

# APICULTURE



The growth of beekeeping in Andhra Pradesh has not been very encouraging during the last 20 years. Beekeeping not only offers honey and other bee products to mankind but also enriches Agri- Horticultural crops in quality and quantity by its unique crop pollination services. Beekeeping is an ideal activity for development as a subsidiary occupation providing supplementary income to a large number of rural, hilly and tribal populations.

To encourage bee keeping in A.P the department created a separate division for apiculture in 2002-2003. In a cluster approach the districts of Guntur and Krishna were adopted and 100 bee keepers were assisted.

In 2003-2004 (6) districts have been covered under this scheme and 207 bee keepers have been selected and trained by the department. They have been provided with essential inputs like Bee Boxes, Colonies, Honey extractors, stands and feeders. The department also selected persons who have been involved in this field for the past 15 years and taken bee keeping as a full time job. They have been given assistance to develop colonies of Apis Cerana and Apis Mellifera for supply to new bee keepers.

The total budget outlay for 2003-2004 was Rs.18.31 lakhs.

Many farmers have come to realise the benefits of Bee Keeping today. In view of the availability of bee flora this will be implemented in 2004-05 in 11 districts. The apiculture programme will be as follows.

## 1. Assistance for supply of inputs:

Sl. No.	Name of the component	Physical targets		Financial amount (Rs. in Lakhs)
		Cerana	Mellifera	
1	2	3	4	5
1.	Bee Boxes	350 Nos.	1075 Nos.	18.34625 Lakhs
2.	Bee Colonies	350 Nos.	1075 Nos.	
3.	Stands	350 Nos.	1075 Nos.	
4.	Honey Extractors	70 Nos.	215 Nos.	
5.	Feeders	Nil	1075 Nos.	
6.	Bee Veil	70 Nos.	215 Nos.	

- Proposed to provide 5 Bee boxes, with colonies, stands, Bee veil, & Honey Extractor for Apis cerana @ 50% assistance limited to Rs.4325/- and for Apis Mellifera the same inputs will be supplied along with feeders @ 50% assistance limited to Rs.7125/-.
- Apis mellifera & Apis cerana will be encouraged.



Queen bee of Apis Mellifera



Queen Bee of Apis Cerana

- The Bee breeders registered with the department will be called for negotiation for the supply of above inputs.

Budget Out lay: Rs.18.34625 lakhs.

#### District wise Physical and Financial allotment based on the potential.

Sl. No.	District	Physical Target		Total	Financial target (Rs. In lakhs)		Total (Rs. in lakhs)
		Cerana	Mellifera (Nos.)		Cerana	Mellifera	
1	2	3	4	5	6	7	8
1	Vizianagaram	NIL	30	30	NIL	2.1375	2.1375
2	Nellore	15	15	30	0.64875	1.06875	1.7175
3	Kadapa	5	10	15	0.21625	0.7125	0.92875
4	Ananthapur	15	15	30	0.64875	1.06875	1.7175
5	Kurnool	Nil	50	50		3.5625	3.5625
6	Chittoor	15	20	35	0.64875	1.425	2.07375
7	Warangal	5	5	10	0.21625	0.35625	0.5725
8	Adilabad	Nil	20	20		1.425	1.425
9	Medak	Nil	10	10		0.7125	0.7125
10	East Godavari	Nil	20	20		1.425	1.425
11	Prakasham	15	20	35	0.64875	1.425	2.07375
	<b>Total</b>	<b>70</b>	<b>215</b>	<b>285</b>	<b>3.0275</b>	<b>15.31875</b>	<b>18.34625</b>

### Calendar of Events:

- |                                      |   |
|--------------------------------------|---|
| 1. Identification of beneficiaries   | May-June  |
| 2. Supply of bee boxes with colonies | November onwards depending on weather conditions. |

### 2. DEVELOPMENT OF BEE COLONIES



- As a follow up activity and with an aim to have adequate seed material, a seed bank is proposed. The department will provide assistance to bee keepers who have been covered in the last 2 years scheme.
- Proposed to assist 42 bee keepers @ Rs.5,000/- per Bee Keeper/ (Selected beneficiary of the last years scheme)

#### Bee breeder eligibility criteria:-

- a. The selected beneficiary should have developed 5 to 10 boxes ( 4/5 frame strength in each box ) other than the boxes given by the department.
- b. The assistance will be given to the selected beneficiaries/ Interested bee breeders of last year selected six potential districts i.e. Srikakulam, Vizianagaram, Visakahpatnam, East Godvari, West Godvari ,Prakasham, Guntur and Krishna.

#### Terms and conditions:-

- a. The assistance is provided in the form of bee breeding equipment like Comb foundation sheet, and bee boxes on submission of vouchers by the breeder.
- b. The breeder has to supply bee colonies to the Department on the rates fixed on negotiation.

#### Budget Out Lay: Rs. 2.10 Lakhs

Sl.No.	Name of the Component	Physical target	Financial (Rs. in lakhs)
1	2	3	4
1.	Development of Colonies	42 (Nos.)	2.10



### District wise Physical and Financial allotment based on potential.

Sl.No.	District	Physical Target (Bee Keepers/ Bee breeders)	Financial (Rs. in Lakhs)
1	2	3	4
1.	Srikakulam	8 Nos.	0.40
2.	Vizianagaram	8 Nos.	0.40
3.	Visakhpatnam	6 Nos.	0.30
4	East Godvari	6 Nos.	0.30
5.	Prakasham	8 Nos.	0.40
7.	Guntur	6 Nos.	0.30
	Total	42Nos.	2.10

#### Calendar of Events:

1. Giving wide publicity in the month of May-June
2. Identification of beneficiaries in the month of July-August.
- 3. DEMONSTRATION OF IMPROVED YIELD THROUGH BEE POLLINATION:**
  - a. Aim is to create awareness on the pollination services rendered by bees in terms of quality and quantity, improvement in fruits and Vegetable crops.
  - b. Proposed to identify progressive farmers field to demonstrate the yield increase by recording regularly by supplying 5 Mellifera boxes along with colonies, 5 Stands, 1 Bee veil, 1 Honey Extractor and 5 Feeders to each beneficiary @ 50% subsidy limited to Rs.7,125/- per beneficiary.

#### Budget Outlay : 0.14250 Lakh

Sl. No.	District	Physical Target	Financial target. (Rs. in Lakhs)
1.	Vizianagaram	2 Nos.	0.14250

#### Calendar of Events:

1. Giving wide publicity in the month of May-June
2. Identification of beneficiaries in the month of July-August.
- 4. ASSISTANCE FOR COMB FOUNDATION SHEET MACHINE:**
  - Comb foundation sheet machine is useful in getting wax sheets, which will help the bees to build up the comb very fast.
  - Proposed to set up one comb foundation sheet machine by giving an assistance limited to Rs.15,000/- for Apis Mellifera.



**Budget Outlay : 0.15 lakh**

Sl. No.	Component	Physical target	Financial target (Rs. in Lakhs)
1.	Comb foundation sheet machine	1 Unit	0.15

#### **5. CONSULTANCY SERVICES:**

- Especially for seasonal activities like bee keeping technical guidance is very beneficial to beekeepers.
- Proposed to hire expert services to have continuous technical follow up in the operational areas of the Department.
- Three field level experts will be hired to visit the bee keeping units in Srikakulam, Vizianagaram, Visakhapatnam, East Godavari, West Godavari and Prakasham

#### **Terms and conditions:**

- a. The field level expert has to visit three days in a month to each district allotted to them and submit the report.

**Budget Outlay : Rs. 1.74 Lakh.**

Sl. No.	Name of the component	Physical targets	Financial (Rs. in Lakhs)
1.	Consultancy services	3 Nos.	1.74

## 6.a) Training programme

a. Intensive training programme will be conducted by involving experts in Bee keeping.



**Budget Out lay : Rs.8.75 lakhs**

**The schedule of training programme is as follows**

Sl. No.	District	No. of farmers	Duration of the training programme.	Financial (Rs. in lakhs)
1.	Vizianagaram	30	3 days	8.75
2.	Nellore	30	3 days	
3.	Kadapa	15	3 days	
4.	Ananthapur	30	3 days	
5.	Kurnool	50	3 days	
6.	Chittoor	35	3 days	
7.	Warangal	10	3 days	
8.	Adilabad	20	3 days	
9.	Medak	10	3 days	
10.	East Godavari	20	3 days	
11.	Prakasham	35	3 days	

### **Calendar of event:**

1. Training programmes will be conducted in the month of September – October

### **b) Exposure visit**

The progressive beekeepers will be taken to the states like Punjab/ Karnataka/ Maharastra to visit apiaries and to know the latest usage of technologies in Beekeeping. The total no. of farmers 40nos.

**Budget Out lay : Rs. 1.00 lakh.**

Sl. No.	Component	Physical target	Financial (Rs. in lakhs)
1.	Exposure visit	40 Nos	1.00

**Calendar of event:**

Exposure visit will be in the month of August – September.

**c) Conducting a training programme cum workshop on bee keeping.**

On Public demand a training cum workshop on bee keeping for one day will be held at Hyderabad by collecting a registration fees from the interested persons.

**Budget out lay : Rs.0.50 lakh.**

Sl. No.	Component	Physical target	Financial (Rs. in lakhs)
1.	Training cum work shop on bee keeping	100 Nos.	0.50

**Calendar of event:**

Training cum workshop will be conducted in the month of October.

**7. PUBLICITY (Booklets / Leaflets/C.Ds):-.**

The information on better bee keeping practices will be prepared and supplied to the Bee Keepers. Proposed to equip the Department with books and journals on beekeeping and pamphlets, posters and brochures.

**BUDGET OUTLAY : Rs. 0.50 lakhs.**

Sl.No.	Component	Financial (Rs. in lakhs)
		Central share
1.	Publicity	0.50

### ABSTRACT

Sl. No.	Component	Amount (Rs. in lakhs)
<b>1</b>	<b>2</b>	<b>3</b>
1.	ASSISTANCE FOR ESSENTIAL INPUTS	18.34625
2.	ASSISTANCE FOR UPGRADATION OF BEE BREEDERS	2.10
3.	DEMONSTRATION OF IMPROVED YIELD THROUGH BEE POLLINATION	0.14250
4.	ASSISTANCE FOR COMB FOUNDATION SHEET MILL	0.15
5.	CONSULTANCY SERVICES	1.74
6.	TRAININGS	
	A. Training to Beekeepers	8.75
	B. Exposure visit	1.00
	C. Training cum work shop to urban people	0.50
7.	PUBLICITY	0.50
	<b>Total</b>	<b>33.22875</b>