

# COMPREHENSIVE AGRICULTURE



Presented by  
Nanritam Krishi Kendra



# OUR INSPIRATION



**Revered Swami  
Lokeswaranandaji Maharaj ji.**

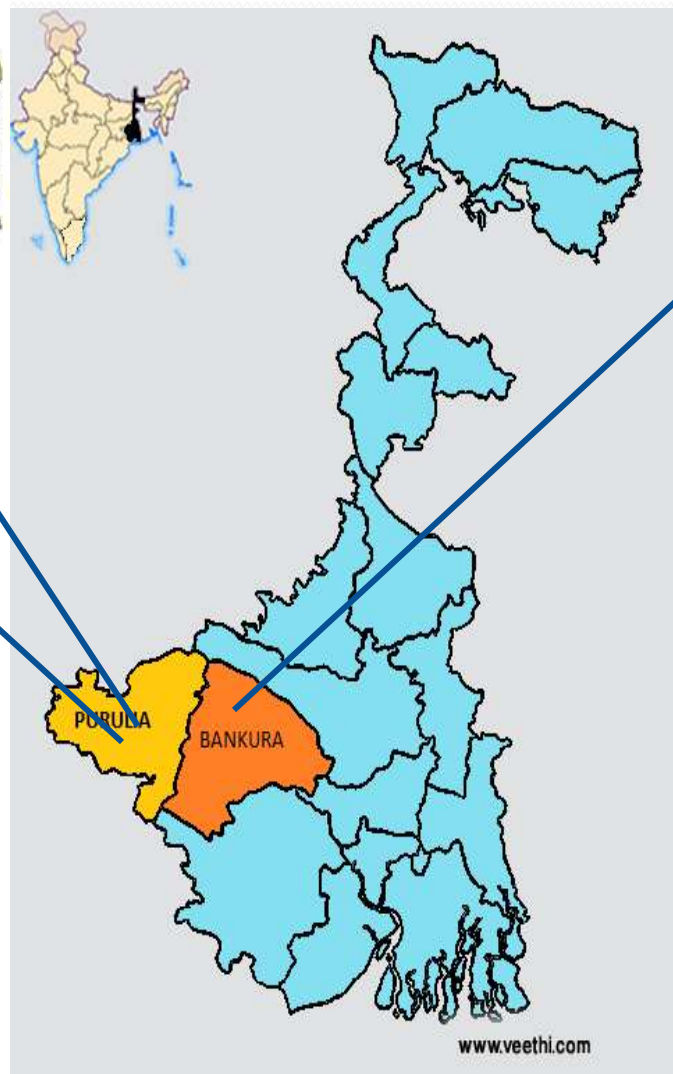


## About Nanritam Krishi kendra

- NANRITAM, a social-welfare organization registered under Society Registration Act, has been working in the Para block of Purulia district since 2004 in the field of Health, education and livelihood generation programme
- NANRITAM KRISHI KENDRA was launched at Barandanga, Para, Purulia in May 2010 with a view to sustainable Agriculture Development in the drought-prone villages of Purulia district.
- The work began in 9 villages of Para block with 70 farmers participating initially.
- At present 1164 farmers are involved in 17 villages of Para block ,7 village of Jaypur block & 1 village of Saltora block up to March 2014.
- Our aim is to include as many farmers as possible in these villages and in other blocks of Purulia district.



## Working area



**Purulia – Para & Jaypur block**

**Bankura – Saltora block**



## **Pre-training condition of selected blocks**

- **Cultivation was predominantly monocrop**
- **About 60 % of the total cultivated land is upland**
- **73 % farmers are small and marginal**
- **Paddy is the primary crop of this area. 50% of the total land is under net-cropped area and only 17% of the net Cropped area is under multi crop cultivation. 77% of the net-cropped area is under Aman paddy cultivation**
- **The crops are grown mostly under rain fed condition**
- **Lack of proper knowledge of technology of crop cultivation**
- **Poor marketing facility with under valuation**

## Projects.....



- Foundation Paddy Seeds Programme supported by Syngenta Foundation India
- Dry land Paddy (Sahabhagi) demonstration Supported by International Rice Research Institute – National Food Security Mission
- Pulses production



# Foundation Seeds Production Programme





## **Area of cultivations .....**

**Block – Para,Jaypur**

**Gram Panchayet – Bhawridi,Dubra,Para,Bahara,JJ1,JJ2,Udaipur,Baragram,Uporkahan**

**Village - 10**

**Total farmers – 208**

Para Block – 139

Jaypur block - 69





## **Four(4) varieties of foundation seeds ...**

- 1. Gotra Bidhan one -1.9 tons**
- 2. Pratikhya – 0.6 tons**
- 3. Lalat – 0.6 tons**
- 4. Super Shayamili - 0.66 tons**

**Total foundation seeds – 3.76 tons**

**\* Foundation Seed supplied by Gontra Samabaya Krishi Unnayan Samity Ltd.**



**Total Project – 250 Acres**

**Total seeds bed preparation – 240 Acres**

**Total transplanting – 132 Acres**

**\* 108 Acres were not transplanting due to lack of rain**

# Before intervention..



- Soil testing was not a practice
- Seed Rate – 12 Kg/Bighas
- Seed treatment was not followed
- Seeds spread in dry seed bed with out germination
- Seedling age – 30 -40 days
- No line sowing
- No skip row
- Seedling transplanted 8 to 9 numbers
- Not properly used fertilizer, pesticide amount
- Most of the farmers do not have spray machine

**Technology supported by Nanritam Krishi Kendra**







কৃষি আলোচনা চক্র  
পরিচালনায়- নানরিতম কৃষি কেন্দ্র  
বরন ডাঙ্গা, পাড়া, পুরুলিয়া  
সহযোগিতায়- সিনজেল্টা ফার্টাইজেশন ইন্ডিয়া



মাটি পরীক্ষার গুরুত্ব  
মাটির স্বাস্থ্য ভালো থাকবে।  
সঠিক মাত্রাই সঠিক সময়ে রাসায়নিক  
সারের ব্যবহার হবে।  
রোগ পোকা কম লাগবে।  
চাষের খরচ কমবে।  
উৎপাদন বৃদ্ধি পাবে।  
পরিবেশ দূষণ কমবে।  
শম্রিতা মৃত্তিকা পরীক্ষাগার  
শম্রিতা কৃষিকেন্দ্র, শম্রিতা মঠ  
নগরহাট, অমরকানন, বাঁকুড়া - ৭২২১৩৩  
ফোন - ৩৩২৪২ - ২৬৪৪৪৭

Soil test followed by all Nanritam farmers









**Seed rate – 5 kg / Bigha**





**Healthy seeds selection training**





**Seed treatment training programme for farmers**









**Germination of paddy seeds under controlled condition**





**Germinated seeds spread in mud seed bed**









**Post seedling supervision programme – 18 – 22 days**





**Training programme for proper line sowing phase -1**





**Training programme for proper line sowing  
phase -2 (skip row technique )**





**Training programme for proper line sowing phase – 3  
(2 to 3 Seedlings transplanted)**





**Training programme phase 4 - Rogging**



## Paddy field inspection



**Dr. Pranab Chatterjee, Proffeser of BCKV & Senior Scientist of Seed Technology**

**Tetulhity, Para**



## Interaction & assessment of training



Tetulhity, Para





## Nanritam Krishi kendra first attempt in systematic Marketing





## Production Data



| Paddy variety    | Land area & yield                | Total production |
|------------------|----------------------------------|------------------|
| Gotra Bidhan – 1 | 201 Bigha X 7.5 Quintal(average) | 150 .75 MT       |
| Lalat            | 18 Bigha X 6 Quintal(average)    | 10 .8 MT         |
| Super shayamali  | 115 Bighas X 6 Quintal(average)  | 69 MT            |
| Pratikha         | 62 Bighas X 6.5 Quintal(average) | 40 .3 MT         |

**Total = 270.85 MT**

# Paddy production yield data



## Gontra Bidhan -1 yield data

| Sl no. | Farmers Name    | Block  | Village     | Total Area(Decimal) | Production(Ton/Hectare ) |
|--------|-----------------|--------|-------------|---------------------|--------------------------|
| 1      | Tarun Mahato    | Para   | Chitra      | 198                 | 5.940 Ton                |
| 2      | Hasulal Mahato  | Para   | Sarbera     | 165                 | 6.735 Ton                |
| 3      | Sanjay Mahato   | Para   | Tetulhity   | 165                 | 5.568 Ton                |
| 4      | Sasidhar Mahato | Para   | Rangametya  | 132                 | 6.558 Ton                |
| 5      | Ananda Mahato   | Para   | Gopinathpur | 165                 | 5.580 Ton                |
| 6      | Samar Mahato    | Para   | Tetulhity   | 66                  | 5.816 Ton                |
| 7      | Milon Mahato    | Para   | Rigudi      | 66                  | 5.692 Ton                |
| 8      | Samar Mahato    | Para   | Kherbari    | 99                  | 5.456 Ton                |
| 9      | Subodh Mahato   | Jaypur | Gunga       | 66                  | 5.936 Ton                |
| 10     | Potol Mahato    | Para   | Ranganitar  | 99                  | 6.226 Ton                |

**Average Yield – 6.250 Ton**





## Pratiksha paddy yield data

| Sl no. | Farmers Name     | Block | Village     | Total Area(Decimal) | Production(Ton/Hectare ) |
|--------|------------------|-------|-------------|---------------------|--------------------------|
| 1      | Asis Mahato      | Para  | Chitra      | 165                 | 5.197 Ton                |
| 2      | Arun Bauri       | Para  | Turradih    | 99                  | 4.980 Ton                |
| 3      | Rampada Garai    | Para  | Horoktor    | 99                  | 5.268 Ton                |
| 4      | Kashinath Mahato | Para  | Pathakdi    | 99                  | 5.158 Ton                |
| 5      | Ananda Mahato    | Para  | Gopinathpur | 165                 | 5.580 Ton                |
| 6      | Ashok Mondal     | Para  | Baisyakuli  | 132                 | 4.996 Ton                |
| 7      | Chitta Mondal    | Para  | Jobra       | 99                  | 5.192 Ton                |
| 8      | Dipak Banerjee   | Para  | Takhurdi    | 363                 | 5.256 Ton                |
| 9      | Dilip Mahato     | Para  | Chitra      | 66                  | 5.036 Ton                |
| 10     | Sapan Mahato     | Para  | Chitra      | 99                  | 5.226 Ton                |

**Average yield 5.188 Tons/Hectare**



## Super Shyamali yield data

| Sl no. | Farmers Name  | Block | Village   | Total Area(Decimal) | Production(Ton/Hectare ) |
|--------|---------------|-------|-----------|---------------------|--------------------------|
| 1      | Pradip Mahato | Para  | Chitra    | 66                  | 5.297 Ton                |
| 2      | Sujit Mahato  | Para  | Tetulhity | 132                 | 5.018 Ton                |
| 3      | Nibas Mahato  | Para  | Khertbari | 66                  | 5.108 Ton                |
| 4      | Amir Maji     | Para  | Turradih  | 66                  | 4.956 Ton                |
| 5      | Indra Mahato  | Para  | Pathakdi  | 66                  | 5.148 Ton                |
| 6      | Istar Ahmed   | Para  | Kankdiha  | 198                 | 4.996 Ton                |
| 7      | Kutubuddin    | Para  | Kankdiha  | 198                 | 5.192 Ton                |
| 8      | Md.Latif      | Para  | Kankdiha  | 198                 | 5.256 Ton                |
| 9      | Alimuddin     | Para  | Kankdiha  | 132                 | 5.036 Ton                |
| 10     | Bablu Mahato  | Para  | Chitra    | 66                  | 5.226 Ton                |

**Average yield – 5.123 Tons**





# **Horticulture trainings – vegetables**

**Block – Para & Jaypur**

**Gram Panchayet -**

**Bhawridi, Dubra, Para, Bahara, JJ1, JJ2, Udaipur, Baragram, Uporkahan**

**Village - 22**

**Total Farmers – 632**

**Total area – 36 Hectares**

## Total Healthy Vegetable Seedlings Supplied to Farmers



- Brinjal – 9100 pieces
- Tomato – 10400 pieces
- Cabbage – 5000
- Cauliflower – 4000
- Chilli – 4500
- Capsicum – 1000
- Broccoli - 500
- Knolkhol – 200



## Vegetables cultivation under Nanritam supervision



| Name of the crops | Cultivated area(Ha) | Number of farmers |
|-------------------|---------------------|-------------------|
| Brinjal           | 11.4                | 170               |
| Tomato            | 10.5                | 141               |
| Cauli flower      | 3.6                 | 110               |
| Cabbage           | 4                   | 125               |
| Chilli            | 2.1                 | 38                |
| Ridge gourd       | 1                   | 16                |
| Bottle gourd      | 1.4                 | 14                |
| Bitter gourd      | 1                   | 13                |
| Cumcumber         | 1                   | 5                 |

# Introduction of Nursery as integral part of farm work



Raherdi, Para



# Cabbage production by trained farmers



Raherdi, Para



# Cabbage production by trained farmers



Pathpur, Para



# Onion production by trained farmers



Pathpur, Para



# Tomato production by trained farmers



Raherdi, Para



# Bitter Gourd production by trained farmers



Pathpur, Para





## Promotion of Wheat and Mustard

| Name of the crops | Cultivated Area(Ha) | No. of farmers |
|-------------------|---------------------|----------------|
| Wheat             | 20.08               | 136            |
| Mustard           | 12.36               | 165            |



## Post Training Wheat line sowing



Rangameta, Para



## Post Training of Mustard farm



Rangametya





## Field Visit, Rangametya, Para



**Dr. Kaushik Basu, Vice-president and Chief Economist of World Bank**



## Field visit by Nanritam team



Rangametya, Para



# Research Project for Dry land(Sahabhagi) Paddy Demonstration

IRRI



International Rice Research Institute – National Food Security Mission



**District – Purulia**  
**Block – Para, Jaypur**  
**Village - Ramkrishnapur, Bhalagora,**  
**Haroktore, Pathpur, Mahadebpur, Tilgora, Jaypur**

**District – Bankura**  
**Block – Saltora**  
**Village - Mahisaradi**

**Total project – 200 Hectares**  
**Total Farmers – 944**  
**Total seed distributed – 10 MT**



# Workshop Dry land Paddy Demonstration



**International Rice Research Institute  
Odisha**



# International Rice Research Institute Survey team



Haroktore, Para



# Awareness Programme for Dry Land Paddy by Agriculture Subdivision Officer & Assistant Director of Agriculture



Pathpur, Para



## Sahabhagi Seed Distribution from Nanritam Krishi Kendra



Tilgora, Para



**Sahabhagi seedling**



**Pathpur, Para**







# Sahabhagi seedling transplantation



Horoktore, Para





**Sahabhagi Paddy**



## Farmers meeting for Market strategy



Haroktore, Para



# Training for Crop cutting



Haroktore, Para



## Sahabhagi Yield data measure



Haroktote, Para





## Sahabhagi Yield Data

| Sl no. | Farmers Name     | Block  | Village   | Total Area(Acre) | Production(Ton/Hectare ) |
|--------|------------------|--------|-----------|------------------|--------------------------|
| 1      | Goutam Mahato    | Para   | Tilgora   | 0.22             | 5.197                    |
| 2      | Sanaram Mahato   | Jaypur | Sindri    | 0.1              | 4.95                     |
| 3      | Sripada Mahato   | Para   | Kanudi    | 0.2              | 5.321                    |
| 4      | Paritosh Rajwar  | Para   | Horoktor  | 0.3              | 5.073                    |
| 5      | Sanjay Mahato    | Para   | Tetulhity | 0.17             | 5.549                    |
| 6      | Dhananjay Mishra | Para   | Tetulhity | 0.66             | 4.826                    |
| 7      | Mantulal Maji    | Para   | Dhagra    | 0.33             | 5.692                    |
| 8      | Subodh Mahato    | Para   | Tilgora   | 0.35             | 5.156                    |
| 9      | Surendra Mahato  | Para   | Pathpur   | 0.5              | 4.936                    |
| 10     | Paban Mahato     | Para   | Pathpur   | 0.66             | 5.568                    |

**Average production - 5.226 Tons**





# Pulses Production





**District – Purulia**

**Block – Para, Jaypur**

**Village – Tilgora, Tetulhiti, Rangameta, Chitra, Pathpur**

**Area – 25 acres**

**Farmers – 62**



## Pre-project planning with Farmers



Tilgora, Para



## Pre-project planning with Farmers



Tetulhiti, Para



## Green gram Seed Distribution from NKK office



Tilgora, Para



# Training programme - Green gram line sowing



Chitra, Para



## Green gram line sowing



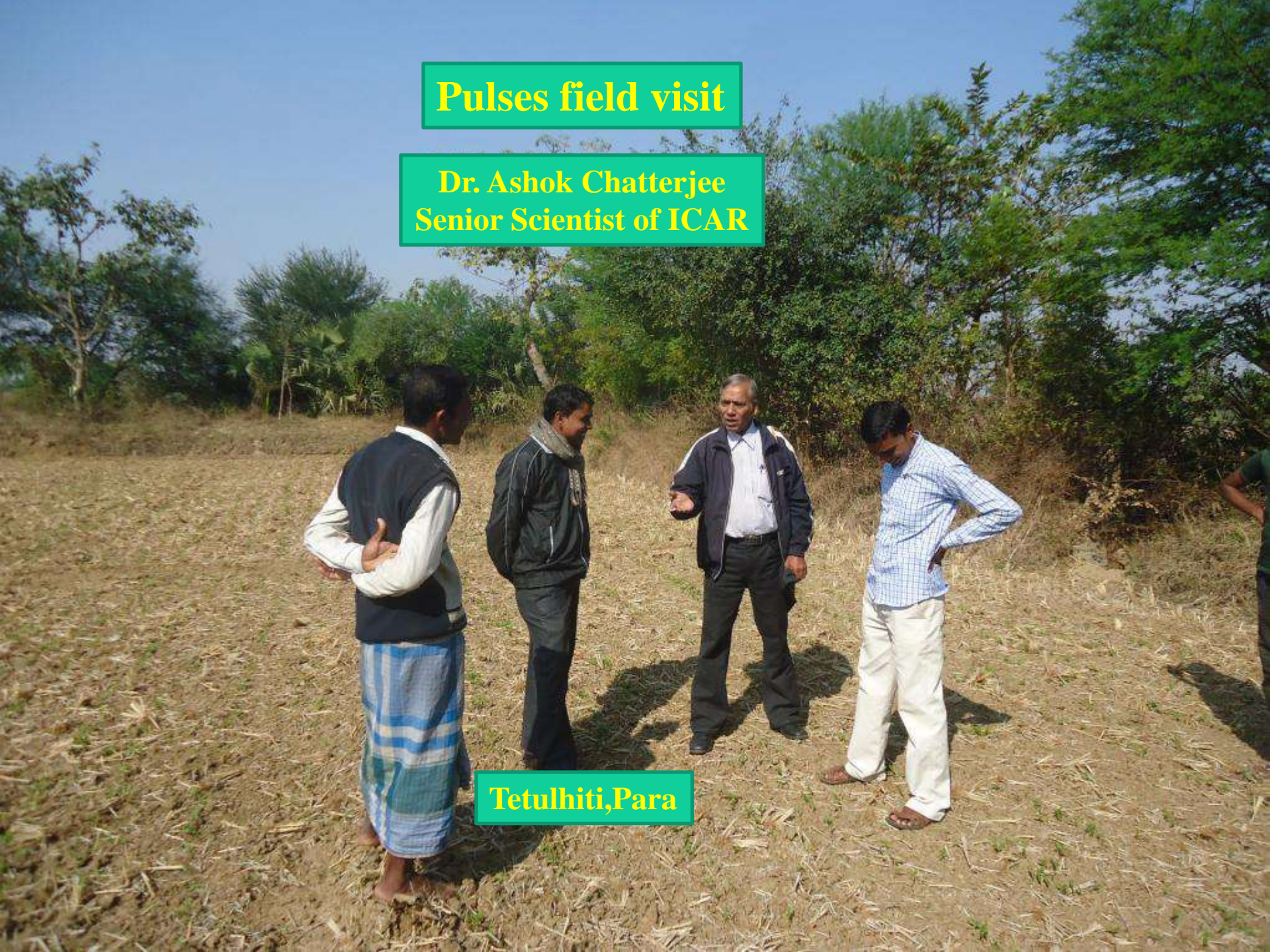
Chitra, Para



## Pulses field visit

**Dr. Ashok Chatterjee**  
Senior Scientist of ICAR

**Tetulhiti, Para**





**Thanks to.....**



- **Syngenta Foundation of India**
- **International Rice Research Institute**
- **National Food Security Mission**





**Thank You**