

**AGRICULTURE RESEARCH INSTITUTE, MAINFARM, RAJENDRANAGAR,
HYDERABAD**

Name of the Research Station : Agricultural Research Institute
Main Farm, Rajendranagar
Year of Establishment : 1933

Mandate of Research Institute

- 1 Validation of Integrated Farming System models under irrigated black cotton soil on One-acre area.
- 2 Farm mechanization in soyabean-chick pea cropping system
- 3 Farm manure in redgram in Kharif.
- 4 Maintenance of lawns and beautification of University Campus
- 5 Maintenance of lawns and beautification of Kidwai Cottage and office premises.
- 6 Foundation seed production of paddy, redgram, castor and bengalgram.
- 7 Maintenance of fruit gardens mango, sapota and sithaphal
- 8 Maintenance and sale of Nursery plants like karanda, sithaphal, curryleaf etc.

Schemes operating:

- 1 Validation of integrated farming systems on irrigated black cotton soil on one-acre.
- 2 Farm mechanization in soyabean-bengalgram cropping system in black cotton soil .
- 3 Farm mechanization in redgram during Kharif in sans loam soil.

Significant Achievements:

- 1 In late sown rice (BPT 5204) foliar application of GA 3 @ 135g per hectare recorded higher yield of 4340kg/ha
- 2 Application of poultry manure 40kg per 800 m² area increased seedling establishment in winter paddy nursery.
- 3 Application of 90kg N/ha and 5kg/ha *Azotobacter* recorded the highest wheat yield of 4120 kg/ha.
- 4 Soil application of borax @ 10kg/ha along with recommended NPK 20kg N, 80kg P, and 40kg K/ha resulted in significantly higher seed yield of 250kg/ha