

## **Mandate and Mission of Research**

The University of Agricultural Sciences (UAS), Raichur established in view to cater the needs of farming community in Kalyana – Karnataka. The Jurisdiction of the University covers 22% of the total geographical (19.9 m. ha), 31 % of total cultivated and 20% of the irrigated area of Karnataka state. It spreads over six districts of North Eastern Karnataka (Bidar, Kalaburagi, Yadgir, Raichur, Koppal and Ballari). A number of agricultural, horticultural and forestry species represent the rich biodiversity of the area. There are three major irrigation projects viz., the Tungabhadra, the Upper Krishna Project and the Karanja in the region which provide irrigation to about 12 lakh ha accounting for 18 per cent of the total cultivated area of the state. The research activities of the university focus on conducting and disseminate research on basic, strategic, applied and problem oriented. During last ten years there were total 591 research projects funded by University, NAIP, ICAR, DST, DBT, CSIR, CIMMYT, Ministry of Agriculture GOI, Govt. of Karnataka *etc* with total worth of Rs. 14155.63 lakhs. The total 56 projects worth of Rs. 65.895 Crores was sanctioned under RKVY during last ten years.

The climate of the region is subtropical endowed with variety of climate, soil and crops. It is located at 16<sup>0</sup>6'N and 77<sup>0</sup>6'E with an altitude of 398.9 m above mean sea level. The university covers three agro climatic zones of Karnataka North – Eastern dry zone, North Eastern Transitional zone and Northern dry zone. The research needs of the region are catered through 13 research stations, 17 All India coordinated projects and one volunteer centres besides other national and international projects. Directorate of Research also made MoU with Karnataka State Biofuel Board and established Bio-fuel Park at Thinthini, Yadgir district.

Directorate of research has involved into MoU's with several National and International institutes including ICRISAT, IRRI, ICAR, CIMMYT, IICPT, Barwale foundation, CRIDA Hyderabad. University has also MoU with International Universities for collaborating research activities. After inception of UAS, Raichur has released 28 varieties of pigeonpea, paddy, sunflower, groundnut, greengram etc. The technologies developed by university viz., transplanted pigeonpea, e-SAP, Integrated Farming System, Precision Farming, Direct Seeded Rice, Value Addition and Food Processing, Farming Machinery, Mechanized Transplanting of paddy etc. have spread to large area within ten years.

## General information of UASR Research stations

| Sl. No.      | Research Stations          | District   | Year of Establishment | Total Area (acres) | Cultivated Area (acres) |
|--------------|----------------------------|------------|-----------------------|--------------------|-------------------------|
| 1            | MARS, Raichur              | Raichur    | 1932                  | 602.5              | 440.3                   |
| 2            | ARS, Bidar                 | Bidar      | 1963                  | 68.1               | 53.6                    |
| 3            | ARS, Kalaburagi            | Kalaburagi | 1974                  | 134.9              | 72.5                    |
| 4            | ARS, B'gudi                | Yadgir     | 1981                  | 390.75             | 250.0                   |
| 5            | ARS, Raddewadgi            | Kalaburagi | 2005                  | 52.5               | 42.2                    |
| 6            | ARS, Kawadimatti           | Yadgir     | 1986                  | 154.5              | 122.0                   |
| 7            | ARS, Malnoor               | Yadgir     | 1991                  | 361.1              | 240.5                   |
| 8            | ARS, Dhadesugur            | Raichur    | 2010                  | 191.72             | 131.0                   |
| 9            | ARS, Siruguppa             | Bellary    | 1937                  | 192.3              | 148.5                   |
| 10           | ARS, Gangavati             | Koppal     | 1956                  | 287.0              | 243.8                   |
| 11           | ARS, Hagari                | Bellary    | 1906                  | 302.8              | 154.6                   |
| 12           | ARS, Chittapur             | Kalaburagi | 2012                  | 56.3               | 50.0                    |
| 13           | ARS, Guladhalli            | Koppal     | 2017                  | 34.35              | 34.35                   |
| 14           | Biofuel park,<br>Thinthini | Yadgir     | 2013                  | 42.0               | 42.0                    |
| <b>Total</b> |                            |            |                       | <b>2870.82</b>     | <b>2025.35</b>          |

## **Research activities of UAS, Raichur**

Demand for an exclusive University for Agricultural Sciences for Hyderabad-Karnataka (H-K) region was felt almost a decade back (Annexure I) owing to inimitable climatic conditions and farming activities. The H-K region comprising Bidar, Gulbarga, Raichur, Bellary, Koppal and Yadgir districts, an agrarian area with an irrigation potentiality of 12 lakh hectares through Tungabhadra, Krishna, Karanja, Mullamari, Hirehalla, Bennethore and other irrigation projects, spanning a total geographical area of 44.96 lakh hectares accounting 33.6 % of the geographical area of the state, of which nearly 68 % is under cultivation and has a unique combination of medium (32.42 %) and large farmers (36.69 % bestowed with rich natural resources especially for agricultural development.

University of Agricultural Sciences, Raichur shall persuade the needs of Agricultural Education to sensitize the farming community with scientific innovations, short and long term way outs for the tribulations faced by the farming community through Research for growth and sustainability of agriculture sector and outreaching the technologies to uplift the socio-economic status of the farming community through strong Extension linkages. Thus “Greening the life of farming community through Education, Research and Extension” is set as the motto.

Research programmes are drawn in its 12 agricultural research stations situated in 6 districts of the Hyderabad- Karnataka state mainly to address issues of small holders and also farm women to improve their income and standard of living while ensuring food security. University has involved in development of high yielding varieties in paddy, pigeonpea, cotton, sorghum, groundnut, sunflower, greengram, blackgram, sugarcane, soybean etc. with the support of Karnataka state government. University has developed 180 technologies since its inception for increasing production, control of pests, diseases and weeds and to maintain soil health.

## List of AICRP schemes operating at UAS, Raichur

| Sl. No. | Name of the AICRP Schemes   | Year of Start | Location                   |
|---------|---|---------------|----------------------------|
| 1       | AICRP on Sunflower  | 1993          | MARS, Raichur              |
| 2       | AICRP on Groundnut  | 1993          | MARS, Raichur              |
| 3       | AICRP on Linseed  | 2001          | MARS, Raichur              |
| 4       | AICRP on Cotton   | 1967          | MARS, Raichur              |
| 5       | AICRP on Rice   | 1976          | ARS, Gangavati             |
| 6       | AICRP on Management of Salt Affected Soils and Use of saline water in agriculture | 1988          | ARS, Gangavati             |
| 7       | AICRP on Integrated Farming Systems   | 1967          | ARS, Siruguppa             |
| 8       | AICRP on Pigeonpea  | 1977          | ARS, Gulbarga              |
| 9       | AICRP on Chickpea   | 2000          | ARS, Gulbarga              |
| 10      | AICRP on Farm Power and Machinery   | 1996          | CAE, Raichur               |
| 11      | AICRP on Increased Utilization of Animal Energy                                   | 1988          | CAE, Raichur               |
| 12      | AICRP on Post Harvest Technology  | 2004          | CAE, Raichur               |
| 13      | AICRP on Renewable Energy Source  | 2001          | CAE, Raichur               |
| 14      | AICRP on Biological Control of Crop Pest & Weeds                                  | 2014          | MARS, Raichur              |
| 15      | AICRP on Sorghum  | 2014          | ARS, Kalaburagi            |
| 16      | AICRP on Plasticulture, Engineering and Technologies                              | 2014          | CAE, Raichur               |
| 17      | AICRP on Breeder Seed Production  | 2014          | Seed Unit,<br>UAS, Raichur |
| 18      | Voluntary Centre on Dryland Agriculture   | 2014          | MARS, Raichur              |

