

## Information on AICRP Centre : Mandya

**1. Name of the University/Department under which the centre is functioning :**

University of Agricultural Sciences, Bangalore  
GKVK, Bangalore-560 065 (Karnataka)

**2. Name of the centre with postal address, tel & fax e-mail :**

AICRP on Rice  
Zonal Agricultural Research Station  
V.C.Farm, Mandya-571 405  
Telephone : 08232-219673 (Scheme Head)  
277147 (Assoc. Director of Research)  
277124 (Senior Farm Superintendent)  
Fax : 277392 (Hybrid Rice)

**3. Name of the person in-charge with e-mail ID & mobile phone No :**

[Dr.M.P.Rajanna, Rice Breeder](#)  
E-mail : mprajanna@yahoo.co.in  
Mobile : 9945900893  
: 9844023559 (Resi)

**4. Next contact person with e-mail ID & mobile Phone No. :**

[Dr.M.Syed Anwarulla, Rice Agronomist](#)  
E-mail : syed\_anwarulla@rediffmail.com  
Mobile : 9901714909, 08232-277466

**5. Year of establishment as AICRIP centre :**

1965-Year of establishment of the University.  
1969-Year of establishment of the University

**6. List of scientist currently on AICRIP roll-discipline wise :**

Name	Designation	Remarks
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1. Dr.M.P.Rajanna	Rice Breeder	Scheme Head
2. Dr.P.Mahadevu	Jr.Rice Breeder	-
3. Dr.M.Syed Anwarulla	Rice Agronomist	-
4. Dr.D.K.Siddegowda	Rice Entomologist	-
5. Dr.N.Mallikarjuna	Rice Pathologist	On contract

### 7. List of other AICRIP staff :

Name	Designation	Remarks
1. Mr.K.Nagarajaiah	Field Assistant	-
2. Mr.B.K.Ningegowda	Field Assistant	-
3. Mr.C.Manjunath	Field Assistant	-
4. Mr.Ramachanra	Field Assistant	On contract
5. Mr.D.Chennappa	Driver (LV)	-

### 8. Region of the state represented by the centre :

Region No.1. **Southern Dry Region** in general and **Southern dry zone** (Zone No. 6) in specific. It is also called **Southern maidan area**.

### 9. Rice ecologies represented :

Irrigated transplanted paddy cultivated using water from reservoirs, tanks and open / bore wells.

### 10. Districts of the state covered :

All the taluks of Mandya, Mysore and Chamarajanagar districts: and two taluks of Tumkur and one taluk of Hassan districts.

### 11. Rice area in each of these districts-ecology wise :

Sl.No.	Districts	Area (ha)	
		Kharif (2006)	Summer (2007)
1.	Mandya	54,605	14627
2.	Mysore	1,02,274	01329

3.	Chamarajanagar	16,280	-
4.	Tumkur (2 taluks)	08,728	03420
5.	Hassan (1 taluk)	01,260	00455
	<b>Total</b>	<b>1,83,147</b>	<b>19,831</b>

## 12. Normal rainfall and other weather data :

### Weather data for the year 2006

Month	Rainfall		No. of rainy days		Temperature Max.		Temperature Min.	
	Normal*	2006	Normal*	2006	Normal*	2006	Normal*	2006
Jan. 06	1.8	-	-	-	28.6	29.5	14.3	14.7
Feb. 06	3.7	-	-	-	30.3	31.3	15.9	14.0
Mar. 06	2.3	29.0	-	03	32.5	34.2	18.1	19.8
Apr. 06	62.4	22.6	03	02	33.4	35.0	20.4	21.6
May. 06	70.6	138.6	04	10	32.4	34.0	26.0	20.9
Jun. 06	69	92.6	04	05	29.8	30.6	20.3	19.8
Jul. 06	54.7	11.0	05	01	27.9	30.1	19.8	19.9
Aug. 06	89.2	23.8	05	05	28.4	29.8	19.8	19.4
Sep. 06	171.2	48.4	06	05	28.8	30.7	19.6	20.0
Oct. 06	208.5	77.8	07	06	28.7	31.0	19.6	19.6
Nov. 06	68.2	66.6	03	04	28.0	30.5	17.7	18.5
Dec. 06	16.8	1.6	01	-	27.5	30.6	15.1	13.9
<b>Total</b>	<b>759.0</b>	<b>512</b>	<b>38</b>	<b>41</b>				

\* Normal : Average of 10 years from 1991-2000.

### Weather data for the year 2006 (Contd.).

Month	Relative humidity (%)				Hours of sunshine	
	Normal*		2006		Normal	2006
	Maximum	Minimum	Maximum	Minimum		
Jan. 06	86.8	44.0	89.0	35.0	8.36	7.7
Feb. 06	84.5	41.0	88.0	29.0	9.10	8.7
Mar. 06	83.3	57.0	83.0	34.5	9.62	9.0
Apr. 06	84.0	44.3	87.0	35.0	8.90	8.5
May. 06	85.2	46.7	89.0	44.0	8.66	7.3

<b>Jun. 06</b>	85.6	56.4	91.0	54.0	6.64	6.0
<b>Jul. 06</b>	87.0	61.9	90.0	53.0	5.01	5.5
<b>Aug. 06</b>	87.9	62.9	91.0	53.0	4.72	5.4
<b>Sep. 06</b>	87.7	60.1	91.0	50.0	6.30	6.5
<b>Oct. 06</b>	89.8	60.7	91.0	48.0	5.58	6.5
<b>Nov. 06</b>	87.7	58.0	91.0	46.0	6.12	6.7
<b>Dec. 06</b>	87.4	49.0	91.0	37.0	7.23	6.9
<b>Mean</b>	<b>86.41</b>	<b>53.50</b>	<b>89.18</b>	<b>43.21</b>	<b>7.19</b>	<b>7.06</b>

### 13. Soil type and fertility status :

Red sandy loam to gravel medium to low fertility level.

### 14. Popular rice varieties :

Thanu, MTU-1001, IR-64, BR-2655(Blast tolerant), Jaya, IR-30864(Saline tolerant), Tella Hamsa, Jyothi (Red Rice), Rasi, Mangala, and Hybrid KRH-2

### 15. Major production constraints :

- Scarcity and higher wages for labourers
- Lack of suitable machineries (transplanters & combined harvesters) for marginal and small farmers.
- Limited choice among high yielding Varieties suitable for August planting
- Lack of fine grain varieties suitable for July-August planting.
- Prevalence of low temperature and high humidity during November-December leading to high incidence of BPH, blast, sheath rot and sheath blight.
  - Increase area under problematic soils due non-adoption of recommended water and nutrient management practices
  - Non-adoption of IPM and IDM for effective control of pest and diseases.
  - Non-adoption of recommended INM practices.
  - Partial adoption of recommended agro-techniques viz., optimum seedling age, ideal no.of seedlings per hill, planting depth etc.,
  - Non availability of bio-agents against major insect pests of Rice.
  - Excess use of nitrogenous and under use of potash fertilizers.

- Non-adoption of recommended rice-based cropping system.

## 16. Major contribution of the centre in terms of varieties/technologies developed:

(a) Developed / Identified and released the following Varieties / Hybrids for cultivation.

Variety / Hybrid	Year	Salient feature
1. MTU 1001*	2005	Higher grain yield
2. MTU 1010*	2005	Higher grain yield
3. Thanu	2004	Quality rice
4. Vikas	2002	Saline tolerant
5. BR 2655**	2001	Blast tolerance, dual purpose
6. KRH-2	1006	Highest productivity
7. IET 8116*	1996	BPH tolerance
8. KRH-1	1994	High production
9. CTH-3	1992	Cold tolerance
10. IR 30864	1991	Saline tolerant
11. CTH-1	1990	Cold tolerant
12. IET 7575*	1989	BPH tolerant
13. Mandya Vijaya	1987	Quality rice
14. Karna	1985	Blast tolerant
15. Mandya Vani	1981	Fine grain and quality rice
16. Pakash	1977	LS grain and quality rice
17. Rasi	1977	Drought tolerant
18. Pushpa	1976	LS grain and quality rice
19. Vani	1977	Fine grain and quality rice
20. Mangala	1975	Short duration, cold tolerant
21. Pragathi	1972	Saline tolerant
22. Madhu	1972	Short duration
23. IR-20*	1972	Quality rice
24. Jaya*	1968	Wide adaptability

\* Identified from the coordinated material, \*\* Identified from the INGER material,

- Seed production practices for all the recommended varieties and hybrids for the region has been standardized and released.
- Breeder seeds of the notified varieties of national and state indents are being taken up regularly

(b) Developed / Identified and released the following production technologies for cultivation:

- Comprehensive production packages (seed to see) suitable for cultivation of recommended paddy varieties under irrigated transplanted condition has been developed and released.
- Cropping system suitable for the region – southern dry zone, irrigated *maidan* area has been standardized and released.
- Techniques for the cultivation of paddy using drum seeder (direct seeding) has been established and released for water scarce (tankfed and tailend) areas.
- Leaf colour chart technique has been standardized for nitrogen management in rice production

(c) Developed / Identified and released the following protection technologies(Entomology):

**Will be sent**

(d) Developed / Identified and released the following protection technologies (Pathology):

**Will be sent**

**17. Any other relevant informations:**

Zonal Agricultural Research Station, VC Farm, Mandya is also working as Voluntary centre for **Hybrid Rice Research** in the country. So far it has released two rice hybrids viz., KRH-1 and KRH-2. It has also developed several CMS lines and restorers. It has identified a new hybrid KRH-3. It is a medium duration, fine grain and non-scented hybrid.

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