# CLUSTER FRONTLINE DEMONSTRATION OF KHARIF PULSES (2022) PERFORMANCE DATA

**1. Name of KVK: Ganjam-II** **2. Year of establishment: 2012**

**3. Host Institution: Orissa University of Agriculture & Technology** **4. Address: At/Po. Golanthara/Gobindapur**

**5. District: Ganjam-II** **6. State: Odisha**

**7. Performance of the demonstration:**

**A. Technical Parameters:**

| Sl. No. | Crop demonstrated | Existing (Farmer's) variety name | Existing yield (q/ha) | Yield gap (q/ha) w.r.to | | | Name of Variety + Technology demonstrated | Number of farmers | Area in ha | Yield obtained (q/ha) | | | Yield gap minimized (%) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | District yield (D) | State yield (S) | Potential yield (P) | | | | Max. | Min. | Av. | D | S | P |
| 1 | BLACKGRAM | Local | 3.6 | 4.8 | 5.4 | 10 | Improved seeds (*Shashi*), Seed treatment with (*Trichoderma Viridae*) @ 5gm/kg seed, foliar spraying of N-P-K(19-19-19) @25kg/Ha & spraying of boom flower @ 2ml /lit of water for better flower and growth, Spraying of Neem Oil @2.5ml/lit to prevent the insect & pest, Spraying of broad-spectrum neonicotinoid insecticide Thiamethoxam @ 15gml/lit for control of sucking pests & other insects, Spraying of Profenofos 50% EC@ 2 ml/ lit of water for controlling aphid, whiteflies, milli bug/leaf folder problems & use of pro supper gunny bag for storage of seeds | 25 | 10 | 4.90 | 3.52 | 4.21 | - | - | - |

**Economic parameters**

| Sl. No. | Variety demonstrated & Technology demonstrated | Farmer's Existing plot | | | | Demonstration plot | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Gross Cost (Rs/ha) | Gross Return (Rs/ha) | Net Return (Rs/ha) | B:C Ratio | Gross Cost (Rs/ha) | Gross return (Rs/ha) | Net Return (Rs/ha) | B:C Ratio |
| 1 | Improved seeds (*Shashi*), Seed treatment with (*Trichoderma Viridae*) @ 5gm/kg seed, foliar spraying of N-P-K(19-19-19) @ 25kg/Ha & spraying of boom flower @ 2ml/lit water for better flower and growth, Spraying of Neem Oil @2.5ml/lit to prevent the insect & pest, Spraying of broad-spectrum neonicotinoid insecticide Thiamethoxam @ 15gml/lit for control of sucking pests & other insects, Spraying of Profenofos 50% EC@ 2 ml/lit of water for controlling aphid, whiteflies, milli bug/leaf folder problems & use of pro supper gunny bag for storage of seeds. | 17800 | 29700 | 11900 | 1.66 | 20900 | 43200 | 22300 | 2.06 |

**B. Socio-economic impact parameters**

| Sl. No. | Crop and variety Demonstrated | Total Produce Obtained (kg) | Produce sold (Kg/household) | Selling Rate (Rs/Kg) | Produce used fo own sowing (Kg) | Produce distributed to othe farmers (Kg) | Purpose for which income gained was utilized | Employment Generated (Mandays/household) |
|---|---|---|---|---|---|---|---|---|
| 1 | Blackgram *(Shashi*) | 8900 | 404 | 60 | 1180 | 650 | Farmers utilized the income for their future farm activities | 29 |

**C. Pulse Farmers' perception of the intervention demonstrated**

| Sl. No. | Technologies demonstrated (With name) | Farmers' Perception parameters | | | | | |
|---|---|---|---|---|---|---|---|
| | | Suitability to their farming system | Likings (Preference) | Affordability | Any negative effect | Is Technology acceptable to all in the group/village | Suggestions, for change/improvement, if any |
| 1 | Improved seeds (*Shashi*), Seed treatment with (*Trichoderma Viridae*) @ 5gm/kg seed, foliar spraying of N-P-K(19-19-19) @ 25kg/Ha & spraying of boom flower @ 2ml/lit water for better flower and growth, Spraying of Neem Oil @2.5ml/lit to prevent the insect & pest, Spraying of broad-spectrum neonicotinoid insecticide Thiamethoxam @ 15gml/lit for control of sucking pests & other insects, Spraying of Profenofos 50% EC@ 2 ml/lit of water for controlling aphid, whiteflies, milli bug/leaf folder problems & use of pro supper gunny bag for storage of seeds**.** | Suitable to the existing farming system | *Shashi* was preferred by the farmers & effective control of weeds, diseases & pest | 70% | Weed infestation during initial stage | The HYV & pest control technology were accepted by all the beneficiaries in the group | It is suggested to cultivate this variety in Rabi to obtain its potential yield & timely availability of seed |

**D. Specific Characteristics of Technology and Performance**

| Specific Characteristic | Performance | Performance of Technology vis-a vis Local Check | Farmers Feedback |
|---|---|---|---|
| OBG 33 (Shashi) Resistant to powdery mildew & YMV disease | Seed colour : Green, Seed shape: Round to Cylindrical, 100 seed wt. : 3.91 g. & Plant Height: 50-59 CM | Average 17.05 % increase over local check. | Farmers are interested to cultivate the variety in future due to higher yield than local & resistant to some disease than local. But, due to heavy rainfall crop is partially damaged. |

**E. Extension activities under FLD conducted till dates:**

| Sl. No. | Extension Activities organized | Date and place of activity | Number of farmers attended |
|---|---|---|---|
| 1. | Training | - | 25 |
| 2. | Field Day | - | 25 |

**8. Sequential good quality photographs (as per crop stages i.e., growth & development)**

**BLACKGRAM**

**SEED DISTRIBUTION**


**GROUP DISCUSSION**

**SOWING OF SEED**

**FIELD DAY**

**TIME OF HARVESTING**

**TRAINING**

**9. Farmers' training photographs**

**10. Quality Photographs of field visits/field days and technology demonstrated.**

**11. Details of budget utilization**

| Crop (Provide crop wise information) | Items | Budget Received (Rs.) | Budget Utilization (Rs.) | Balance (Rs.) |
|---|---|---|---|---|
| Blackgram Kharif 2022 | i) Critical input | | 81950.00 | |
| | ii) TA/DA/POL etc. for monitoring | | 3000.00 | |
| | iii) Extension Activities (Field Day) | | 2400.00 | |
| | iv)Flex + Misc | | 1450.00 | |
| | V.) Audit charge | | 1200.00 | |
| | **Total** | **90,000.00** | **90,000.00** | **Nil** |

**12. List of Farmer under CFLD (Crop wise)**

**a) Crop (Blackgram)**

| Farmer's Name | Father's name | Village | Block | Adhar No | GPS Coordinates (DDMMSS format) | | Soil testing done (Yes/No) | Recommendations based on soil test value | Technology | Variety | Seed quantity used (Kg) | Demo. Yield (q/ha) | | | Yield of local check q/ha | % Increase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Longitude | Latitude | | | | | | H | L | A | | |
| K. Jagadish | K.Lingaraj | Siripur | Chikiti | 9556076905 | 19.236105 | 84.497867 | Yes | DAP – 87 kg/ha, Urea- 20 kg/ha MOP – 33.5 k/ha | Seed treatment with (*Trichoderma Viridae*) @ 5gm/kg seed, foliar spraying of N-P-K(19-19-19) @25kg/Ha & spraying of boom flower @ 2ml/lit water for better flower and growth, Spraying of Neem Oil @2.5ml/lt to prevent the insect & pest, | OBG 33 (Shashi) | 10 | 6.8 | 3 | 4.9 | 3.6 | 36.11 |
| K. Kantikeshar | K.Harishchandra | Siripur | Chikiti | 8658078158 | 19.236105 | 84.497867 | Yes | -do- | | OBG 33 (Shashi) | 10 | 6.5 | 3.1 | 4.8 | 3.6 | 33.33 |
| Kakiri Ramesh | K.Jagadish | Siripur | Chikiti | 9438389391 | 19.236105 | 84.497867 | Yes | -do- | | OBG 33 (Shashi) | 10 | 6.9 | 3.9 | 5.4 | 3.6 | 50.00 |
| K.Jaganath | K.Mohindra | Siripur | Chikiti | 7894931138 | 19.236105 | 84.497867 | Yes | -do- | | OBG 33 (Shashi) | 10 | 6.3 | 4 | 5.15 | 3.6 | 43.06 |
| K. Gokula | K.Trinath | Siripur | Chikiti | 7077638489 | 19.236105 | 84.497867 | Yes | -do- | | OBG 33 (Shashi) | 10 | 6.7 | 4 | 5.35 | 3.6 | 48.61 |
| K.Rushia | K.Trinath | Siripur | Chikiti | 8917575890 | 19.236105 | 84.497867 | Yes | -do- | | OBG 33 (Shashi) | 10 | 5.4 | 3.5 | 4.45 | 3.6 | 23.61 |
| K. Shankar | K.Debraj | Siripur | Chikiti | 7077144562 | 19.236105 | 84.497867 | Yes | -do- | | OBG 33 (Shashi) | 10 | 5.2 | 3.5 | 4.35 | 3.6 | 20.83 |
| K. Santoshi | B.Patra | Siripur | Chikiti | | 19.236105 | 84.497867 | Yes | -do- | | OBG 33 (Shashi) | 10 | 5.4 | 3.5 | 4.45 | 3.6 | 23.61 |
| Badya | Badya | Siripur | Chikiti | 7609036258 | 19.236105 | 84.49786 | Yes | -do- | | OBG 33 | 10 | 5.4 | 3.5 | 4.45 | 3.6 | 23.61 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Rashmita | Sanyashi | | | | | 7 | | | Spraying of broad-spectrum neonicotinoid insecticide Thiamethoxam @ 15gml/lit for control of sucking pests & other insects, Spraying of Profenofos 50% EC@ 2 ml/ lit of water for controlling aphid, whiteflies, milli bug/leaf folder problems & use of pro supper gunny bag for storage of seeds. | (Shashi) | | | | | | |
| K.Sangita | K. Ganesh | Siripur | Chikiti | 9438351766 | 19.236105 | 84.497867 | Yes | -do- | | OBG 33 (Shashi) | 10 | 5.4 | 3.5 | 4.45 | 3.6 | 23.61 |
| P.Amar kumar | P.Balamadhab | Siripur | Chikiti | 8984818360 | 19.236105 | 84.497867 | Yes | -do- | | OBG 33 (Shashi) | 10 | 5.3 | 3.5 | 4.4 | 3.6 | 22.22 |
| Indra Pradhan | Punia Pradhan | Kulipentha | Chikiti | | 19.223602 | 84.489271 | Yes | DAP – 108 kg/ha, Urea-12 kg/ha MOP – 33.5 k/ha | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Sharat Patra | Dibakara Patra | Kulipentha | Chikiti | 7008302441 | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Narasingha Pradhan | Sarathi Pradhan | Kulipentha | Chikiti | 9114485545 | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Sarathi Patra | Sibaram Patra | Kulipentha | Chikiti | 8658078158 | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Niranjan Pradhan | Narasingha Pradhan | Kulipentha | Chikiti | 8260651624 | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Hari Pradhan | Patini Pradhan | Kulipentha | Chikiti | 8658078176 | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Sarada Patra | Subash Patra | Kulipentha | Chikiti | 8260432204 | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Ramesh Muli | Bhagata Muli | Kulipentha | Chikiti | 8984146031 | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Sitaram Muli | Bhagata Muli | Kulipentha | Chikiti | 6305221675 | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Saraswati Sethi | Malu Sethi | Kulipentha | Chikiti | 8456945987 | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Kuresh Patra | Tarini Patra | Kulipentha | Chikiti | | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Bhaskar Pradhan | Trinath Pradhan | Kulipentha | Chikiti | 8458030977 | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Mrudubhasini Padhi | Narasingha Padhi | Kulipentha | Chikiti | 7894939483 | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |
| Nilachal Padhi | Narasingha Padhi | Kulipentha | Chikiti | 9114485545 | 19.223602 | 84.489271 | Yes | -do- | | OBG 33 (Shashi) | 10 | 4.1 | 3.5 | 3.8 | 3.6 | 5.56 |

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Signature of the Sr. Scientist & Head