**Notable achievements of Agricultural Research Station, Podalakur**

| S. No | Description | | |
|---|---|---|---|
| **1** | **Name of the Research Station** | **:** | Agricultural Research Station, Podalakur |
| **2** | **Year of Establishment** | **:** | **1964** |
| **3** | **Mandate crops** | **:** | Development of high yielding insect pest & disease tolerant varieties in pulses, Jowar and evolving climate resilient suitable agro-Techniques. |
| **4** | **Notable Achievements** | **:** | |
| | | **a.** | Developed one variety in jowar(PJ 890) and two varieties in blackgram (PBG -1 & PBG 107) |
| | | **b.** | Beside release of PJ 890 also identified the varieties viz. D-340, 168 and hybrids viz., CSH-6, and CSH-9 were suitable for the tract. |
| | | **c** | In Blackgram apart from PBG -1 & PBG 107 varieties like Krishnaiah(LBG17), Teja(LBG20), Prabhava (LBG402), LBG17, LBG611, LBG623, LBG709, LBG648, LBG752, TBG 104,LGB788 and LBG685, were identified as suitable to southern zone. |
| | | **d.** | In Greengram, the varieties viz.,ML267, LGG407,LGG460, TM96-2 and LGG450 were identified as suitable varieties for Rabi and were recommended for cultivation in southernzone. For summer and kharif LGG407, LGG410 and LGG460 were identified as most suitable. |
| | | **e.** | In Redgram the varieties viz., Palnadu (LRG.30), ICPL.85063, Abhaya (ICPL.332), MRG.66, LRG 41, LRG 52,TRG 59,LRG105 and TRG 22 were identified as suitable for cultivation in southern zone. The varieties Palnadu was found to be highly suitable for both *Kharif*and *Rabi* seasons whereas other were found to be suitable for *rabi* Cultivation. |
| | | **f.** | In Soybean varieties like MACS-210 & Hardee were identified as suitable and recommended for cultivation in Southern zone. |
| | | **g.** | In Sesamum varieties like Gowri, Madhavi, Rajeswari, YLM66 and YLM17 were identified as suitable and recommended for cultivation in Southern zone. |
| | | **i.** | In Mustard varieties like Kranthi, Bhavani and PT303, Safflower (Manjeera), Cowpea (C.152) and coriander (CS.6) were identified as suitable and recommended for cultivation in the zone |
| | | **j.** | In Safflower (Manjeera), Cowpea (C.152) and coriander (CS.6) were identified as suitable and recommended for cultivation in Southern zone |
| | | **k.** | Under the development of suitable cropping system in rainfed conditions, among all the crops studied Greengram and Blackgram were found to be more remunerative crops during Rabi Season. |
| | | **l.** | Application of Butachlor @1kg a.i/ha as pre-emergence herbicide was found effective in pulses to control weeds. |
| | | **m.** | In evolution of double cropping system under rainfed conditions greengram in *kharif* followed by sunflower in *rabi*was found remunerative. |

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|---|---|---|---|
| | | **n.** | Spraying of *Mancozeb* @ 0.3% was found effective against for the control of *corynaspora* leaf spot in blackgram. |
| | | **o.** | Spraying of *propiconazole* 0.01% and *carbendazim* 0.05% effectively controlled powdery mildew in blackgram. |
| | | **p.** | Jowar inter cropped with greengram in 2: 2 ratio resulted maximum yields. |
| | | **q.** | Optimum date of sowing for blackgram was found 2$^{nd}$ FN of October in Nellore District. |
| | | **r.** | Bengalgram and coriander sown during the 1$^{st}$ FN of November gave highest yields. |

| **ANGRAU Technologies** | | | |
|---|---|---|---|
| | **Category of Technology** | **:** | |
| **i.** | **Name of the technology** | **:** | |
| **ii.** | **Description of Technology** | **:** | |
| **iii.** | **Application/Use** | **:** | |
| **iv** | **Unit cost of operation** | **:** | |
| **v** | **Status of commercialization** | | **Yes/No; If Yes** |
| | **Addresses of Licensees or Manufacturer** | | |
| **vi** | **Contact address for further details** | | |

**Podalakur Jonna (PJ 890)**

| S.No | Particulars | Information |
|---|---|---|
| 1 | **Crop** | Jowar |
| 2 | **Variety** | PJ-890 (Podalakur Jonna) |
| 3 | **Parentage** | Selection from SPV346 |
| 4 | **Breeding method** | Selection |
| 5 | **Year of Release** | 1993 |
| 6 | **Release throughCVRC/SVRC** | SVRC |
| 7 | **Crop duration** | 105-110 days |
| 8 | **Season** | Rabi |
| 9 | **Potential yield** | 23 q/ha |
| 10 | **Area suitability** | Late sown rabi areas of Nellore district |
| 11 | **Salient features** | A drought tolerant,dual purpose, high yielding, tan grain type , suitable for *rabi*, |

**Podalakur minumu (PBG-1)**

| S.No | Particulars | Information |
|---|---|---|
| 1 | **Crop** | Blackgram |
| 2 | **Variety** | Podalakur minumu (PBG-1) |
| 3 | **Parentage** | Selection from pottempadu local |
| 4 | **Breeding method** | Pedigree method |
| 5 | **Year of Release** | 2002 |
| 6 | **Release throughCVRC/SVRC** | SVRC |
| 7 | **Crop duration** | 80-85 days |
| 8 | **Season** | Kharif, Rabi and Summer |
| 9 | **Potential yield** | 20-25q/ha. |
| 10 | **Area suitability** | Nellore district |
| 11 | **Salient features** | It is a photo-insensitive, high yielding, dull grain type. |

**Penusila (PBG-107)**

| S.No | Particulars | Information |
|---|---|---|
| 1 | **Crop** | Blackgram |
| 2 | **Variety** | Penusila (PBG-107) |
| 3 | **Parentage** | COBG10 x Butta Minumu |
| 4 | **Breeding method** | Pedigree methode |
| 5 | **Year of Release** | 2002 |
| 6 | **Release throughCVRC/SVRC** | SVRC |
| 7 | **Crop duration** | 85-90 days |
| 8 | **Season** | Rabi |
| 9 | **Potential yield** | 20-25 q/ha. |
| 10 | **Area suitability** | Nellore district |
| 11 | **Salient features** | Photosensitive, high yielding dull grain variety |