

TECHNICAL PROGRAMME FOR 2012-2013

I. Collection, conservation, cataloguing and evaluation of genetic resources

Exploring the biodiversity availability of tropical tuber crops from the unexplored areas in the different regions for collecting germplasm for unique character genes for quantitative and qualitative traits particularly for high yield, quality and tolerance/resistance to biotic and abiotic stress.

Centres: All participating Centres

II. Testing of genetic resources at various agro climatic environments

II.1. Cassava

II.1.1. IET on Cassava mosaic resistant varieties(2011)

Centres: Dapoli, Yethapur, Thiruvananthapuram & VR Gudem

II.1.2. IET on short duration cassava varieties (2012)

Centres: Thiruvananthapuram, Yethapur, VR Gudem & Dharwad

II.1.3. URT on short duration cassava varieties (2009)(1st yr)

Centres: Imphal

II.1.4. URT on Cassava mosaic resistant varieties(2009)(1st yr)

Centres: Imphal

I. 5. MLT on Cassava (2007)(1st yr)

Centres: VR Gudem, Yethapur, Dapoli & Thiruvananthapuram

I.6. MLT on cassava mosaic resistant varieties (2007)(1st yr)

Centres: Yethapur

II.2. Sweet potato

II.2.1. Improvement through polycross method of breeding for making site specific selections of sweet potato

Centres: Raipur, Bhubaneswar, Dholi, Kalyani

II.2.2. IET on sweet potato for weevil resistance(2012)

Centres: Bhubaneswar, Thiruvananthapuram, Kalyani, Dholi, Rajendra Nagar

II. 2.3. IET on sweet potato (2012)

Centres: Kalyani, Barapani & Dharwad

II.2.4. URT on orange fleshed sweet potato(2009)(1st yr)

Centres: Dharwad, Navasari, Udaipur, Barapani

II. 2.5. URT on Sweet potato

Centres : Port Blair

II.2.6. MLT on sweet potato (2007)(1st yr)

Centres: Dholi, Udaipur, Imphal, Port Blair

II.2.7. MLT on orange fleshed sweet potato(1st yr)

Centres: Imphal, Faizabad

II.2.8. MLT on sweet potato (2nd yr)

Centres: Navasari

II. 2.9. MLT on orange fleshed sweet potato(2nd yr)

Centres: Jorhat

II.3. Yams

II.3.1. IET on greater yam(2nd yr)

Centres: Imphal, Jorhat

II. 3.2. IET on greater yam (2012) (Minimum 7 months)

Centre: Trivandrum, Bhubaneswar, Jagdalpur, Kovvur & Udaipur

II.3.3. URT on greater yam(1st yr)

Centres: Navasari,,Jagdalpur

II.3.4. URT on greater yam(2nd yr)

Centres: Jorhat

Centres: Jorhat,Ranchi,Thiruvananthapuram

II. 4.Colocasia

II. 4.1. IET on Colocasia (2012)

Centres:Kalyani, Barapani, Dholi, Ranchi, Coimbatore & Port Blair

II.4.2.URT on Colocasia (Bunda)

Centres: Raipur,Kalyani

II. 4.3. MLT on Colocasia (Taro)

Centres: Jorhat, Raipur,Dholi,Barapani

II.4.4.MLT on Colocasia (2nd yr)

Centres: Rajendranagar

II. 4.5. MLT on Tannia

Centres: Rajendra Nagar

II.5.Elephant foot yam

II.5.1. IET on *Amorphophallus* (Planting may be done during Feb-March 2013)

Centres:Navasari, Trivandrum & Udaipur

II. 5.2.URT on Elephant foot yam (2nd yr)

Centres: Kovvur , Ranchi

II. 5.3. MLT on Elephant foot yam (1st yr)

Centres: Coimbatore, Raipur

II. 5.4. MLT on elephant foot yam(2nd yr)

Centres: Kalyani

II. 6.Yam bean

II. 6.1. Improvement programme on yam bean through breeding

Centres: Bhubaneswar,Dholi,Kalyani

II. 6.2. MLT on Yam bean

Centres: Kalayani, Ranchi & Raipur will have to study the uniformity & stability

II.7. Collection and conservation of minor tuber crops available in the respective location of the centres

Centres: All centres

III. Agrotechniques

III.1.Cassava

III.1.1.Use of Cassava leaves for eri silk worm rearing for production of eri silk/Ahimsa silk

Centres: Jorhat

III. 1.2.Standardization of fertigation through micro irrigation for cassava

Centre: Yethapur

III. 1. 3. Low input technology for cassava production

Centres: VR Gudem, Yethapur, Jorhat, Jagadalpur

III.1.4.Integrated weed management in cassava

Centres: Yethapur, VR Gudem, Bhubaneswar, Jagadalpur

III. 2. Elephant foot yam

III. 2.1. Effect of INM on yield and quality/acridity of elephant foot yam

Centres: Jorhat

III.3. Cropping systems involving tuber crops

III.3.1. Intercropping tuber crops in sapota/amlamango orchards

Centres: Dharwad, Rajendranagar

III. 3.2. Intercropping spice crops in elephant foot yam

Centres: Faizabad, Kovvur, Bhubaneswar, Dholi, Kalyani

III. 3.3. Identification of suitable intercrops in taro/arvi

Centres: Raipur, Imphal, Udaipur

III.4. Phenology of tuber crops in relation to climate change

III.4.1. Cassava

Centres: Thiruvananthapuram, Yethapur, Navasari, Port Blair, Imphal, Dapoli, VR Gudem

Varieties: 2 (H-226, Sree Rekha)

III.4.2. Sweet Potato

Centres: Dholi, Ranchi, Baghalkot, Hyderabad, Kalyani, Faizabad, Raipur, Udaipur, Bhubaneswar

Varieties: 2 (Sree Bhadra & local)

III.4.3. Elephant foot yam

Centres: Thiruvananthapuram, Dholi, Ranchi, Navasari, Baghalkot, Kovvur, Coimbatore, Kalyani, Faizabad, Bhubaneswar

Varieties: 2 (Gajendra, local)

III. 4.4. Taro

Centres: Thiruvananthapuram, Coimbatore, Rajendranagar, Kalyani, Faizabad, Port Blair, Barapani, Imphal, Jorhat

Varieties: 2 (Mukthakeshi & local)

III.4.5. Greater yam

Centres: Thiruvananthapuram, Jagdalpur, Jorhat, Kovvur

Varieties: 2 (Sree Keerthi & local)

III.5. Site specific nutrient management studies

III.5.1. Cassava

Centres: Yethapur & VR Gudem

Variety : Sree vijaya

III.5.2. Elephant foot yam

Centres: Coimbatore, Dholi, Kovvur, Kalayani & Navasari

Variety: Gajendra

III.6. Farming system studies in NE region and tribal areas

Centres: Ranchi, Odisha, Chattisgarh, Jorhat, Barapani, Imphal

IV. Pests and disease management

IV. 1. Evaluation of cassava lines for mosaic tolerance/ resistance

Centres : Yethapur, Jagdalpur, Rajendranagar

IV.2. Management of sweet potato weevil through intercrops

Centres: Dholi, Rajendranagar, Kalayani

IV.3. Evaluation of Colocasia entries for Phytophthora leaf blight resistance/tolerance.

Centres : Kalyani, Dholi, Dapoli, Rajendranagar

Entries : BCC-2, BCC-5, BCC-9, BCC-25

IV.4. Management of yam bean pod borer

Centre : Dholi, Dapoli, Kalyani

IV. 5. Screening of Yam bean entries against yam bean seed borer

Centre: Dholi

IV.6. Evaluation of tuber crops based biopesticides against pests of national importance

Centre : Dapoli, Dholi, Kalyani, Rajendranagar

IV.7. Survey and surveillance of pests and diseases of root and tuber crops

Centres: All Centres

Technical programme : Roving survey

Fixed plot survey

V. Planting material production

Centres : All Centres

VI. Research extension interface

Centres : All Centres

VI.1. Popularization and Demonstration of tuber crops in Urban & Peri- urban and non-traditional areas for food and feed .

VI.2. Value addition and Women empowerment- Demonstrations

VI.3. Documentation of status of tuber crops in India