has been tampered with."

Tag size: 15 cm x 7.5 cm; ISI No.104 Azure blue

# Generation system of seed multiplication

## A. **Three - Generation model**

Breeder seed - Foundation seed - Certified seed

## B. **Four - Generation model**

Breeder seed - Foundation seed (I) Foundation seed (II) - Certified seed

## C. **Five - Generation model**

Breeder seed - Foundation seed (I)- Foundation seed (II) -Certified seed (I) - Certified seed (II)

# Stages I of Seed production

**Nucleus Seed**



**BREEDER SEED**



**FOUNDATION SEED**



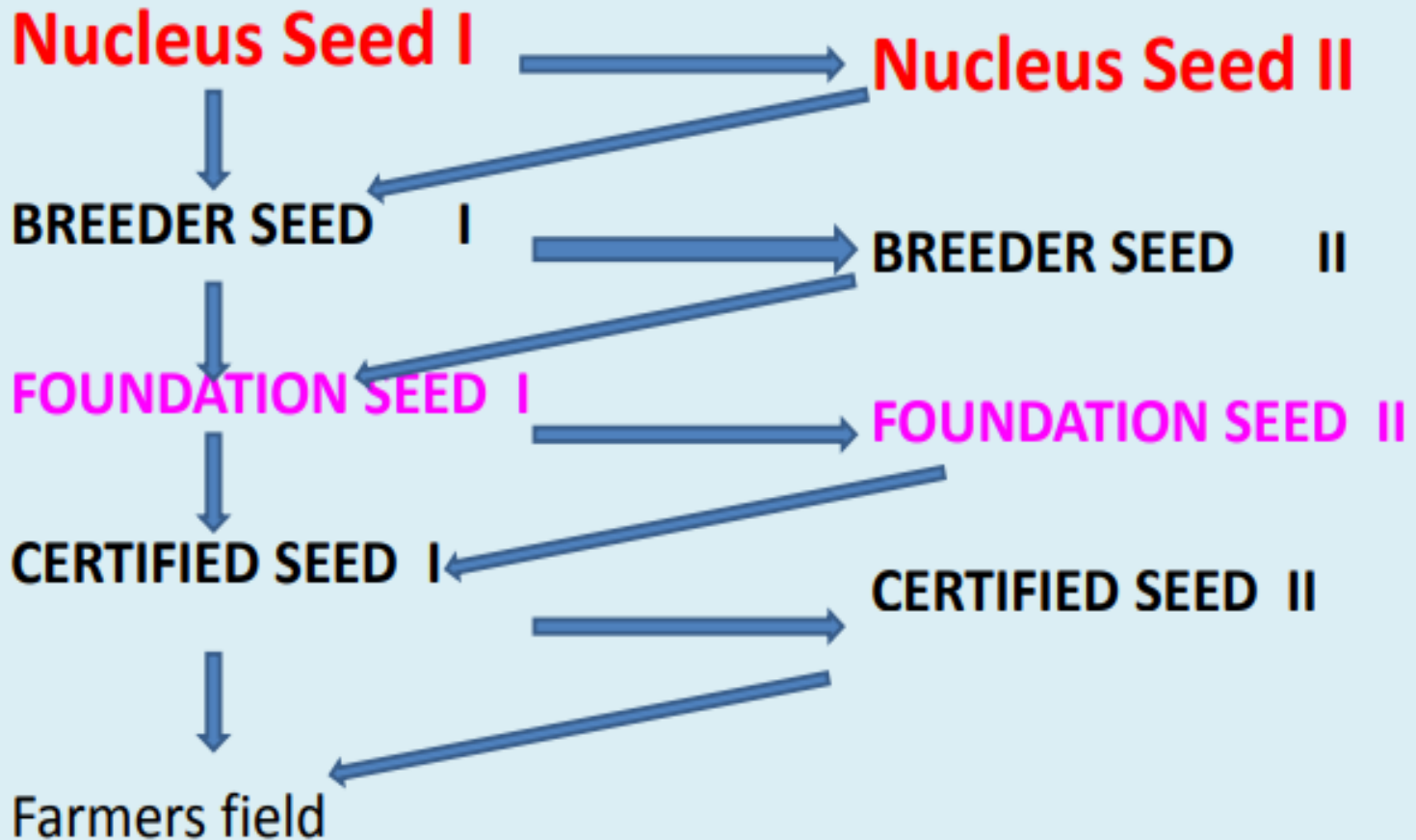
**CERTIFIED SEED**



**Farmers field**



# Stages II of Seed production



# Importance of Seed Production

- Multiplication of superior varieties
- Availability of superior varieties to masses
- Maintenance of genetic & physical purity
- Supply of high quality seeds
- Seeds have high germination standards
- Seeds have high vigour and viability status
- It maintains the excellent health status of seed

# STEPS IN SEED PRODUCTION

1. The same crop/variety with a gap of 15 days between sowing have to be considered as two different breeder seed production fields
2. Isolation distance between fields should be maintained. Rouging to be done before flowering, at the time of flowering and before harvest
3. Breeder seed crop should be harvested at maturity and threshed on clean threshing floor
4. The seeds should be dried to the moisture content of 10-12% after winnowing and cleaning
5. The breeder seeds should be processed with appropriate sieves for uniform size and colour. Stored with proper labeling
6. Drying to 12% moisture level, a sample of 500 g of breeder seed should be sent to the concerned GOT centre for conducting Grow Out Test (GOT)

A wide-angle photograph of a vast field of golden wheat under a warm, orange sunset sky. The sun is low on the horizon, creating a bright lens flare that streaks down the center of the image. In the background, a line of trees and a distant irrigation system are visible against the horizon. The overall mood is peaceful and grateful.

***THANK YOU***