

SALIENT ACHIEVEMENTS OF AGRICULTURAL RESEARCH STATION, **AMARAVATHI**

Producing and supplying Powder and Liquid formulations of biofertilizers farmers of Andhra Pradesh, State Department of Agriculture & Horticulture and other institutes. Since from 2013-14 and till now, over 1000 Metric Tonnes of biofertilizers were produced at ARS, Amaravathi.

Liquid biofertilizer formulations biofertilizers were developed, which keeps more population and having 18 months of shelf life compared to 6 months of shelf life of powder biofertilizers formulation.

Developed, produced and distributing Potash releasing bacterial(KRB) biofertilizer to the farming community since from 2014-15. It enhances the availability of potash to plants.

Developed decomposing cultures A (consortium of fungi) and B (consortium of bacteria) for fast decomposing of agricultural wastes.

Several strains of Rhizobium for blackgram, bengalgram, and redgram were isolated, screened and maintained for biofertilizer production. Blackgram isolates were submitted to Directorate of Groundnut Research, Jonnagarh.

The ecological distribution of AM fungal species and glomalin enrichment by AM fungi in various crops was monitored. Also, since from 2010-11 VAM biofertilizer was produced and supplied to farmers of Andhra Pradesh, State Department of Agriculture & Horticulture and other institutes, which provides multiple benefits to the plants.

Isolated pink pigmented facultative methylotrophs (PPFM) and designed a special AMS medium for their multiplication. Application of PPFMs enhanced chlorophyll and proline content, and panicle emergence was advanced by 8-10 days due to application of PPFM.

ARS, Amaravathi has trained the Officers of the Department of Agriculture, Andhra Pradesh on Production Technology of Biofertilizers and providing technical assistance to the biofertilizers units of the State Department of Agriculture.

ARS, Amaravathi is maintaining pure cultures of different biofertilizers microorganisms and providing these cultures to different biofertilizers production centers on cost basis.

Established new powder and liquid biofertilizers units which enhanced the production capacity of biofertilizers.

ARS, Amaravathi is also involved in production of various classes of pulses seeds and supplying it to the farmers.

