**ALL INDIA COORDINATED RESEARCH PROJECT ON TUBER CROPS**

1. Name : AICRP on Tuber Crops
2. Date of start : ICAR sanction date 30 July 1987

Year of start: 1987-88

1. Name of PI : Over all PI Jagdalpur, Dr. Devshanker Sci. (Hort.)
2. **Staff position (Total & filled):**

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| --- | --- | --- | --- |
| **S. No.** | **Designation** | **No. of post sanctioned** | **Name of Scientist/ staff** |
| 1. | Assistant Horticulturist | 01 | Mr. Deo Shankar |
| 2. | Technical Assistant | 01 | **Vacant** |

**4. Major achievements of AICRP on Tuber Crops, Centre- Jagdalpur**

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| **S. No.** | **Technology developed under project** | **Details** |
| 1. | High yielding Cassava lines developed: | |
|  | (i) IGT-1 | Yield potential 33-40 t/ha, High starch content (39-42%), resistant to Cassava Mosaic Virus (Proposal submitted for release for Chhattisgarh) |
|  | (ii) IGT-4 | Yield potential 32-39 t/ha, Starch content (26-28%), Flesh colour light yellow, recommended for table purpose, resistant to Cassava Mosaic Virus (Proposal submitted for release for Chhattisgarh) |
| 3. | Identified two *Dioscorea alata* (Ratalu)Varieties through IET to MLT | |
|  | (i) Sree Roopa | Yield potential 20-24 t/ha, recommended for table purpose, resistant to leaf spot and anthracnose disease. |
|  | (ii) Sree Roopa | Yield potential 25-30 t/ha, recommended for table purpose, resistant to leaf spot and anthracnose disease. |
| 3. | Technology developed under Integrated nutrient management in Dioscorea alata (Ratalu)  “ Recommended paddy straw @ 1.0 kg/pit + 75 % RDF (60: 45 : 60 kg, N:P:K) ha-1 for high tuber yield” | Increasing yield 7-10 %, Recommended during Zonal meeting at SGCARS, Jagdalpur. |
| 4. | Technology developed under Low input technology for Cassava production “Green manuring (Dhaincha) @ 50 kg / ha-1 + RDF (100:50:100 kg ha-1)” | Tuber yield obtained 25-26 t/ha in variety Megha and Recommended for farmers. |
| 5. | Technology developed under Integrated weed management in Cassava “ Black polythene mulch” | Black polythene mulch had 96.70 % weed control efficiency as compare to control. Recommended for farmers. |
| 6. | Technology developed under “ Use of Cassava leaves for Eri-Silkworm rearing for production of Eri Silk” | Sree Jaya identified best variety give tuber yield (20.25 t/ha) and also given per cocoon weight 2.79 g by 75 % leaf harvest. |
| 7. | Standardize recipe for preparation of Tilhur Barfi and Tikhur Sarbat. | |
| 8. | Started research work first time in the state regarding processing and value addition of Tikhur (*Curcuma angustifolia*) and Kewkand(*Costus speciosus*) and also got a project from Govt. of C. G. entitled “Promotion of processing and food products from tikhur and kewkand in Bastar region of Chhattisgarh” project code is RKVY 2012-13 # 16. | |

**5. Impact:** The table purpose varieties of tuber crops are available in local markets of Chhattisgarh and people of the state taking tubers of Dioscorea alata, Dioscorea bulbifera, Colocasia and Cassava as a vegetable and boiled form**.**

**6. Problems**

1. Lack of processing units of Cassava, Tikhur, Dioscorea sp. Kewkand and other tuber and root crops along with value addition.
2. Lack of Eri-silk worm rearing units through cassava leaves.

**7. Future plan of Research for next 5 years.**

* + To identify high starch yielding varieties of Cassava and establishment of small to medium scale processing units for starch extraction of cassava in different villages.
  + To identify high starch yielding entry of Tikhur collected from different district of Chhattisgarh, develop production technology, popularization of mechanical starch extraction technique between farmers and establishment of Mechanical processing units in different villages with formation of SHGs.
  + Collection and evaluation of tuber and root crops germplasm to identify best variety for the state.
  + Processing of tuber and root crops and standardization of recipes for value added products of Cassava, Tikhur and Kewkand.

**8. List of extendable technologies through KVKs**

* Demonstration of high yielding selected genotypes of *Dioscorea alata* (Sree Roopa, Sree Karthika and IGDa-2) and Cassava (IGT-1 & IGT-4).
* Training to the farmers about processing and value addition of tuber crops like Tikhur (*Curcuma angustifolia*), Kewkand (*Costus speciosus*), Baichandi (*Dioscorea hispida*).