

ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY



**A Report on
Collaborative TSP Programme
2019-20
KVK-ANGRAU- ICAR-NBAIR, Bangaluru**



**Krishi Vigyan Kendra, Kondempudi
Visakhapatnam Dt, Andhra Pradesh**

ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY



P JAMUNA



M. NAGESH



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Krishi Vigyan Kendra, Kondempudi

Report on ANGRAU- ICAR-NBAIR, Bangaluru Collaborative TSP Programme for the year 2019-20

Institutions involved: 1. ICAR-NBAIR, Bangaluru, Karnataka

2. ANGRAU, KVK, Kondempudi, Visakhapatnam Dt, Andhra Pradesh

As per the reference F.NBAIR/TSP/2019-20/11398, Dated:06.02.2020 of the Director, ICAR-NBAIR, Bangaluru and F.No. ICAR-NBAIR/MN/2019-20/11398, Dated:10.02.2020 of the Principal Scientist & Head, Division of Genomic Resources, ICAR-NBAIR, Bangaluru, allotted 8.0 Lakhs to KVK, Kondempudi under ANGRAU- ICAR-NBAIR, Bangaluru Collaborative TSP programme for the year 2019-20. The budget details are

| S. No. | Particulars | No. of tribal farmers/ beneficiaries to be covered | Unit cost @ Rs. | Quantity required | Cost/ farmer | Total cost @ Rs. |
|--------------|---|--|---|---------------------|--------------|--------------------|
| 1. | Capacity building program on organic farming using healthy planting material, biofertilizers, Bioagents | 200 | 300.0 (Tea, Lunch, travel, material, etc.) | 2 cluster trainings | 300 | 60,000.00 |
| 2. | Input supply | | | | | |
| 2a. | Biofertilizers | | | | | |
| | a. Azatobacter @5kg/ha | 200 | 40/kg | 0.5kg=200 | 20 | 40000.00 |
| | b. PSB @ 5Kg/ha | 200 | 40/kg | 0.5kg=200 | 20 | 40000.00 |
| | c. Potashsol biofertilizer | 200 | 300/kg | 0.25=100 | 75 | 15000.00 |
| | d. Zincsol biofertilizer | 200 | 300/kg | 0.25=100 | 75 | 15000.00 |
| | e. PGPR | 200 | 200/kg | 0.50=200 | 100 | 20000.00 |
| 2b. | Biocontrol agents | | | | | |
| | a. T. viride @ 5kg/ha | 200 | 100/kg | 0.5kg | 50 | 10000.00 |
| | b. Pseudomonas fluorescens @ 2.5 Kg/ ha | 200 | 100/kg | 0.5kg | 50 | 10000.00 |
| 2c. | Planting material | | | | | |
| | a. Tomato @12500 seedlings/ha | 50 | Rs.1/seedling | 1000/ farmer | 1000 | 50000.00 |
| | b. Turmeric @900kg/ha | 50 | 30/kg | 40kg/ farmer | 1200 | 60000.00 |
| | c. Ginger @ 900kg/ha | 50 | 70/kg | 40kg/ farmer | 2100 | 105000.00 |
| | d. Moringa @2125 sapling/ha | 200 | 15/sapling | 20saplings /farmer | 300 | 60000.00 |
| 3. | POL charges | | | | | 20000.00 |
| 4. | Miscellaneous | | | | | 10000.00 |
| 5. | Publications | | | | | 75,000.00 |
| 6. | Inputs | | | | | 2,10,000.00 |
| TOTAL | | | | | | 8,00,000.00 |

I. Capacity building program on organic farming using healthy planting material, biofertilizers, Bioagents:

This Capacity building program is conducted at PMRC Building, ITDA, Paderu, Visakhapatnam Dt on 11.03.2020. There are 200 No. of farmers from Paderu, Dumbriguda, Araku, Pedabayalu and Anantagiri mandals are attended this programme.

Officers Attended this Programme:

| S. No | Name | Designation | Place |
|--------------|----------------------|--|-----------------------|
| 1 | Dr. M. Nagesh | Principal Scientist & Head Division of Genomics Resources | ICAR-NBAIR, Bengaluru |
| 2 | Dr. P. Jamuna | Associate Director of Research | RARS, Anakapalle |
| 3 | Sri. P. Demullu | Hon'ble Member, Board of Management, ANGRAU | Paderu |
| 4 | Dr. E. Chandrayudu | Programme Coordinator | KVK, Kondempudi |
| 5 | Dr. N. Raja Kumar | SMS (Plant Protection) | KVK, Kondempudi |
| 6 | Dr. V. Gouri | SMS (Crop Production) | KVK, Kondempudi |
| 7 | Dr. N. Satti Babu | SMS (Horticulture) | KVK, Kondempudi |
| 8 | Dr. D. U.M. Rao | SMS (Plant Extension) | KVK, Kondempudi |
| 9 | Dr. G. Manasa | SMS (Home Science) | KVK, Kondempudi |
| 10 | Dr. Y. Latha | Chief Technical Officer Division of Genomics Resources | ICAR-NBAIR, Bengaluru |
| 11 | Smt. P. Ammaji | Director, Sanjeevini NGO | Paderu |
| 12 | Sri. S. Suri Babu | FPOCC | Dumbriguda |
| 13 | Sri. K. Guru Krishna | AES | Paderu |

Dr. P. Jamuna, ADR, RARS, Anakapalle chaired this capacity building programme and conducted the proceedings very smoothly. ADR, RARS, Anakapalle briefed about the Visakhapatnam districts cropping scenario particularly about the tribal mandals. Then Dr. E. Chandrayudu, Programme Coordinator, KVK, Kondempudi explained about the activities of KVK, Kondempudi in tribal mandals of Visakhapatnam district.

Dr. M. Nagesh, Principal Scientist & Head, Division of Genomics Resources, ICAR-NBAIR, Bengaluru, elaborated the importance of organic farming in the present agricultural situation in his speech. He also shared the involvement of ICAR- NBAIR, Bangalore in promotion of Organic farming through identification and mass multiplication of beneficial insects in pest control. Also briefed about the ANGRAU- ICAR-NBAIR, Bengaluru Collaborative TSP programme for the year 2019-20.

Then Sri P. Demullu, Hon'ble member, BOM, ANGRAU also stressed the importance of Organic farming in the tribal mandals of Visakhapatnam district. He also spoke on the marketing facilities for the organically produced commodities in tribal areas.

The Scientists of KVK, Kondempudi conducted demonstrations and explained to the farmers on use of different bio fertilizers and bio agents like Azatobacter, PSB, PGPR, Potash sol biofertilizer, Zincsol biofertilizer, *Trichoderma Viride*, *Pseudomonas fluorescense* and rhizobium. Then the SMS (Horticulture) explained the raising of seedlings through portrays, production technologies of Ginger, Turmeric and Vegetable crops.

Dr. Y. Latha, Chief technical Officer, ICAR-NBAIR, Bengaluru, demonstrated the mass production *Trichogramma* Spp, Encarsia, Crysoperla, Rdevujid bugs etc and preparation of trichocards, bioagents like Beauveria, Metarrhizium in laboratory conditions. She also explained about the use of these bio agents in field conditions.

Then the delegates released the publication of multi colour booklets in telugu language made by the KVK, Scientists under the ANGRAU- ICAR-NBAIR, Bengaluru Collaborative TSP programme for the year 2019-20.

| S.No | Name of the Publication | No. of copies |
|-------------|--|----------------------|
| 1 | Allam Pasupu pantala saagu loo mealaina yajamanya paddatulu | 500 |
| 2 | Girijana prantaalaloo saagu cgeese kuragaaya pantalaloo samagra sasya rakshana | 500 |
| 3 | Girijana prantaalaloo nune ginjala saagu- mealaina yaajamanya paddatulu | 500 |
| 4 | Chiru dhanyaalatoo iluva aadhaarita vutpattulu | 500 |
| 5 | Oushada Mokkalu mariu Upayogalu | 500 |

II. Inputs distributed:

Input Kits were distributed to 200 organic farming tribal farmers by the KVK, Konddempudi-ANGRAU- ICAR-NBAIR, Bangaluru. Each kit consists of

| S. No. | Particulars | Quantity/ Farmer |
|--------------------------|-------------------------|------------------|
| Biofertilizers | | |
| 1 | Azotobacter | 0.5kg |
| 2 | PSB | 0.5kg |
| 3 | Potashsol biofertilizer | 0.25 |
| 4 | Zincsol biofertilizer | 1.0 Kg |
| 5 | PGPR | 1.0 Kg |
| Biocontrol agents | | |
| 6 | T. viride | 1.0 kg |
| 7 | Pseudomonas fluorescens | 1.0 Lt |
| Planting material | | |
| 8 | Tomato | 1000 Seedlings |
| 9 | Turmeric | 40 kg |
| 10 | Ginger | 40 kg |
| 11 | Moringa | 20 saplings |
| Publications | | 5 |



TSP training cum input distribution program at Paderu, Visakhapatnam, A P. Inaugural address by Dr P. Jamuna, Associate Director of Research , RARS, Anakapalle (10.3.2020)



Address by Dr M Nagesh, Head, Division of Genomics Resources ICAR-NBAIR, Bengaluru to the TSP beneficiaries at TSP training cum input distribution program at Paderu, Visakhapatnam, A. P. (10 March 2020)



Dr. Chandrayudu, Coordinator, ANGRAU-KVK, Kondempudi explaining the biological control and natural farming



Dr. Lalitha, SCTO, ICAR-NBAIR explaining biological control using natural enemies and displaying the live specimens



TSP beneficiaries at TSP training cum input distribution program at Paderu, Visakhapatnam, A. P. (10 March 2020)



Display and distribution of five multicolored publications in Telugu on POPs and Value addition on various crops relevant to tribal beneficiaries of the region at Paderu, under TSP program. (Sri. P. Demulu, Coucillor and Hon'ble Member, Board of Management, ANGRAU; Dr. Jamuna, ADR, ANGRAU; Dr. Chandrayudu, Coordinator; Dr. M. Nagesh, HOD. ICAR-NBAIR; Dr. Y Lalitha, SCTO, ICAR-NBAIR, KVK subject matter specialists and Smt. Annaji, Director, Sanjeevini NGO)



Display of input samples and distribution of inputs to TSP beneficiaries in Paderu, (Sri. P. Demulu, Coucillor and Hon'ble Member, Board of Management, ANGRAU; Dr. Jamuna, ADR, ANGRAU; Dr. Chandrayudu, Coordinator; Dr. M. Nagesh, HOD. ICAR-NBAIR; Dr. Y Lalitha, SCTO, ICAR-NBAIR, KVK subject matter specialists and Smt. Annaji, Director, Sanjeevini NGO)



Inputs and literature distribution to the beneficiaries



Inspection of inputs, planting material and inventory by the team before distribution under TSP to the beneficiaries