

ANNUAL ADMINISTRATION REPORT

2014-15



**DEPARTMENT OF AGRICULTURE
ANDHRA PRADESH, HYDERABAD**

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SEASONAL CONDITIONS AND CROP COVERAGE:

The Seasonal conditions during the year 2014-15 on the whole were satisfactory. During the South-West Monsoon period Rainfall was received deficit rainfall of 36% against normal. North east monsoon period rainfall was received deficit of -43% as compared to normal. During the year 2014-15 an average rainfall of 606.1mm was recorded as against the normal rainfall of 966.0 mm thus showing the deficit of -37% over normal rainfall

SEASON - WISE RAINFALL IN ANDHRA PRADESH

(Rainfall in mm)

| S.No | SEASON | NORMAL | 2013-14 | 2014-15 | % Dev. Over Normal | STATUS |
|--------------|---|------------|--------------|--------------|--------------------|----------------|
| 1 | SOUTH WEST MONSOON (JUNE TO SEPTEMBER) | 556 | 518.9 | 355.7 | -36.0 | Deficit |
| 2 | NORTH EAST MONSOON (OCTOBER TO DECEMBER) | 296 | 359.1 | 170 | -42.6 | Deficit |
| 3 | WINTER PERIOD (JANUARY TO FEBRAURY) | 15.7 | 1.2 | 2.5 | -84.1 | Scanty |
| 4 | HOT WEATHER PERIOD (MARCH TO MAY) | 98.3 | 88.9 | 77.9 | -20.8 | Deficit |
| TOTAL | | 966 | 968.1 | 606.1 | -37.3 | Deficit |

PREMONSOON RAINFALL

During the month of May 2014, the state received an average rainfall of 75.1. mm as against the normal rainfall of 68.9 mm, Excess being 51 percent. During this month the rainfall was normal in Visakhapatnam, Guntur and Kurnool districts. Deficit rainfall was recorded in Chittoor and Kadapa districts, scanty rainfall was recorded in Prakasam and Nellore districts and excess rainfall was recorded in the remaining 6 districts of the state.

SOUTH-WEST MONSOON PERIOD (June to September'2014)

The Southwest monsoon has advanced into some parts of Rayalaseema and Coastal Andhra Pradesh on 7th June, 2017. South-west monsoon has further advanced into the remaining parts of Rayalaseema on 12th June, 2017. It has advanced into remaining parts of Coastal Andhra Pradesh on 14th June 2017.

During the South West Monsoon 2014, the State received an average rainfall of 355.7 mm as against the normal rainfall of 556.0 mm, deficit being 36 percent. The rainfall was Normal (-19% to +19%) in Srikakulam and Vizianagaram districts and deficit (-20% to -59% above) in the remaining 11 districts of the State.

NORTH EAST MONSOON (October to December, 2014):

The South-West monsoon has withdrawn from some parts of Andhra Pradesh on 18th October, 2014. Simultaneously, North East monsoon have commenced over Rayalaseema and Coastal Andhra Pradesh on 18th October, 2014.

During the North-East monsoon 2014, the average rainfall received was 170.0 mm as against the normal rainfall of 296.0 mm, deficit being 43 percent. The rainfall was excess in vizianagaram district, normal in Srikakulam, Visakapatanam districts, scanty in East Godavari and West Godavari districts and deficit in the remaining 8 districts of the state.

WINTER PERIOD

During the winter period 2015, the average rainfall received was 2.5 mm as against normal rainfall of 15.7 mm, deficit being 84 percent.

HOT WEATHER PERIOD

During the Hot weather period 2015, the average rainfall received was 77.9 mm as against normal rainfall of 98.3 mm, deficit being 21 percent.

ANNUAL RAINFALL 2014 – 2015

During the year 2014-15, the average rainfall received was 606.1 mm as against normal rainfall of 966.0 mm, deficit being 37 percent. The Normal rainfall was received in Srikakulam, Vizianagaram and Visakhapatnam districts and Deficit rainfall was received in the remaining 10 districts of the State.

| CROP-WISE AREA, YIELD AND PRODUCTION DURING 2014-15 | | | | | | | | | | |
|--|---------------------------|---------------------------|--------------|--------------|------------------------|-------------|--------------|---------------------------------|--------------|---------------|
| S. No. | Crop | AREA (in lakh ha.) | | | YIELD (Kg./ha.) | | | PRODUCTION (Lakh tonnes) | | |
| | | Kharif | Rabi | Total | Kharif | Rabi | Total | Kharif | Rabi | Total |
| | Cereals | | | | | | | | | |
| 1 | Paddy | 16.35 | 7.59 | 23.94 | 4677 | 6636 | 5298 | 76.47 | 50.37 | 126.84 |
| 3 | Jowar | 0.37 | 1.05 | 1.42 | 1487 | 2770 | 2435 | 0.55 | 2.90 | 3.45 |
| 4 | Bajra | 0.25 | 0.03 | 0.28 | 1289 | 1924 | 1366 | 0.32 | 0.07 | 0.39 |
| 5 | Maize | 1.00 | 2.03 | 3.03 | 3292 | 7910 | 6390 | 3.29 | 16.09 | 19.38 |
| 6 | Ragi | 0.29 | 0.05 | 0.34 | 952 | 1500 | 1029 | 0.27 | 0.07 | 0.34 |
| 7 | Minor Millets | 0.18 | 0.02 | 0.20 | 722 | 1091 | 750 | 0.13 | 0.02 | 0.15 |
| | Total coarse grain | 2.09 | 3.18 | 5.27 | | | | 4.56 | 19.15 | 23.71 |
| | Pulses | | | | | | | | | |
| 8 | Bengalgram | 0.00 | 3.42 | 3.42 | 0 | 1144 | 1144 | 0.00 | 3.91 | 3.91 |
| 9 | Redgram | 1.49 | 0.02 | 1.51 | 500 | 782 | 503 | 0.75 | 0.01 | 0.76 |
| 10 | Greengram | 0.11 | 1.60 | 1.71 | 917 | 820 | 826 | 0.10 | 1.31 | 1.41 |
| 11 | Blackgram | 0.19 | 2.96 | 3.15 | 1079 | 937 | 946 | 0.21 | 2.78 | 2.99 |
| 12 | Horsegram | 0.11 | 0.25 | 0.36 | 449 | 439 | 442 | 0.05 | 0.11 | 0.16 |
| 13 | Other pulses(cowgram etc) | 0.08 | 0.20 | 0.28 | 418 | 1121 | 898 | 0.04 | 0.23 | 0.27 |
| | Total Pulses | 1.98 | 8.45 | 10.43 | | | | 1.15 | 8.35 | 9.50 |
| | Total Foodgrains | 20.42 | 19.22 | 39.64 | | | | 82.18 | 77.87 | 160.05 |
| | Oilseeds | | | | | | | | | |
| 14 | Groundnut | 8.04 | 0.70 | 8.74 | 410 | 2325 | 564 | 3.30 | 1.63 | 4.93 |
| 15 | Sesamum | 0.21 | 0.64 | 0.85 | 272 | 347 | 328 | 0.06 | 0.22 | 0.28 |
| 16 | Sunflower | 0.11 | 0.39 | 0.50 | 540 | 877 | 803 | 0.06 | 0.34 | 0.40 |
| 17 | Safflower | 0.00 | 0.01 | 0.01 | 438 | 309 | 323 | 0.00 | 0.00 | 0.00 |
| 18 | Niger seed | 0.00 | 0.07 | 0.07 | 0 | 322 | 322 | 0.00 | 0.02 | 0.02 |
| 19 | Soybean | 0.01 | 0.00 | 0.01 | 2288 | 1541 | 2134 | 0.02 | 0.00 | 0.02 |
| 20 | Castor | 0.46 | 0.02 | 0.48 | 578 | 489 | 575 | 0.27 | 0.01 | 0.28 |
| 21 | Rape & Mustard | 0.00 | 0.06 | 0.06 | 0 | 561 | 561 | 0.00 | 0.03 | 0.03 |
| | Total oilseeds | 8.83 | 1.89 | 10.72 | | | | 3.70 | 2.26 | 5.96 |
| 22 | Cotton (kapas) | 8.15 | 0.06 | 8.21 | 1730 | 1318 | 1727 | 14.10 | 0.08 | 14.18 |
| 23 | Mesta (#) | 0.07 | 0.00 | 0.07 | 1276 | 0 | 1276 | 0.47 | 0.00 | 0.47 |
| 24 | Chillies | 1.09 | 0.26 | 1.35 | 5621 | 4879 | 5480 | 6.15 | 1.25 | 7.40 |
| 25 | Sugarcane | 1.39 | 0.00 | 1.39 | 71847 | 0 | 71847 | 100.03 | 0.00 | 100.03 |
| 26 | Turmeric | 0.17 | 0.00 | 0.17 | 8664 | 0 | 8663 | 1.43 | 0.00 | 1.43 |
| 27 | Tobacco | 0.03 | 1.36 | 1.39 | 2963 | 2556 | 2565 | 0.09 | 3.48 | 3.57 |
| 28 | Onion | 0.29 | 0.04 | 0.33 | 18361 | 21378 | 18720 | 5.41 | 0.85 | 6.26 |
| 29 | Coriander | 0.00 | 0.40 | 0.40 | 517 | 517 | 517 | 0.00 | 0.21 | 0.21 |
| | Total cropped area | 40.44 | 23.23 | 63.67 | | | | | | |

(#) Mesta production in lakh bales of 180 kgs.
Source: Directorate of Economics & Statistics, AP.

AREA AND PRODUCTION OF FOOD GRAINS DURING 2014-15

AREA UNDER KHARIF FOOD GRAINS:

The area under foodgrains in Kharif 2014-15 was 20.42 lakh hectares as against 21.90 lakh ha in 2013-14 showing an decrease of 6.80 percent.

AREA UNDER RABI FOOD GRAINS:

The area under foodgrains in Rabi 2014-15 was 19.22 lakh hectares as against 21.90 lakh hectares in 2013-14, showing a decrease by 12.21%

FOOD GRAINS PRODUCTION:

The total food grains production in the State is estimated to 117.75 lakh tonnes in 2014-15 as against 116.98 lakh tonnes in 2013-14. The production under foodgrains during 2014-15, is increased by 0.66% compared to previous year.

KHARIF FOOD GRAINS PRODUCTION:

The Kharif food grains production is estimated at 56.68 lakh tonnes in 2014-15 as against 50.87 lakh tonnes in 2013-14, showing an increase of 11.42% due to increase of area and yield under food grain crops.

RABI FOOD GRAINS PRODUCTION:

The production of food grains during Rabi 2014-15 is decreased to 61.07 lakh tonnes from 66.11 lakh tonnes in 2013-14, showing a decrease of 7.62% when compared to previous year.

NATURAL CALAMITIES

Different Natural Calamities occurred during 2015-16 and details of districts affected, extent damaged, input subsidy released are as follows:

HUDHUD Cyclone Oct 2014:

| | |
|---------------------------------|--|
| No of Districts affected | 4 (Srikakulam, Vizianagaram ,Vishakapatnam,East Godavari) |
| Total Extent damaged | 777942 ha |
| Input subsidy required (SF /MF) | Rs 13947.39 lakhs |
| Input subsidy required (OF) | Rs 89.44 |
| Total Input subsidy released | Rs 14036.8292 lakhs |

HUDHUD Cyclone Oct 2014 (BPH):

| | |
|---------------------------------|--------------------|
| No of Districts affected | 1 Srikakulam |
| Total Extent damaged | 16972.42 ha |
| Input subsidy required (SF /MF) | Rs 2523.50 lakhs |
| Input subsidy required(OF) | Rs 22.36 |
| Total Input subsidy released | Rs 2545.8600 lakhs |

DROUGHT KHARIF- 2014:

| | |
|---------------------------------|--|
| No of Districts affected | 4 Anathapuramu, YSR Kadapa, Chittoor, Prakasham |
| Total Extent damaged | 707172 ha |
| Input subsidy required (SF /MF) | Rs53452.87 lakhs |
| Input subsidy required (OF) | Rs 15813 |
| Total Input subsidy released | Rs 69266.52lakhs |

Heavy Rains during October & December -2014

| | |
|---------------------------------|-------------------|
| No of Districts affected | 1 Kurnool |
| Total Extent damaged | 396 ha |
| Input subsidy required (SF /MF) | Rs 37.71 lakhs |
| Input subsidy required (OF) | Rs 0.58 lakhs |
| Total Input subsidy released | Rs 38.28300 lakhs |

DROUGHT KHARIF- 2014 (Kurnool):

| | |
|---------------------------------|------------------|
| No of Districts affected | 1 Kurnool |
| Total Extent damaged | 75515.26 Ha |
| Input subsidy required (SF /MF) | Rs.7324.66 lakhs |
| Input subsidy required (OF) | 0.00 |
| Total Input subsidy released | Rs.7324.66 lakhs |

HUDHUD VSP (Additional):

| | |
|------------------------------------|--------------------|
| No of Districts affected | 1 Vishakapatnam |
| Total Extent damaged | 76 Ha |
| Input subsidy required (SF /MF) | Rs.11.40 lakhs |
| Input subsidy required (OF) | 0.00 |
| Total Input subsidy to be released | Rs.11.40 lakhs |

Dry Conditions during Rabi 2014-15

| | |
|------------------------------------|---------------|
| No of Districts affected | 1 Kadapa |
| Total Extent damaged | 72 Ha |
| Input subsidy required (SF /MF) | Rs.7.20 lakhs |
| Input subsidy required (OF) | 0.00 |
| Total Input subsidy not considered | Rs.7.20 lakhs |

Dry Conditions during Rabi 2014-15

| | |
|------------------------------------|-----------------|
| No of Districts affected | 1 Nellore |
| Total Extent damaged | 2757.870 Ha |
| Input subsidy required (SF /MF) | Rs.356.69 lakhs |
| Input subsidy required (OF) | 0.00 |
| Total Input subsidy not considered | Rs.356.69 lakhs |

Heavy Rains during September 2014 in West Godavari

| | |
|------------------------------------|--------------------|
| No of Districts affected | 1 West Godavari |
| Total Extent damaged | 2158 Ha |
| Input subsidy required (SF /MF) | Rs.215.82 lakhs |
| Input subsidy required (OF) | Rs.0.58 |
| Total Input subsidy to be released | Rs.215.82 lakhs |

SOIL TESTING

Soil is an important factor in crop production & productivity, In order to optimize the soil productivity, soil sampling and soil testing program is organized in a systematic manner to evaluate the fertility status and to identify the soil problems, (Salinity/ sodality) if any, to improve fertility and reclaim the problematic soils in Andhra Pradesh.

Government of India introduced the Soil Testing program as early as 1954. The program of Soil Testing in Andhra Pradesh was started in 1957 with the establishment of only (2) laboratories at Rajendranagar and Bapatla. The program gained momentum in the early sixties and by the end of 1970, it was proposed to establish a soil testing laboratory in each district & initially the soil testing labs were established in Vizianagaram and Prakasam and later on a lab was set up in each district. In addition to the above laboratories (5) Mobile Soil Testing Laboratories were established with Head quarters at Rajendranagar, Bapatla Kadapa, Samalkot and Visakhapatnam for on the spot analysis of soil samples in the remote villages of the districts as well as in the farmers fields. During 2010-11 & 2014 -15 under National Project 4 more Soil Testing labs has been established one at Dhone, Kurnool, Nellore, Vizianagaram, and one Mobile Soil Testing Lab at Samalkot, East Godavari.

Objective of the Soil Testing:-

The object of soil testing program is to assess the fertility status of the soil and furnishing soil test based fertilizer recommendations (Soil Health Cards) to farmers for obtaining optimum yields. It is also useful to give farmer a service leading to better and more economic use of fertilizers and better soil management practices for increasing Agricultural Production.

Infrastructure:-

The Department has a network of (16) Soil Testing Laboratories (STLs) at district & (30) at sub district (Agriculture Market Committee) levels in addition to (1) Regional STLs and (4) Mobile STLs. The soil testing program is supervised by a Joint Director of Agriculture (Soil Correlator) at state level.

The Departmental Soil Testing Laboratories are equipped to analyse the organic carbon (OC) (index of nitrogen content), phosphorus, potassium, zinc, iron, copper, manganese, salinity (EC) and alkalinity (pH). The Mobile Soil Testing Laboratories and AMC mini laboratories however analyse only organic carbon, phosphorus, potassium, EC and pH.

Staff:-

The Joint Director of Agriculture at state level supervises the soil-testing program in the state. Assistant Director of Agriculture heads each Soil Testing Laboratory and 2-3 AOs and other technical & non-technical staff. The Soil Testing Program is being implemented with the assistance of (1) Deputy Directors of Agriculture (Regional Soil Testing Laboratories) with Head Quarters at Bapatla having jurisdiction of Andhra and Rayalaseema districts respectively. The soil testing

laboratories will work under the technical supervision of Deputy Directors of Agriculture (Regional Soil Testing Laboratory).

Targets and Achievements:-

An annual target for analysis of 1,69,000 samples was fixed through out the state. 1,81,407 samples were analysed during 2014-15 and the soil health cards distributed to the farmers. Besides the above 90,008 samples were analyzed for micronutrients as against the target of 96,400. 18,259 water samples were analyzed to test their suitability for growing crops as against target of 13,220 samples. The results of the soil analysis are communicated to respective farmers in shape of Soil Health Cards. The Soil Health Cards contains the information on Soil Fertility status showing the available nutrient. Based on the available nutrients, fertilizer recommendations are given in the card for the crops to be grown by the farmer.

Programme of work at STLs:-

The soil samples will be received in the Soil Testing Laboratory from extension staff, public and private agencies besides directly from progressive farmers. The Mobile Soil Testing Laboratories will conduct tours mostly to remote villages in the districts for on the spot analysis of soil samples. Based on the Soil Test values, fertilizer recommendations will be given to the farmers in the form of Soil Health Card based on the ANGRAU crop wise nutrient recommendations.

In addition to the above analysis, soil samples are also analyzed for micronutrients like Zinc, Iron, copper, Manganese and Sulphur etc. There is good response from the farmers in sending their samples for micronutrient analysis especially from the cultivators of those who are raising orchards. New Atomic Absorption Spectrophotometers have been supplied to all the District STLs, RSTL Bapatla and few AMC STLs so that the Micronutrient analysis can be carried out more efficiently.

The results of the soil analysis are communicated to the respective farmers in the shape of Soil Health Card. The Soil Health Card contains the information on the soil fertility status showing the analytical data on soil texture, pH, EC, available Nitrogen, Phosphorous and Potassium. Based on the available nutrients, fertilizer recommendations are given in the card for the crop to be grown by the farmer.

Check samples:

Internal Check provides immediate verification and rectification of analytical errors and being monitored by Assistant Director of Agriculture (STL) concerned by maintaining a set of bulk samples.(1:30) and @ 1 per 100 samples as check sample has been sent to the DDA, RSTL, Bapatla for the external check of analysis.

Schemes implemented under RKVY during 2014-15

i. Bhuchetana - ICRISAT- Bridging crop yield gaps through science led development in Andhra Pradesh

The Department of Agriculture has taken up an innovative approach to adopt science based development of agriculture with technical support from ICRISAT – led consortium by mapping out the nutrient deficiencies in the soils and developing mandal wise balanced nutrient recommendations.

The overall goal of the project is to increase average productivity of target crops in the selected districts by 25% in five years and identify suitable strategies for cropping with the likely changes associated with climate change.

The project implemented in the state since 2011-12 in 3 districts i.e Kurnool, Kadapa and Prakasam. During 2012-13 in 5 districts i.e Kadapa, Prakasam, Ananthapur, Guntur and West Godavari. During 2013-14 and 2014-15 in all the 13 districts the project is implemented taking into consideration of prevailing major crops and soil type.

ii. Upgradation of Soil Testing Labs :

Boron is an essential element for plant development, growth, crop yielding and seed development by helping the transfer of water and nutrition in plants. Even though boron requirement is low in plants their growth and crop yield are severely affected when there is boron deficiency in the soil. Hence to make available the boron testing facilities to the farmers of AP, Boron Testing equipment was supplied to all the district soil testing laboratories (13 Nos with an amount of Rs.65.00 lakhs).

Mission Project to boost productivity in rain fed areas of Andhra Pradesh:

Department of Agriculture has taken up an innovative approach to adopt soil test based recommendations along with good management practices (soils, crop & water management) including improved varieties and sustainable use of natural resources through a mission mode project. Mission Project is implemented in the districts covering an area of 500 ha per district during the year 2013-14 and 2014-15.

To study the impact on large scale, the project was implemented in all the districts.

| S. No. | Title of the Project | 2014-15 | | | |
|--------------|---|----------|-------------|--------------------------|---------------|
| | | Physical | | Financial (Rs. in Lakhs) | |
| | | Target | Achievement | Target | Achievement |
| 1 | Bhuchetana (districts) | 13 | 13 | 180.00 | 180.00 |
| 2 | Strengthening of Soil Testing Labs (No.s) | 13 | 13 | 65.00 | 65.00 |
| 3 | Mission Project to boost productivity in rainfed areas of Andhra Pradesh (Ha) | 13 | 13 | 605.00 | 605.00 |
| Total | | | | 850.00 | 850.00 |

Soil Health Management under National Mission for Sustainable Agriculture

During 2014-15, National Project on Management of Soil Health and Fertility (NPMSHF) has been merged into a new mission named as 'National Mission for Sustainable Agriculture (NMSA). Soil health Management is a sub mission under NMSA which is aimed to increase soil nutrient status and thus enhance crop productivity for ensuring food security and sustaining rural development.

During 2014-15 the GOI has released an amount of Rs.144 lakhs towards Setting up of new State Fertilizer Quality Control Laboratories at Prakasam district and Setting up of new Bio fertilizer and organic fertilizer testing / Quality control laboratory (BOQCL) under FCO at Nellore district. The GOI has released an amount of Rs.252.00 lakhs towards setting up of 5 new Mobile Soil Testing Laboratories at Srikakulam, West Godavari, Prakasam, Ananthapur and Chittoor district.

Soil Health Card Scheme under NMSA

The GOI has launched Soil Health Card Scheme on 19.2.2015 with an objective to issue soil health cards to farmers covering all the land holdings within a period of three years. The farmers will be covered once in every three years.

As per the guidelines of GOI the sharing pattern of funds for implementation of scheme is 75:25. In this regard for the year 2014-15 towards implementation of soil health card scheme GOI has released an amount of Rs.124.08 lakhs towards which the state share is Rs.41.36 lakhs.

Soil Health Card scheme under NMSA during 2014-15 (1st Phase)

(Funds in Rupees)

| S.No | Name of the District | Financial | | |
|--------------|----------------------|------------------------|------------------|----------------|
| | | Funds Releases to JDAs | Expenditure JDAs | Balance |
| 1 | Srikakulam | 598000 | 571000 | 27000 |
| 2 | Vizianagaram | 1199570 | 1152533 | 47037 |
| 3 | Visakhapatnam | 1302200 | 613048 | 689152 |
| 4 | East Godavari | 1720400 | 1720400 | 0 |
| 5 | West Godavari | 750870 | 750724 | 146 |
| 6 | Krishna | 1053400 | 1053400 | 0 |
| 7 | Guntur | 1787800 | 1695838 | 91962 |
| 8 | Prakasam | 1273400 | 1273400 | 0 |
| 9 | Nellore | 1341700 | 687736 | 653964 |
| 10 | Chittoor | 1373100 | 1298482 | 74618 |
| 11 | Ananthapur | 951700 | 951700 | 0 |
| 12 | Kadapa | 1461300 | 1364528 | 96772 |
| 13 | Kurnool | 1566330 | 1566330 | 0 |
| Total | | 16379770 | 14699119 | 1680651 |

INTEGRATED NUTRIENT MANAGEMENT SCHEME - with special emphasis on micronutrient deficiency correction

Implemented under State Development Plan

Analysis of soil samples has indicated that 40-49% of soils in Andhra Pradesh are potentially deficient in Zn, 12% in Iron(Fe), 5% in Manganese(Mn), 3% in copper (Cu), 33% in boron (Bo), 11% in molybdenum (Mo) and 20-24 % of soils in AP are deficient in Sulphur. Basal application to soil and/or foliar sprays of these nutrients have shown significant effect on crop yields.

It has been observed by preliminary soil mapping exercise undertaken by Department of Agriculture with ICRISAT, soil health card scheme 1st cycle & Other Organizations, large scale deficiencies of multiple nutrients such as micro and secondary nutrients like Zinc, Boron, Sulphur, Iron and in some case copper are recorded below critical limits which are reducing the responses to added N,P,K nutrients also. In most cases, farmers attribute the deficiencies caused by micronutrients to macronutrients and in turn add more quantities of N,P,K fertilizers to soils which do not result in increased crop yields.

Objectives:

1. To create awareness on identification of deficiency symptoms of nutrients in crops.
2. Increase awareness among farmers about the soil health to enable sustainability of agriculture production.
3. Reduce usage of Nitrogen and phosphoric fertilizer applications and emphasize the importance of Integrated Nutrient Management based on soil test recommendations.

Benefits of the Programme:

1. Improvement and maintenance of soil fertility.
2. Regulated nutrient supply for optimum crop growth.
3. Increased productivity.

Guidelines for Implementation of the Program

- Micronutrients like Zinc Sulphate, Borax, and Gypsum are supplied to farmers on subsidy through aadhar enabled biometric system based on soil test results on production of Soil Health Card.
- Gypsum is supplied for Reclamation of alkaline soils also.
- Zinc Sulphate will be supplied to paddy, maize, cotton, groundnut and other crops @ 50Kg/ha for basal application and Zinc Foliar spray @ 0.5Kg/ha.
- Gypsum will be supplied to Paddy in moderately alkaline soil, Groundnut @ 500Kg/ha and also for reclamation of alkaline soils @ 1000Kg/ha.
- Boron will be supplied to cotton and groundnut for soil application @ 2.5kg/ha.

The Govt. of Andhra Pradesh has given utmost importance for correcting the micronutrient deficiencies in Soils and has been providing funds for successful implementation of the program in the State.

The crop cutting experiments were conducted in majors crops in all the districts at the end of season to study the effect of deficiency correction on crop productivity.

The quantities which were distributed to farmers on 50% subsidy for correcting deficient areas in all major crops cultivated during 2014-15.

Districtwise micronutrients distributed and deficient area covered under Integrated Nutrient Management Scheme during 2014-15

(Qty. in MTs & Area in Ha)

| S.No. | District | Quantity distributed in M.tons | | | Area covered in Ha |
|-------|---------------|--------------------------------|--------------|-------------|--------------------|
| | | Zinc | Boron | Gypsum | |
| 1 | Srikakulam | 10.0 | 0.2 | 196.0 | 1486 |
| 2 | Vizianagaram | 64.5 | 15.6 | 578.0 | 8286 |
| 3 | Visakhapatnam | 2.0 | 0.0 | 34.0 | 232 |
| 4 | E.Godavari | 551.0 | 16.6 | 788.0 | 37835 |
| 5 | W.Godavari | 392.7 | 32.6 | 532.0 | 57134 |
| 6 | Krishna | 136.0 | 6.3 | 68.0 | 11010 |
| 7 | Guntur | 178.0 | 0.5 | 1250.0 | 12208 |
| 8 | Prakasam | 387.0 | 17.5 | 1500.0 | 36866 |
| 9 | Nellore | 939.5 | 1.0 | 624.0 | 31738 |
| 10 | Chittoor | 340.0 | 15.1 | 2297.0 | 38210 |
| 11 | Kadapa | 167.0 | 7.2 | 999.0 | 22612 |
| 12 | Anantapur | 156.2 | 9.3 | 720.0 | 17890 |
| 13 | Kurnool | 120.7 | 6.7 | 211.0 | 12038 |
| | Total: | 3445 | 128.5 | 9797 | 287545 |

10 Mandal level trainings were organized and five crop cutting experiments per mandal were conducted in all major crops during 2014-15 to create awareness among farmers on micronutrient deficiencies. The CC experiments organized have shown significant increase in yields of about 5-12% were recorded over non applied fields.

During the year 2014-15 the scheme was implemented from Rabi only. The Govt. has provided an amount of Rs.87.49 crores in BEs 2014-15. But in most of the districts mostly pulses being grown in Rice fallows and Maize is sown under zero tillage condition during Rabi wherein basal application of the micronutrients was difficult. Also the farmers (mostly tenant farmers) were reluctant to put extra input cost which they feel highly uneconomical for them. So BRO request was placed for Rs.4809.84 lakhs based on revised targets. Govt. has released an amount of Rs.4599.84 Lakhs of which Rs. 4571.18 Lakhs was utilized.

Releases & Expenditure incurred under Integrated Nutrient Management Scheme during 2014-15

(Rs. in Lakhs)

| District | Head of account | Sub Head | Releases | Expenditure incurred |
|---------------------------------|--------------------------------------|-----------------|-----------------|-----------------------------|
| AAO(Cash), O/o C&DA, AP, Hyd | 2401-00-800-OE -11- NSP -07-WM | 330 subsidies | 3533.31 | 3533.31 |
| | | 500/503 OE | 431.94 | 431.93 |
| | | 300-OCS | 112.50 | 112.50 |
| | 2401-00-789 SCSP-11- NSP -04-INM | 330 subsidies | 285.18 | 285.18 |
| | | 500/503 OE | 86.40 | 71.62 |
| | 2401-00-796-TASP-11- NSP -60- INM | 330 subsidies | 121.35 | 121.35 |
| | | 500/503 OE | 29.16 | 18.29 |
| | Total | | | 4599.84 |

SEEDS

General Seed distribution:-

During 2014-15 for implementation of various Central and State schemes under the component of "Supply of seeds to farmers", a total quantity of 544178.55 qtls of various crop seeds were distributed on subsidy with a subsidy amount of Rs. 7679.46 Lakhs.

The details of subsidy seed distribution is given below:

(Qty in Qtls & Subsidy in Rs Lakhs.)

| Kharif 2014 | | Contingency Kharif 2014 | | Rabi 2014-15 | | Total | |
|-------------|-----------|-------------------------|-----------|--------------|-----------|-----------|-----------|
| Physical | Financial | Physical | Financial | Physical | Financial | Physical | Financial |
| 419674.23 | 5423.78 | 15879.24 | 359.31 | 108625.08 | 1896.35 | 544178.55 | 7679.44 |

District wise and crop wise subsidy seed distribution details are furnished in Annexure I (cropwise) & II (District wise) respectively.

Annexure I Subsidy seed distribution 2014-15

Qty in Qtls & Subsidy in Rs lakhs

| S. No | Crop | Kharif-2014 | | Rabi-2014-15 | | Total 2014-15 | |
|-------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Distribution | Subsidy value | Distribution | Subsidy value | Distribution | Subsidy value |
| 1 | Groudnut | 196742 | 3197 | 20400 | 408 | 217142 | 3605 |
| 2 | Soybean | 66 | 2 | 0 | 0 | 66 | 2 |
| 3 | Paddy (NFSM) | 146485 | 756 | 5164 | 52 | 151649 | 808 |
| 4 | Redgram | 6297 | 123 | 0 | 0 | 6297 | 123 |
| 5 | Greengram | 1811 | 53 | 7330 | 214 | 9140 | 267 |
| 6 | Blackgram | 3623 | 89 | 15873 | 434 | 19496 | 523 |
| 7 | Bengal gram | 0 | 0 | 58024 | 735 | 58024 | 735 |
| 8 | Jowar | 1177 | 24 | 0 | 0 | 1177 | 24 |
| 9 | Maize | 1326 | 33 | 5 | 0 | 1331 | 33 |
| 10 | Fodder Jowar | 0 | | 0 | 0 | 0 | 0 |
| 11 | Bajra | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | Ragi | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | Korra | 113 | 1 | 0 | 0 | 113 | 1 |
| 14 | Horse gram | 8927 | 199 | 0 | 0 | 8927 | 199 |
| 15 | Cowpea | 1390 | 40 | 1500 | 43 | 2890 | 83 |
| 16 | SunFlower | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Sesamum | 4 | 0 | 127 | 5 | 131 | 5 |
| 18 | Castor | 5 | 0 | 0 | 0 | 5 | 0 |
| 19 | Green Manure | 67588 | 1266 | 203 | 5 | 67791 | 1271 |
| 20 | Guar gum | 0 | 0 | 0 | 0 | 0 | 0 |
| | Grand Total | 435553 | 5783 | 108625 | 1896 | 544179 | 7679 |

Annexure II
Subsidy seed distribution 2014-15

Qty in Qtls & Subsidy in Rs lakhs

| S. No | District | Kharif-2014 | | Contingency | | Rabi-2014-15 | | Total 2014-15 | |
|-------|---------------|---------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|
| | | Distribution | Subsidy value | Distribution | Subsidy value | Distribution | Subsidy value | Distribution | Subsidy value |
| 1 | Srikakulam | 38647 | 216 | 0 | 0 | 7377 | 137 | 46024 | 354 |
| 2 | Vizianagaram | 39949 | 236 | 311 | 5 | 4835 | 87 | 45095 | 328 |
| 3 | Visakhapatnam | 15222 | 89 | 284 | 3 | 2250 | 38 | 17756 | 131 |
| 4 | East Godavari | 558 | 14 | 1106 | 28 | 1055 | 29 | 2718 | 71 |
| 5 | West Godavari | 4482 | 83 | 1001 | 25 | 1037 | 30 | 6520 | 138 |
| 6 | Krishna | 21120 | 267 | 937 | 16 | 7114 | 198 | 29171 | 481 |
| 7 | Guntur | 26119 | 270 | 0 | 0 | 9669 | 215 | 35788 | 485 |
| 8 | Prakasam | 4732 | 100 | 0 | 0 | 15358 | 266 | 20090 | 367 |
| 9 | Nellore | 46067 | 523 | 0 | 0 | 3746 | 73 | 49813 | 596 |
| 10 | Kadapa | 16283 | 236 | 1482 | 39 | 28599 | 406 | 46364 | 681 |
| 11 | Kurnool | 9867 | 170 | 0 | 0 | 9589 | 122 | 19456 | 292 |
| 12 | Anantapuramu | 149825 | 2421 | 6905 | 158 | 11066 | 156 | 167796 | 2735 |
| 13 | Chittoor | 46803 | 798 | 3853 | 86 | 6930 | 139 | 57586 | 1022 |
| | Total | 419674 | 5424 | 15879 | 359 | 108625 | 1896 | 544179 | 7679 |

SEED VILLAGE SCHEME

The Seed Village scheme ensures supply of quality certified seed of notified varieties to the farmers in time at their places at affordable prices besides ensuring quick multiplication of new seed varieties in a shorter time in that mandal /district based on the crop situation.

Compact area approach needs to be followed under this scheme. The number of farmers for a unit of 10 ha. may be minimum of 25 and also subject to a maximum of 150.

Mode of implementation:

- Supply of Foundation seed on 50% subsidy for cereals and 60% subsidy for oilseeds and Groundnut.
- Trainings: 3 one day trainings will be conducted to the farmers on seed production technology.

Achievements during kharif 2014:

- A quantity of 21,671.5 Qtls. of Foundation Seed was distributed for implementation of Seed Village in 25390 ha. The No. of units grounded are 2539 covering 63475 farmers.
- The crops covered under this Programme are Paddy, Red gram, Greengram, Black gram, Groundnut & Mesta.
- The certified seed production is 8.51 lakh qtls.

Rabi 2014-15:

- An area of 18,760 ha. was covered by utilizing 19,025.5 qtls. of foundation/certified seed-1 during Rabi 2014-15 covering 46900 farmers.
- The crops covered are Paddy, Redgram, Green gram, Blackgram, Bengal gram and Groundnut.
- The Certified seed production is 3.78 lakh qtls.

Budget Releases & Expenditure:

I. Budget revalidated by GoI

- a) Unspent amount of 2013-14 : Rs.697.41 lakhs.
- b) Amount released under SC Component : Rs. 131.00 lakhs
- c) Amount released under ST Component : Rs. 66.00 lakhs

- Total Budget revalidated (a) : **Rs.697.41 lakhs.**
- Budget released during 2014-15(a+b+c) : **Rs. 894.41 lakhs**
- Total Expenditure committed : **Rs.1296.79 lakhs.**

Note: Rs. 624.00 lakhs was released by GOI under Gen. Component but BRO was not issued.

Physical:

| S. No. | Component | Unit | Target | | | | Achievement | | | |
|--------|---|------|--------|----------------------|-------|-------|-------------|------|-------|-------|
| | | | Gen. | SCP | TSP | Total | Gen. | SCP | TSP | Total |
| | | | 1 | 50% subsidy on Seed. | Qtls. | 32694 | 6882 | 3441 | 43017 | 30932 |
| 2 | Trainings@ Rs. 15,000/- per 100 farmers | Nos | 1742 | 366 | 183 | 2291 | 1679 | 353 | 176 | 2208 |

Financial:**(In Rs.lakhs)**

| S. No. | Component | Releases | | | | Expenditure | | | |
|--------|----------------------------------|----------|--------|-------|--------|---|-----|-----|-------|
| | | Gen. | SCP | TSP | Total | Gen. | SCP | TSP | Total |
| 1 | 50% subsidy on Seed. | 199.04 | 257.41 | 66.00 | 522.45 | Rs.652.81 lakhs actual expenditure under all categories. The budget was not fully utilized as Rs.197 lakhs was released on March,31st | | | |
| 2 | Trainings @ Rs.15,000/- per unit | 272.37 | 84.59 | 15.00 | 371.96 | | | | |
| | Total | 471.41 | 342.00 | 81.00 | 894.41 | | | | |

STATE SEED FARMS

There are 17 State Seed Farms under the control of Department of Agriculture.

The main objective of the State Seed Farms is production of Foundation Seed duly obtaining Breeder seed from Research Stations of ANGRAU. The Foundation seed produced is being utilized for organization of Seed Village Scheme.

Achievements during 2014-15:

Kharif- 2014:

During the Kharif season, cropping programme was implemented in the 14 State Seed Farms in extent of 262.46 ha and 8429.00 qtls of Foundation seed produced. In the State Seed Farms, Chinnapavani (Prakasam) Amaravati (Guntur), and S.Uppalapadu (YSR Kadapa) no cropping programme was implemented during Kharif-2014 as they are rainfed.

Rabi 2014-15:

Cropping programme was taken up in 12 farms out of 17 seed Farms. In Ghantasala state Seed Farm, due to late season, Paddy fallow Pulses seed production was not taken up. In State Seed Farms, Chinnapavani, PDDF Yemmiganoor and FTC Nandyal due to non availability of water source cropping programme was not taken up during Rabi season. An extent of 255.00 ha was covered and 5885.00 qtls of Foundation seed produced.

Seed production particulars during 2014-15

| S. No. | Season | Extent in ha | B/seed utilized in qtls | F/ seed Production in qtls |
|--------|--------------|---------------|-------------------------|----------------------------|
| 1 | Kharif-14 | 262.50 | 175.65 | 8409.00 |
| 2 | Rabi-14-15 | 255.00 | 192.00 | 5885.00 |
| | Total | 517.50 | 367.65 | 14294.00 |

Foundation seed production in the State Seed Farms in Andhra Pradesh during Kharif-2014

Extent in Ha & Production in qtls

| S.No | Farm | District | Paddy | | Redgram | | Greengram | | Groundnut | | Total | |
|------|-------------------|--------------------|---------------|----------------|--------------|---------------|-------------|-------------|-------------|--------------|---------------|----------------|
| | | | Area | Yields | Area | Yields | Area | Yields | Area | Yields | Area | Yields |
| 1 | Peddapeta | Srikakulam | 25.00 | 520.50 | | | | | | | 25.00 | 520.50 |
| 2 | Samalkot | East Godavari | 12.00 | 600.00 | | | | | | | 12.00 | 600.00 |
| 3 | Undi | West Godavari | 8.00 | 300.00 | | | | | | | 8.00 | 300.00 |
| 4 | Kovvali | West Godavari | 33.80 | 1405.00 | | | | | | | 33.80 | 1405.00 |
| 5 | Chintalapudi | West Godavari | | | | | 8.00 | 8.00 | | | 8.00 | 8.00 |
| 6 | Ghantasala | Krishna | 6.16 | 220.00 | | | | | | | 6.16 | 220.00 |
| 7 | Guntur | Amaravathi | | | | | 0.00 | | | | 0.00 | 0.00 |
| 8 | Chinnapavani | Prakasam | | | | | | | | | 0.00 | 0.00 |
| 9 | Thangadencha | Kurnool | 30.00 | 1172.00 | 34.00 | 79.00 | | | | | 64.00 | 1251.00 |
| 10 | Edurur | Kurnool | 10.00 | 200.00 | | | | | | | 10.00 | 200.00 |
| 11 | PDDF, Yemmiganoor | Kurnool | 22.00 | 1216.00 | | | | | | | 22.00 | 1216.00 |
| 12 | FTC, Nandyal | Kurnool | 3.50 | 192.00 | | | | | | | 3.50 | 192.00 |
| 13 | PDDF Kanekal | Ananthapur | 27.00 | 1000.00 | | | | | | | 27.00 | 1000.00 |
| 14 | SMF, Kanekal | Ananthapur | 29.00 | 1200.00 | | | | | | | 29.00 | 1200.00 |
| 15 | S.Uppalapadu | Kadapa | | | | | | | | | 0.00 | 0.00 |
| 16 | MD Mangalam | Chittoor | | | | | | | 4.00 | 33.00 | 4.00 | 33.00 |
| 17 | Nagalapuram | Chittoor | 6.00 | 261.00 | 4.00 | 23.00 | | | | | 10.00 | 284.00 |
| | | Grand Total | 212.46 | 8286.50 | 38.00 | 102.00 | 8.00 | 8.00 | 4.00 | 33.00 | 262.46 | 8429.50 |

Foundation seed production in the State Seed Farms in Andhra Pradesh during Rabi-2014-15
Extent in Ha & Production in qtls

| S. No | Farm | District | Paddy | | Bengalgram | | Blackgram | | Groundnut | | Sesamum | | Total | |
|-------|-------------------|--------------------|--------------|----------------|---------------|----------------|-------------|--------------|-------------|--------------|-------------|--------------|---------------|----------------|
| | | | Area | Yields | Area | Yields | Area | Yields | Area | Yields | Area | Yields | Area | Yields |
| 1 | Peddapeta | Srikakulam | | | | | | | | | | | 0.00 | 0.00 |
| 2 | Samalkot | East Godavari | 12.00 | 642.00 | | | | | | | | | 12.00 | 642.00 |
| 3 | Undi | West Godavari | 8.00 | 360.00 | | | | | | | | | 8.00 | 360.00 |
| 4 | Kovvali | West Godavari | 33.80 | 1788.00 | | | | | | | | | 33.80 | 1788.00 |
| 5 | Chintalapudi | West Godavari | | | | | | | | | 3.00 | 14.00 | 3.00 | 14.00 |
| 6 | Ghantasala | Krishna | | | | | | | | | | | 0.00 | 0.00 |
| 7 | Amaravathi | Guntur | | | 33.20 | 210.00 | | | | | | | 33.20 | 210.00 |
| 8 | Chinnapavani | Prakasam | | | | | | | | | | | 0.00 | 0.00 |
| 9 | Thangadencha | Kurnool | | | 130.00 | 1744.00 | | | | | | | 130.00 | 1744.00 |
| 10 | Edurur | Kurnool | | | 6.00 | 60.00 | | | | | | | 6.00 | 60.00 |
| 11 | PDDF, Yemmiganoor | Kurnool | | | | | | | | | | | 0.00 | 0.00 |
| 12 | FTC, Nandyal | Kurnool | | | | | | | | | | | 0.00 | 0.00 |
| 13 | PDDF Kanekal | Ananthapuramu | | | | | | | | | | | 0.00 | 0.00 |
| 14 | SMF, Kanekal | Ananthapuramu | 8.00 | 850.00 | | | | | | | | | 8.00 | 850.00 |
| 15 | S.Uppalapadu | Kadapa | | | 10.00 | 45.00 | | | | | | | 10.00 | 45.00 |
| 16 | Mahadevamangalam | Chittoor | | | | | | | 3.00 | 48.00 | | | 3.00 | 48.00 |
| 17 | Nagalapuram | Chittoor | 2.00 | 90.00 | | | 6.00 | 34.00 | | | | | 8.00 | 124.00 |
| | | Grand Total | 63.80 | 3730.00 | 179.20 | 2059.00 | 6.00 | 34.00 | 3.00 | 48.00 | 3.00 | 14.00 | 255.00 | 5885.00 |

Cropping programme during 2014-15 in the State Seed Farms

Extent in ha & Qty in qtls

| S.No | Crop | Kharif-2014 | | | Rabi-2014-15 | | | Total | | |
|------|--------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|-----------------|
| | | Area | B/S | Yield | Area | B/S | Yield | Area | Seed reqd | Yield |
| 1 | Paddy | 212.50 | 159.35 | 8266.50 | 63.80 | 47.85 | 3730.00 | 276.30 | 207.20 | 11996.50 |
| 2 | Redgram | 38 | 4.5 | 102.00 | 0.00 | 0.00 | 0.00 | 38.00 | 4.50 | 102.00 |
| 3 | Greengram | 8.00 | 1.60 | 8.00 | 0.00 | 0.00 | 0.00 | 8.00 | 1.60 | 8.00 |
| 4 | Bengalgram | 0.00 | 0.00 | 0.00 | 179.20 | 134.50 | 2059.00 | 179.20 | 134.50 | 2059.00 |
| 5 | Blackgram | 0.00 | 0.00 | 0.00 | 6.00 | 1.50 | 34.00 | 6.00 | 1.50 | 34.00 |
| 6 | Groundnut | 4.00 | 10.20 | 33.00 | 3.00 | 8.00 | 48.00 | 7.00 | 18.20 | 81.00 |
| 7 | Sesamum | 0.00 | 0 | 0.00 | 3.00 | 0.15 | 14.00 | 3.00 | 0.15 | 14.00 |
| | Total | 262.50 | 175.65 | 8409.50 | 255.00 | 192.00 | 5885.00 | 517.50 | 367.65 | 14294.50 |

SEED REGULATION

- Against the focused target of 7535 seed samples for the year 2014-15, 7532 seed samples were drawn and analyzed and results were communicated achieving 99% of target allotted, out of which 342 samples were declared as not conforming to the prescribed standards (**Annexure VII**).
- There are 38 Centralized seed licenses issued during the year 2014-15.
- Central squad teams were deputed in April and May well before commencement of season as special squad on Bt cotton. In addition to this internal district squads were deputed in all the districts. As such majority of dealer premises licensed and unauthorized premises were raided. Accordingly 1517 Quintals of seed was detained worth Rs. 260 lakhs and 11252 Quintals of seed was seized worth Rs. 673 lakhs and 63no.of 6A cases and 5 no.of criminal cases were booked on account of indulging in illegal seed business & others 5 number of licenses were cancelled / suspended.
- Pre-release Quality Assurance Programme was launched with a view to monitor the quality of Bt cotton at storage level before release into the market. In this programme, it is targeted to draw service samples not less than 20% of the total lots to curb the flow of non-Bt cotton seed in place of Bt. cotton. Accordingly 1120 Bt cotton samples were drawn out of which 73 samples were declared sub-standard.
- As a part of new guidelines issued, instead of restricting legal action to the particular district only, the particulars of seed lots declared not conforming to prescribed standards is communicated to all the district JDAs for uniform action in respect of seed lot and to draw samples and initiate action accordingly under law enforcement.
- Single Window Diagnostic Laboratories were established in 11 districts are taking up seed testing under service category in addition to the notified labs functioning at Yemmiganur, Kurnool district, Tadepalligudem, West Godavari district and DNA lab, Malakpet, Hyderabad. A total of 7532 seed samples were analysed in these labs.
- During Kharif 2014 a quantity of 35.49 lakh packets of cotton seed have been distributed in Districts for sale to farmers in AP.

Target and Achievement of Seed Samples for the Year 2014-15

| S.No. | Districts Allotted | Annual Target for all crops | Other than Cotton Samples Analyzed | Substandard (O.C.) | Annual Target for Cotton samples | Cotton samples Analyzed | Substandard (Cotton) |
|-------|--------------------|-----------------------------|------------------------------------|--------------------|----------------------------------|-------------------------|----------------------|
| 1 | Srikakulam | 260 | 240 | 11 | 20 | 14 | 1 |
| 2 | Vizianagaram | 290 | 270 | 11 | 10 | 8 | 0 |
| 3 | Visakhapatnam | 270 | 270 | 21 | 0 | 0 | 0 |
| 4 | E. Godavari | 660 | 648 | 21 | 10 | 10 | 0 |
| 5 | W.Godavari | 510 | 477 | 4 | 5 | 4 | 0 |
| 6 | Guntur | 1200 | 705 | 51 | 490 | 496 | 32 |
| 7 | Krishna | 650 | 646 | 22 | 50 | 48 | 4 |
| 8 | Prakasam | 500 | 307 | 27 | 195 | 193 | 15 |
| 9 | Nellore | 340 | 332 | 10 | 12 | 12 | 1 |
| 10 | Ananthapuramu | 905 | 899 | 32 | 6 | 6 | 0 |
| 11 | YSR Kadapa | 400 | 379 | 9 | 21 | 21 | 1 |
| 12 | Kurnool | 1200 | 890 | 40 | 300 | 306 | 18 |
| 13 | Chittoor | 350 | 350 | 10 | 1 | 1 | 1 |
| | Grand Total | 7535 | 6413 | 269 | 1120 | 1119 | 73 |

Seed Regulatory Activities in the State of Andhra Pradesh during 2014-15

| S.No | Name of the District | Crop | Quantity detained in Quintals | Value (Rs. In Lakhs) | Quantity Seized (Qtls) | Value (Rs in Lakhs) | Persons arrested | Cases Booked | | Licenses Cancelled/ suspended |
|------|----------------------|-------------------------|-------------------------------|----------------------|------------------------|---------------------|------------------|--------------|---------------|-------------------------------|
| | | | | | | | | 6A | Criminal case | |
| 1 | Srikakulam | paddy & others | 86.55 | 14.79 | 0 | 0 | | 0 | | |
| 2 | Vizianagaram | paddy & others | 1234.30 | 225 | 1234 | 225 | | 2 | | |
| 3 | Visakhapatnam | Paddy | 0.00 | 0.00 | 0 | 0 | | 0 | | |
| 4 | East Godavari | Paddy | 0.00 | 0.00 | 3739 | 92 | | 3 | | |
| 5 | West Godavari | Paddy | | | 789 | 18 | | 1 | 2 | |
| 6 | Krishna | Paddy & Cotton | 0.00 | 0.00 | 372 | 9 | | 6 | | 5 |
| 7 | Guntur | Paddy , Cotton & others | 0.00 | 0 | 3270 | 117 | | 29 | 2 | |
| 8 | Prakasam | Paddy & Cotton | 12.01 | 18.39 | 0 | 0 | | 0 | | |
| 9 | Nellore | | 0.00 | 0.00 | 0 | 0 | | 0 | | |
| 10 | Kurnool | Paddy | 184.5 | 2.07 | 63 | 57 | | 7 | | |
| 11 | Ananthapuramu | Paddy | 0 | 0 | 652 | 76 | | 3 | | |
| 12 | Kadapa | Paddy | 0 | 0 | 1100 | 58 | | 3 | 1 | |
| 13 | Chittoor | Paddy | 0 | 0 | 33 | 19 | | 9 | | |
| | Grand Total | | 1517.36 | 260.25 | 11252.00 | 673 | | 63 | 5 | 5 |

FERTILIZERS

Fertilizer Plan and Supplies:

37.25 LMT of fertilizers consumed against the plan of 42.76 LMT during the year 2014-15. Compared to the Fertilizer consumption during 2013-14 there is a quantity of 86496 MTs less consumed during 2014-15 and saved an amount of 211.11 Crores of Rupees as subsidy. The Fertilizer consumption district wise product wise and season wise as follows.

| Year | 2014 | | | | | | |
|--------------------|-----------------|-----------------|---------------|-----------------|-------------------|---------------|------------------|
| Season | Kharif | | | | | | |
| Districts | UREA-Qty | D.A.P-Qty | S.S.P-Qty | M.O.P-Qty | Total complex-Qty | Others | Total Fert |
| Srikakulam | 42,544 | 12,236 | 2,128 | 7,423 | 6,266 | 0 | 70,597 |
| Vizianagaram | 34,641 | 7,098 | 3,001 | 6,397 | 7,929 | 0 | 59,066 |
| Visakhapatnam | 32,326 | 2,867 | 3,506 | 4,575 | 13,753 | 2,816 | 59,843 |
| East Godavari | 64,052 | 4,924 | 8,150 | 18,828 | 19,128 | 2,286 | 1,17,367 |
| West Godavari | 86,524 | 5,038 | 18,572 | 28,515 | 36,167 | 11,289 | 1,86,105 |
| Krishna | 89,999 | 7,198 | 18,982 | 17,028 | 77,409 | 4,031 | 2,14,647 |
| Guntur | 88,458 | 20,568 | 9,232 | 10,142 | 56,857 | 2,146 | 1,87,404 |
| Prakasam | 33,706 | 6,474 | 13,145 | 3,714 | 17,282 | 6,766 | 81,088 |
| Nellore | 41,157 | 5,535 | 5,215 | 7,359 | 8,125 | 1,297 | 68,688 |
| Kurnool | 89,429 | 24,293 | 5,491 | 16,404 | 1,52,958 | 2,372 | 2,90,947 |
| Anantapur | 32,121 | 5,906 | 4,815 | 8,434 | 28,170 | 612 | 80,058 |
| Kadapa | 19,893 | 2,913 | 3,482 | 4,249 | 18,407 | 358 | 49,301 |
| Chittoor | 24,032 | 2,548 | 1,799 | 3,586 | 10,332 | 667 | 42,965 |
| Grand Total | 6,78,882 | 1,07,597 | 97,519 | 1,36,654 | 4,52,784 | 34,640 | 15,08,075 |

| Year | 2014-15 | | | | | | |
|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|---------------|------------------|
| Season | Rabi | | | | | | |
| Districts | UREA-Qty | D.A.P-Qty | S.S.P-Qty | M.O.P-Qty | Total complex-Qty | Others | Total Fert |
| Srikakulam | 24,212 | 3,516 | 2,319 | 4,332 | 3,540 | 0 | 37,918 |
| Vizianagaram | 23,072 | 3,296 | 2,661 | 3,741 | 4,591 | 0 | 37,360 |
| Visakhapatnam | 14,125 | 1,323 | 837 | 1,026 | 957 | 0 | 18,269 |
| East Godavari | 1,09,040 | 18,707 | 8,667 | 21,192 | 60,624 | 1,229 | 2,19,458 |
| West Godavari | 1,38,937 | 26,758 | 32,493 | 34,229 | 1,19,195 | 13,422 | 3,65,035 |
| Krishna | 1,04,751 | 17,574 | 16,319 | 20,052 | 88,360 | 6,050 | 2,53,105 |
| Guntur | 1,82,127 | 28,785 | 5,493 | 12,848 | 1,37,890 | 3,271 | 3,70,414 |
| Prakasam | 82,561 | 21,377 | 8,167 | 8,121 | 76,671 | 11,553 | 2,08,450 |
| Nellore | 1,11,424 | 19,987 | 8,028 | 15,518 | 59,846 | 5,003 | 2,19,806 |
| Kurnool | 94,011 | 18,315 | 3,187 | 12,711 | 1,21,108 | 2,891 | 2,52,223 |
| Anantapur | 34,560 | 7,616 | 6,900 | 3,490 | 34,069 | 226 | 86,861 |
| Kadapa | 40,693 | 2,892 | 2,832 | 4,913 | 29,061 | 64 | 80,454 |
| Chittoor | 36,328 | 4,681 | 2,379 | 4,422 | 19,889 | 140 | 67,839 |
| Grand Total | 9,95,840 | 1,74,825 | 1,00,282 | 1,46,596 | 7,55,800 | 43,850 | 22,17,193 |

Year 2014-15
Season (All)

| Districts | UREA- Qty | D.A.P- Qty | S.S.P- Qty | M.O.P- Qty | Total complex- Qty | Others | Total Fert |
|--------------------|------------------|-----------------|-----------------|-----------------|--------------------------|---------------|------------------|
| Srikakulam | 66,755 | 15,752 | 4,447 | 11,756 | 9,806 | 0 | 1,08,515 |
| Vizianagaram | 57,712 | 10,393 | 5,663 | 10,138 | 12,520 | 0 | 96,426 |
| Visakhapatnam | 46,451 | 4,190 | 4,343 | 5,601 | 14,710 | 2,816 | 78,112 |
| East Godavari | 1,73,092 | 23,630 | 16,817 | 40,020 | 79,752 | 3,515 | 3,36,826 |
| West Godavari | 2,25,462 | 31,795 | 51,065 | 62,744 | 1,55,362 | 24,711 | 5,51,139 |
| Krishna | 1,94,749 | 24,772 | 35,302 | 37,080 | 1,65,769 | 10,082 | 4,67,752 |
| Guntur | 2,70,585 | 49,353 | 14,725 | 22,990 | 1,94,747 | 5,417 | 5,57,817 |
| Prakasam | 1,16,268 | 27,851 | 21,312 | 11,836 | 93,953 | 18,319 | 2,89,539 |
| Nellore | 1,52,581 | 25,521 | 13,243 | 22,878 | 67,971 | 6,300 | 2,88,494 |
| Kurnool | 1,83,440 | 42,608 | 8,678 | 29,115 | 2,74,066 | 5,263 | 5,43,170 |
| Anantapur | 66,681 | 13,522 | 11,716 | 11,924 | 62,239 | 838 | 1,66,919 |
| Kadapa | 60,586 | 5,804 | 6,313 | 9,162 | 47,468 | 422 | 1,29,756 |
| Chittoor | 60,360 | 7,229 | 4,179 | 8,007 | 30,221 | 807 | 1,10,804 |
| Grand Total | 16,74,722 | 2,82,422 | 1,97,802 | 2,83,249 | 12,08,584 | 78,490 | 37,25,268 |

Buffer maintenance by AP Markfed

The State Govt designated the APMarkfed as state nodal agency to maintain Fertilizer buffers to meet the immediate requirement during peak season or if any lag in supply. During the year 2014-15, AP MARKFED as Nodal Agency was directed to maintain 4.00 LMT (2.00 LMT urea + 1.00 LMT DAP + 1.00 LMT complexes) of fertilizer buffers during Kharif 2014 and 1.95 LMT (1.00 LMT urea + 0.425 LMT DAP + 0.525 LMT complexes) of fertilizer buffers during Rabi 2014-15 in the state.

FERTILIZER QUALITY CONTROL

There are (3) Fertilizer Quality Control Laboratories in the State of Andhra Pradesh, each with an annual capacity of 3500 Fertilizer samples per each laboratory. All the three laboratories i.e., Tadepalligudem, Bapatla and Ananthapuramu labs have been provided with all the latest equipment including Atomic Absorption Spectrophotometer (AAS) for analyzing of all categories of fertilizers.

Objective of the Scheme:

The main objective of the scheme is to maintain the Quality Control of chemical fertilizers. The fertilizer samples drawn by the Fertilizer Inspectors are sent to Fertilizer Coding Centre, Hyderabad and Coding Centre will in turn send to the laboratory for analysis to confirm the guaranteed percentage of nutrient composition and other specifications of the sample as per FCO, 1985 apart from this the laboratories are also analyzing the departmental samples, (service samples sent by A.D.As, AOs which are to be distributed under subsidy schemes. Further this laboratory is also analyzing referee samples private money paid samples and farmers request samples if any, received.

Targets and Achievements:

A target of 8694 fertilizer samples was fixed to the districts based on number of manufacturers, fertilizer outlets, normal area and consumption of fertilizers. Out of the total target of 8694 samples to be drawn by the fertilizer Inspectors, 9701 samples were drawn out of which 167 samples were declared non-standard. The action on non-standards is taken by the concerned notified authorities.

District wise fertilizer targets, Achievements and Non-standards during 2014-15

| S. No. | District | Yearly Target | Received Samples | Non_stds |
|--------------|---------------|---------------|------------------|------------|
| 1 | Srikakulam | 237 | 187 | 6 |
| 2 | Vizianagaram | 227 | 199 | 2 |
| 3 | Vishakapatnam | 181 | 527 | 7 |
| 4 | East Godavari | 800 | 961 | 29 |
| 5 | West Godavari | 1283 | 1667 | 16 |
| 6 | Krishna | 1216 | 1242 | 20 |
| 7 | Guntur | 1320 | 1379 | 21 |
| 8 | Prakasam | 694 | 727 | 13 |
| 9 | Nellore | 605 | 603 | 16 |
| 10 | Kurnool | 1094 | 1082 | 1 |
| 11 | Anantapur | 408 | 490 | 8 |
| 12 | Kadapa | 384 | 389 | 10 |
| 13 | Chittoor | 245 | 248 | 0 |
| Total | | 8694 | 9701 | 167 |

PLANT PROTECTION

Rodent Control Programme:

During the year 2014-15, Rodent Control Programme was implemented in an area of 9.99 lakh ha incurring an expenditure of Rs.107.60 lakhs to prevent yield loss in paddy crop due to rodents infestation and to produce good quality paddy grain. This programme was implemented in five districts of East Godavari, West Godavari, Krishna, Guntur and SPSR Nellore in the state. Total quantity of 9716.29 kg of Bromodialone chemical (0.25%CB) distributed to the paddy growing farmers in the above five districts @ 10 gm per ha.

Status for Rodent control programme during 2014-15

(Physical in Lakh No. & Financial Rs. in Lakh)

| S. No. | District | Target | | Achievement | |
|--------|---------------------|-------------|---------------|-------------|---------------|
| | | Physical | Financial | Physical | Financial |
| 1 | East Godavari | 2.43 | 26.90 | 2.43 | 26.9 |
| 2 | West Godavari | 2.06 | 20.60 | 2.06 | 20.60 |
| 3 | Krishna | 2.32 | 25.80 | 2.32 | 25.80 |
| 4 | Guntur | 1.67 | 17.50 | 1.67 | 17.50 |
| | Kharif Total | 8.48 | 90.80 | 8.48 | 90.80 |
| 1 | SPS Nellore | 1.51 | 16.8 | 1.51 | 16.8 |
| | Rabi Total | 1.51 | 16.80 | 1.51 | 16.80 |
| | Grand Total | 9.99 | 107.60 | 9.99 | 107.60 |

Strengthening of Pesticide Testing Laboratories:

In order to ensure the supply of good quality pesticides to the farmers Five (5) Pesticide Testing Laboratories are working in the state. Total No. of 5173 pesticide and bio-pesticide samples (5162 pesticide and 11 bio-pesticide samples) have been analyzed during the year 2014-15. The total no. of pesticide samples declared substandard were 71 (68 pesticides and 3 bio-pesticides). The total budget utilized during 2014-15 is Rs. 70.00 Lakh as against release of Rs.70.00 lakhs.

Strengthening of PTLs during 2014-15

| S. No. | ADA (PTLs) | Physical (No. of pesticide & bio-pesticide samples) | | Financial (Rs. in lakhs) | |
|--------|----------------------------------|--|-------------|-----------------------------|--------------|
| | | Target | Achievement | Releases | Expenditure |
| 1 | Anantapur | 1600 | 1335 | 9.50 | 9.50 |
| 2 | Guntur | 1600 | 1496 | 2.26 | 2.26 |
| 3 | Kurnool | 800 | 820 | 12.50 | 12.50 |
| 4 | Visakhapatnam | 700 | 691 | 1.80 | 1.80 |
| 5 | Tadepalligudem, West Godavari | 800 | 673 | 37.94 | 37.94 |
| 6 | DDA(IA), PTL&Coding centre | 0 | 0 | 6.00 | 6.00 |
| | Total | 5500 | 5015 | 70.0 | 70.00 |

Coding Centre for Pesticides:

In order to maintain the secrecy of place of analysis of pesticide samples drawn by the Insecticide Inspectors of the State and to send samples to five Pesticide Testing Laboratories in the State. The ultimate objective of the Coding Centre is to ensure the supply of good quality pesticides to the farmers. During the year 2014-15, 5173 pesticide and bio-pesticide samples were processed through Coding Centre against the allotted target of 5294 samples. An amount of Rs 6.00 lakhs was released for the maintenance of the coding centre and the same was released.

| S. No. | District | Pesticides | | | Bio-Pesticides | | | Total samples drawn | % Achievement |
|--------------|---------------|---------------|-------------|-----------|----------------|-------------|----------|---------------------|---------------|
| | | Annual Target | Achievement | Misbrand | Annual Target | Achievement | Misbrand | | |
| 1 | Srikakulam | 105 | 74 | 0 | 5 | 0 | 0 | 74 | 67 |
| 2 | Vizianagaram | 95 | 48 | 2 | 5 | 0 | 0 | 48 | 48 |
| 3 | Visakhapatnam | 105 | 65 | 0 | 8 | 0 | 0 | 65 | 58 |
| 4 | East Godavari | 600 | 528 | 5 | 20 | 2 | 0 | 530 | 85 |
| 5 | West Godavari | 740 | 682 | 11 | 20 | 0 | 0 | 682 | 90 |
| 6 | Krishna | 620 | 559 | 3 | 20 | 2 | 1 | 561 | 88 |
| 7 | Guntur | 1130 | 1252 | 24 | 30 | 4 | 1 | 1256 | 108 |
| 8 | Prakasam | 390 | 394 | 7 | 10 | 1 | 1 | 395 | 99 |
| 9 | SPS Nellore | 260 | 163 | 1 | 8 | 1 | 0 | 164 | 61 |
| 10 | Kurnool | 540 | 629 | 4 | 25 | 1 | 0 | 630 | 112 |
| 11 | Anantapur | 280 | 293 | 5 | 10 | 0 | 0 | 293 | 101 |
| 12 | YSR Kadapa | 150 | 202 | 1 | 8 | 0 | 0 | 202 | 128 |
| 13 | Chittoor | 170 | 273 | 5 | 8 | 0 | 0 | 273 | 153 |
| Total | | 5185 | 5162 | 68 | 177 | 11 | 3 | 5173 | 96 |

POLAMBADI

Crop yields are not increasing as expected even though the cost of cultivation increased many folds due to indiscriminate use of inputs resulting in poor quality of produce leading to poor returns to the farmers.

The major constraints for production:

- Declining soil productivity and inappropriate / imbalanced nutrient use.
- Indiscriminate use of pesticides there by increased cost on crop protection.
- Poor water management resulting in low Water Use Efficiency (WUE) and soil salinity and alkalinity problems.
- Inadequate research and extension support to farmers.

Steps to increase the yield:

- Developing and using viable mechanisms to transfer latest technology and techniques from researchers to farmers and collect feedback to re-orient research on issues critical to farmers.
- Adopting integrated crop management techniques to increase the productivity and profitability of farmers.

Integrated crop Management is an approach to farming which aims to balance production with economic and environmental considerations by means of a combination of measures including crop rotation, cultivations, appropriate crop varieties and careful use of inputs.

ICP= INM+ IPM + Agronomic practices including farm mechanization.

The Integrated Crop Management includes

1. To improve soil fertility/nutrients through Integrated Nutrient Management.
2. Cost effective Weeds/Pests/Diseases management.
3. Adopting Water Management practices.
4. Following Post Harvest Technology.

All technologies and practices are included to help farmers to increase or maintain grain yields at same rate with reduced cost of cultivation and improving the quality will enhance farmers' profitability.

Farmers need adequate training and technical support to improve their decision-making capacity and properly utilize the new techniques.

Keeping in view of the above, Farmers Field School (Polambadi) were taken up during the year 2014-15 to reduce the cost of cultivation, increase the productivity, reduce the pesticide usage by adopting eco-friendly alternatives to pesticides and also creating awareness to farmers about the pesticide hazards.

Concept of Polambadi:

Empowering the farmers to take up economical decisions by adopting practices of Integrated Crop Management.

The four principles of Polambadi

- Grow a healthy crop
- Conserve natural enemies
- Conduct regular field observations
- Farmers become ICM experts

The Polambadi programme is being done from seed to seed, so that the participants can observe and analyze the dynamics of crop ecology across the season. Field observations will be done on any fixed day of the week.

Size of the Polambadi : 10 ha.
No. of Farmers : 30

Polambadi is in the crop field and study is being done in the field of one of the trainee participant farmers in about 2 acres. In this field the trainees will conduct simple experiments/validation trials such as comparison between ICM & Farmers practice, study on plant compensation and make observations for Agro-ecosystem Analysis in crop etc., and these are usually carried out by the group.

1. The training is fully field oriented, participatory and discovery based i.e., “*learning by doing*”.
2. The training aims at teaching science to the farmer in his fields.
3. Training curriculum is based on local needs. What is relevant and meaningful is decided by the farmers.

Polambadi learning field

| ICM | Field validation trails | Farmers practice |
|--------|-------------------------|------------------|
| ½ Acre | 1.00 Acre | ½ Acre |

During 2014-15 the Polambadi programme was organized as detailed below:

Overall 310 Nos of polambadi were organized during 2014-15 with an amount of Rs.25.77 lakhs.

Polambadi during the year 2014-15

District wise Targets and Achievements of Polambadi during-2014-15

| S. No. | District | Phy. Total Target | Fin. Target in lakhs | Phy. Ach | Fin. Ach in lakhs |
|--------|---------------|-------------------|----------------------|------------|-------------------|
| 1 | Srikakulam | 13 | 2.48 | 13 | 2.51082 |
| 2 | Vizianagaram | 15 | 2.57 | 15 | 2.93701 |
| 3 | Visakhapatnam | 8 | 1.6 | 8 | 1.13951 |
| 4 | East Godavari | 2 | 1.84 | 2 | 0.30828 |
| 5 | West Godavari | 8 | 2.38 | 8 | 1.2295 |
| 6 | Krishna | 8 | 1.72 | 8 | 0.57922 |
| 7 | Guntur | 2 | 1.61 | 2 | 0.23275 |
| 8 | Prakasam | 14 | 1.86 | 14 | 1.66271 |
| 9 | Nellore | 8 | 1.3 | 8 | 0.23914 |
| 10 | Kurnool | 62 | 5.85 | 62 | 5.18396 |
| 11 | Anantapur | 88 | 7.7 | 88 | 2.87429 |
| 12 | Kadapa | 42 | 4.26 | 42 | 4.68335 |
| 13 | Chittoor | 40 | 3.93 | 40 | 2.19132 |
| Total | | 310 | 39.1 | 310 | 25.77186 |

Chandranna Rythu Kshetralu (CRKs)

In Andhra Pradesh important crops like Paddy, Pulses, Coarse cereals, Oilseeds and Cotton are cultivated in considerable area. The production and productivity in majority of crops is below the possible potential. There is every need to motivate and sensitise the farmers regarding best management practices and the importance of location specific critical interventions for achieving enhanced productivity in different crops. In order to enhance the productivity of these crops, special programme involving grass root level extension functionaries and farmers is proposed to conduct **Chandranna Rythu Kshetralu**-(CRKS) on Farm demonstrations with latest technological interventions and by close monitoring of higher officials not only from the district but also from office of C&DA. The farmers will also be exposed to these interventions at different crop growth stages to realize the advantage of these interventions in enhancing the productivity. The achievable growth in terms of productivity per acre and also their performance in monitoring and controlling pests and other agronomic practices in each crop, will be fixed by the district JDAs keeping in view of the present status and definite possible increase in productivity. The concerned officers are personally responsible for implementation and achieving the targets.

Objective:

Chandranna Rythu Kshetram is the new on farm demonstration programme implemented in the farmers field itself to promote best agronomic and farm management practices for achieving **increase in productivity and Reducing Cost of cultivation**

CHANDRANNA RYTHU KSHETRALU (CRKS)-

These On Farm demonstrations were conducted in 10 ha each cluster for each of AEO at village level, MAO in Mandal and ADA(R) in Agriculture Division.

1. The villages for conducting **CRKS**- On Farm Demonstrations will be selected based on the major crops grown in their respective jurisdiction.
2. The MAO conducted **CRKS**-OFDs in the crop covering major area in the Mandal, similarly ADA(R) in Agriculture Division.
3. While identifying the cluster, care should be taken to cover maximum number of farmers and no farmer shall be allotted more than 2 ha. Involve progressive and interested farmers willing to participate.
4. For conducting **CRKS** OFDs, an amount of Rs.5000/ ha was provided as input subsidy as given below.
 - a) **Seed of best performing HYV 50% limited** to cost indicated below
(Paddy HYV - Rs.10/kg, Hybrid Rs.50 /kg; Pulses - Rs.25/kg,
Oilseeds – Rs.18/kg, coarse grains- HYV Rs.15/kg, Hybrids - Rs.50/kg)
 - b) Weedicides – Pre emergence and Post emergence –**Rs.1000/ha** limited to **Rs.500/per application**
 - c) PP Chemicals (2 Sprays) **Rs 500/spray** **Rs 1000/ha**

- d) Bio agents & Bio pesticides (**Two applications**) **Rs. 800/ha**
e) Micronutrients (Zn or B) **Rs.500/ha**
f) Gypsum **Rs.750/kg**
g) Conducting Field Day including crop cutting
Experiment, video recording and cost of field board **Rs.500/ha**

The total cost of composition of inputs as indicated above as per the choice of the interventions shall not exceed **Rs.5000/ha**.

1608 no of CRKs were conducted with a financial assistance of 404.10 lakhs against a target of 1883 no of CRKs with 941.50 lakhs during 2014-15.

| Districts wise Particulars of Chandranna Rythu Kshethram (CRKs) during 2014-15 | | | | | | | | | | | | | |
|---|---------------|-------------------|------------------|------------|------------|-----------|-----------|-----------|------------|-------------------------|--------------|-------------------------|---------------|
| Sl.No | District | Total Target (No) | Name of the Crop | | | | | | | | Total achvt. | Financial (Rs.in lakhs) | |
| | | | Paddy | Pulses | Ground Nut | Sunflower | Sesamum | Mustard | Maize | Coarse cereals & Others | | Targets | Achvt. |
| 1 | Chittoor | 170 | 34 | | 13 | 6 | 1 | | 3 | 4 | 61 | 85.0 | 4.00 |
| 2 | Srikakulam | 101 | 31 | 27 | 24 | 2 | | | 17 | | 101 | 50.5 | 11.79 |
| 3 | Nellore | 105 | 92 | | 10 | 2 | 1 | | | | 105 | 52.5 | 13.13 |
| 4 | Kadapa | 125 | 6 | 1 | 14 | 3 | 31 | | | | 55 | 62.5 | 15.75 |
| 5 | Vishakapatnam | 125 | 52 | 12 | 11 | 1 | 12 | | 12 | | 100 | 62.5 | 25.00 |
| 6 | Guntur | 198 | 69 | 83 | | | | | 34 | 5 | 191 | 99.0 | 40.17 |
| 7 | Krishna | 128 | 42 | 53 | | | 2 | | 15 | | 112 | 64.0 | 27.00 |
| 8 | East Godavari | 173 | 126 | 5 | 2 | | | | 13 | | 146 | 86.5 | 42.34 |
| 9 | West Godavari | 136 | 86 | 4 | 4 | | 1 | | 34 | | 129 | 68.0 | 36.98 |
| 10 | Vizianagaram | 120 | 37 | 16 | 7 | | | | 60 | | 120 | 60.0 | 33.97 |
| 11 | Ananthapur | 139 | 3 | | 122 | | | | 7 | | 132 | 69.5 | 39.90 |
| 12 | Prakasam | 147 | 53 | 66 | 4 | 8 | | 1 | 9 | 6 | 147 | 73.5 | 43.07 |
| 13 | Kurnool | 216 | 20 | 27 | 90 | 28 | | 11 | | 7 | 209 | 108.0 | 71.00 |
| Total | | 1883 | 651 | 294 | 301 | 50 | 48 | 12 | 230 | 22 | 1608 | 941.5 | 404.10 |

Districts wise Particulars of Chandranna Rythu Kshethram (CRKs) during 2014-15

(Physical in No. & Financial Rs.in lakhs)

| S. No | District | Phy | | Financial | |
|--------------|---------------|-------------|-------------|--------------|---------------|
| | | Target | Achievement | Targets | Achievement |
| 1 | Chittoor | 170 | 61 | 85.0 | 4.00 |
| 2 | Srikakulam | 101 | 101 | 50.5 | 11.79 |
| 3 | Nellore | 105 | 105 | 52.5 | 13.13 |
| 4 | Kadapa | 125 | 55 | 62.5 | 15.75 |
| 5 | Vishakapatnam | 125 | 100 | 62.5 | 25.00 |
| 6 | Guntur | 198 | 191 | 99.0 | 40.17 |
| 7 | Krishna | 128 | 112 | 64.0 | 27.00 |
| 8 | East Godavari | 173 | 146 | 86.5 | 42.34 |
| 9 | West Godavari | 136 | 129 | 68.0 | 36.98 |
| 10 | Vizianagaram | 120 | 120 | 60.0 | 33.97 |
| 11 | Ananthapur | 139 | 132 | 69.5 | 39.90 |
| 12 | Prakasam | 147 | 147 | 73.5 | 43.07 |
| 13 | Kurnool | 216 | 209 | 108.0 | 71.00 |
| Total | | 1883 | 1608 | 941.5 | 404.10 |

FARM MECHANIZATION

Farm Mechanisation has become one of the important inputs to reduce the cost of cultivation for major crops. Availability of mechanical power and improved equipment has enabled many farmers to achieve high levels of productivity.

Objectives:

The main objectives of Farm Mechanisation are :

- To complete farm operations on time.
- Reduction in cost of cultivation.
- Improvement in the quality of produce for better marketability.
- Efficient utilization of inputs.
- Reduction in drudgery to farmers.

Mechanisation in Farm operations for various crops:

In our state majority of the farming community are still lagging behind in the knowledge of latest developments in Mechanization of farm operations and in adopting modern farming technology. However, Farm Mechanization is gaining importance in the last five years for carrying out various farm activities effectively in less time and with less effort. This has resulted due to timeliness of field operations and achievement of reduction in the cost of cultivation and improvement in the quality of produce.

Depending on the types of crops grown, soil conditions, local situations and requirements in the Districts, various farm equipments are being made available on subsidy basis with subsidy limitation on certain equipment to accelerate the pace of Farm Mechanization in the state.

Qualitative equipments are being made available through the Department of Agriculture on subsidy by approved suppliers.

Farm equipment to do different operations from land preparation, sowing, plant protection, intercultivation, harvest, post harvest operations are available under subsidy.

Impact of the implementation of the Farm Mechanisation Scheme:

1. There is considerable increase in number of farmers coming forward to adopt modern machinery for field operations, as they can own improved farm implements at subsidized rates, which reduce their drudgery on the field.
2. There is increased awareness in the farmers and many of them have come forward to suggest for the manufacture of suitable implements as per their farm requirements.
3. The implementation of mechanization programme has improved the Farm Power of the State to 1.53 kw/Ha.
4. Impact on Revenue/Returns to the Farmers : On an average the net returns to the farmers have improved from 10 to 30% due to timely operations, saving of labour cost, saving in inputs like seed and fertilizers, good quality produce etc.,

Targets and Achievements during 2014-15:**A) Normal State Plan (NSP) :**

(Phy in No. & Fin Rs. in Lakhs)

| NSP | | | | | |
|---------------|------------------|---------------|-----------------|-------------------|-----------------|
| S. No. | Districts | Target | | Achivement | |
| | | Phy | Fin | Phy | Fin |
| 1 | Srikakulam | 10343 | 928.90 | 9502 | 923.76 |
| 2 | Vizianagaram | 10794 | 975.25 | 9259 | 947.27 |
| 3 | Visakhapatnam | 3030 | 517.14 | 1639 | 397.62 |
| 4 | East Godavari | 7561 | 1618.90 | 3053 | 1323.79 |
| 5 | West Godavari | 7690 | 1828.96 | 6330 | 1510.58 |
| 6 | Krishna | 11909 | 1236.30 | 7154 | 1035.92 |
| 7 | Guntur | 12083 | 1826.81 | 10748 | 1744.09 |
| 8 | Prakasam | 4685 | 635.50 | 3574 | 569.70 |
| 9 | Nellore | 9389 | 799.50 | 9416 | 713.80 |
| 10 | Kurnool | 10362 | 914.00 | 11858 | 766.42 |
| 11 | Ananthapur | 1052 | 462.00 | 2212 | 448.94 |
| 12 | Kadapa | 2985 | 591.71 | 2422 | 518.36 |
| 13 | Chittoor | 7814 | 925.50 | 8058 | 874.82 |
| Total | | 99697 | 13260.47 | 85225 | 11775.07 |

B) Sub Mission on agriculture Mechanization (SMAM) :

(Phy in No. & Fin Rs. in Lakhs)

| S. No. | Districts | Target | | Achivement | |
|---------------|------------------|---------------|----------------|-------------------|----------------|
| | | Phy | Fin | Phy | Fin |
| 1 | Srikakulam | 687 | 84.08 | 468 | 43.56 |
| 2 | Vizianagaram | 687 | 84.08 | 426 | 74.83 |
| 3 | Visakhapatnam | 663 | 69.40 | 61 | 46.40 |
| 4 | East Godavari | 731 | 135.15 | 753 | 130.52 |
| 5 | West Godavari | 956 | 147.32 | 790 | 133.36 |
| 6 | Krishna | 761 | 94.56 | 505 | 89.19 |
| 7 | Guntur | 1344 | 250.77 | 816 | 220.39 |
| 8 | Prakasam | 801 | 92.28 | 457 | 63.62 |
| 9 | Nellore | 631 | 85.43 | 684 | 80.63 |
| 10 | Kurnool | 735 | 76.83 | 661 | 69.75 |
| 11 | Ananthapur | 803 | 86.99 | 599 | 81.54 |
| 12 | Kadapa | 783 | 75.44 | 227 | 73.12 |
| 13 | Chittoor | 975 | 100.59 | 597 | 99.86 |
| Total | | 10557 | 1382.92 | 7044 | 1206.77 |

C) Rastriya Krishi Vikas Yojana (RKVY) :

(Phy in No. & Fin Rs. in Lakhs)

| S.No: | Districts | Target | | Achievement | |
|--------------|---------------|--------------|----------------|--------------|----------------|
| | | Phy | Fin | Phy | Fin |
| 1 | Srikakulam | 743 | 64.56 | 1132 | 36.48 |
| 2 | Vizianagaram | 766 | 122.16 | 44 | 77.57 |
| 3 | Visakhapatnam | 1020 | 53.46 | 17 | 5.32 |
| 4 | East Godavari | 705 | 288.96 | 576 | 263.37 |
| 5 | West Godavari | 1239 | 331.27 | 1674 | 257.51 |
| 6 | Krishna | 847 | 210.97 | 279 | 141.58 |
| 7 | Guntur | 1267 | 401.52 | 1297 | 374.96 |
| 8 | Prakasam | 850 | 222.71 | 387 | 155.32 |
| 9 | Nellore | 964 | 233.10 | 643 | 136.16 |
| 10 | Kurnool | 1418 | 171.91 | 2342 | 171.90 |
| 11 | Ananthapur | 806 | 215.01 | 1854 | 214.93 |
| 12 | Kadapa | 1178 | 225.13 | 2710 | 237.94 |
| 13 | Chittoor | 1965 | 268.47 | 3265 | 268.20 |
| Total | | 13768 | 2809.20 | 16220 | 2341.23 |

Budget Releases and expenditure during 2014-15:

(Phy in No. & Fin Rs. in Lakhs)

| Sl. No. | Scheme | Component | Budget Released | Bills already paid as on 31.03.2015 | Balance available as on 31.03.2015 |
|--------------------|-------------|--------------|-----------------|-------------------------------------|------------------------------------|
| 1 | NSP | General | 9954.00 | 8472.07 | 1481.93 |
| | | SCSP | 1826.00 | 2605.00 | (-)779.00 |
| | | TSP | 628.00 | 698.00 | (-) 70.00 |
| | | Total | 12408.00 | 11775.07 | 632.93 |
| 2 | SMAM | General | 1009.5 | 833.86 | 175.64 |
| | | SCSP | 262.75 | 318.75 | (-)56.00 |
| | | TSP | 110.63 | 54.17 | 56.46 |
| | | Total | 1382.92 | 1206.77 | 176.15 |
| 3 | RKVY | General | 2112.00 | 1689.96 | 422.04 |
| | | SCSP | 469.00 | 525.49 | (-)56.49 |
| | | TSP | 228.00 | 125.78 | 102.22 |
| | | Total | 2809.00 | 2341.23 | 467.77 |
| Grand Total | | | 16599.92 | 15323.07 | 1276.85 |

Note: Under NSP 3rd quarter budget was released in March, 2015 and budget restrictions were imposed by the State Government on all payments and the bills from 25th March were not accepted. Rs.632.93 lakhs worth bills are available for payment were not passed in March, 2015.

MEDIA PRODUCTION

The Media Production cell mainly deals with giving wide publicity, on various aspects of transfer of latest scientific agriculture technology by means of exhibitions, Videography, Tape Recorder VCDs, Radio, T.V and Press were utilized and printing of literature including publication of Vyavasaya Padipantalu monthly magazine and Quarterly Issue of WTO News Digest for quick mass communications and serving large-scale section of farming community.

Publicity:

It dealt with giving wide publicity on various agricultural aspects on the latest scientific technology by means of Advertisements, press notes through press and electronic media including immediate publication of rejoinders to adverse news

Two tableaux's were prepared and presented on Independence Day and Republic day celebrations duly highlighting the various departmental activities.

Agromet Advisory Bulletins containing important messages to farmers prepared by Agriculture Department and Indian Meteorological Department, Hyderabad on every Tuesday and Friday of the week and sent to All India Radio and Doordarshan for broadcast and telecast respectively.

All India Radio:

All India Radio stations in the state were broadcasted Agriculture Bulletins for which the scripts were provided by the Department of Agriculture on various departmental schemes and farm operations based on local crop conditions. All India Radio, Hyderabad convened Rural Programme Advisory Committee Meetings Quarterly to finalize topics for recording and broadcasting programmes on seasonal cropping pattern for which Department of Agriculture furnished proposals of suitable topics on Agriculture along with list of experts for giving Radio talks for broadcast in Farm & Home Programme.

Printing of Literature:

Printing of literature on schemes like Organic Farming Booklets and Posters, Action Plan Booklets, Outcome Budget, Soil Test Information sheets, Paper seal stickers of pesticides, Adarsha Rythu Diaries, Hand Book for farmers on different schemes of Central and State, Reports of Comptroller & Auditor General of India, etc., were done in during 2014-15.

Publications:

Vyavasaya Padipantalu Monthly Magazine:

The Vyavasaya Padi Pantalu Telugu Monthly Magazine has been printed every month during 2014-15 by the Department of Agriculture and distributed to farmers, Adarsha rythus etc., as per decision taken by the Government of Andhra Pradesh. Every month 1.00 lakh no. of copies were printed and distributed. The Magazine comprises 48 pages, all are in

multi colour including a district edition special supplement of 6 pages for 22 districts. The articles covered in the magazine are pertaining to the Agriculture and allied departments like Animal husbandry, Horticulture, Sericulture, Fisheries, Co-operative, Marketing, Irrigation, A.P Transco, AP Dairy Development Corporation, AP State Seed Development Corporation and A.P. Agros, etc.

“MASS MEDIA SUPPORT TO AGRICULTURE EXTENSION” – A Central Sector Scheme:

The Government of India (Ministry of Agriculture) in collaboration with Prasara Bharathi has formulated a Scheme ' Mass Media Support to Agriculture Extension'.

The scheme envisages utilizing existing infrastructure of Doordarshan (DD) and All India Radio (AIR) to produce and transmit programmes covering wide spectrum of topics in agriculture and allied fields for bringing latest information and knowledge to the farming community

In the state of Andhra Pradesh the Central Sector Scheme “Mass Media Support to Agriculture Extension” is being implemented through **Doordarshan & All India Radio, FM (Kisanvani stations).**

DOORDARSHAN:

Under this scheme, the Doordarshan Regional Kendra, Hyderabad and Narrowcasting stations at Vijayawada & Rajahmundry have telecasted the **following agricultural programmes:**

| Station | Name of the programme | Timings of the telecast | Days of telecast |
|--|-----------------------|---|-------------------------------|
| Doordarshan Regional Kendra, Hyderabad | Rythu Nestam | 6.25 PM to 6.55 PM | Monday, Wednesday Thursday |
| | | 6.00 PM to 7.00 PM Phone-in-Live Programme | Wednesday and Friday |
| Doordarshan Narrowcasting Station ,Vijayawada | Kisan | 6.00 PM to 6.25 PM | Monday to Friday |
| Doordarshan Narrowcasting station, Rajahmundry | Kisan | 6.00 PM to 6.25 PM | Monday to Friday |

Kisan programmes in Narrowcasting from Vijayawada and Rajahmundry cluster are repeated by Doordarshan Kendra, Hyderabad from Monday to Friday at 6.30 AM.

ALL INDIA RADIO (KISAN VANI STATIONS):

Agricultural programmes were broadcasted at 7.15 p.m to 7.45 p.m through (8) All India Radio, FM Kisan Vani stations located at Markapur (Prakasam), Anantapur, Kurnool, Tirupati (Chittoor), Warangal, Nizamabad, Kothagudem (Khammam) and Adilabad. All India Radio, Hyderabad broadcasted the programmes for 1 Hour 10 Minutes.

MONITORING & SUPPORT ACTIVITIES:

Monitoring:

As per the directions of Govt of India and G.O.Rt.No.695, Dt.15-7-2005 and GO Rt. No.1157, dt:18/9/08 issued by Govt of AP the implementation of the scheme is reviewed and necessary suggestions for effective implementation of are being given by the State Level Committee (SLC) formed at State level under the Chairmanship of Principal Secretary to Govt (A&C) and through District Level Committees(DLCs) formed at (9) districts viz., Krishna, Adilabad, Ananthapur, Chittoor, Prakasam, Khammam, Kurnool, Nizamabad and Warangal under the Chairmanship of respective district Collectors by meeting quarterly.

Technical Support:

A Technical Working Group (23 members) comprising of officials and scientists of Agriculture & Allied departments, AIR, Doordarshan etc **formed at State level were met regularly on 4th of every month** at O/o Commissioner & Director of Agriculture, A.P, Hyderabad for discussing, deciding and sending the broad agricultural calendar ***one month in advance*** to Doordarshan Kendra, Hyderabad also to (8) A.I.R Kisanvani Stations.

Further, separate Technical Committees (apart from DLCs) with the officers/scientists of agriculture and allied sectors were also formed at district level where DLCs are located for preparation and sending of calendar and content of programmes relevant to the transmission range of concerned DD and AIR (Kisan vani) FM stations.

Right To Information Act- 2005:

An Act to provide the citizens to have access to obtain information under the control of public authorities, in order to promote **transparency and accountability** in the working of every public authority.

Implementation:

The Commissioner & Director of Agriculture is the Appellate Authority for the office of C&DA. The Additional Directors of Agriculture (I, II, III & IV) of this office are designated as Public Information Officers (PIOs) according to their subjects.

Further the Dy. Director of Agriculture (Media Production) is designated as Nodal officer for receipt and forward of applications under RTI Act to the concerned P.I.Os in this Commissionerate for disposal.

The District Joint Directors of Agriculture are the Appellate Authorities for their respective districts. Public Information Officers & Assistant Public Information Officers have been designated up to Sub-Divisional level including Farmers Training Centers and Labs. The AAs, PIOs and APIOs are being nominated for trainings on RTI Act, for effective implementation of the Act.

The Amendments of RTI Act received from Govt., are being forwarded to the Districts and PIOs in the Commissionerate.

The Quarterly reports on the implementation of RTI Act are obtained from all the districts including C&DA and consolidated report will be submitted to Government. The same is being updated Public Information Officer -Wise in the website of AP Information Commission.

The provision under sec 4(1) (b) of RTI Act -2005 necessitates to update the Information Manual for the current year including all the information pertaining to the Department of Agriculture (i.e., 17 Chapters). Information Manual at State and District level is being published every year both in English and Telugu and the same is being placed in the A.P. Information Commission website and Agriculture Department website.

| | | |
|---|------|-----|
| The Total No. of Public Information Officers (PIOs) of the Department | | 413 |
| The Total No. of Appellate Authorities of the Department | | 24 |

Petitions received under CMP pertaining to Department of Agriculture in PMS website

The gyst of pending petitions were downloaded from the PMS website and as per the subject it was sent to the concerned Section for taking necessary action and the Sections were also requested to furnish the detailed reply directly to the applicant/ petitioners with proper acknowledgement and to the Government and the gist of the same updating in the website i.e., <http://cmo.ap.gov.in:8080/PMS>.

Budget released, expenditure incurred under Work Plan and Normal State Plan during the year 2014-15 are shown below :-

Budget Proposed, Released and expenditure incurred during 2014-15

(Rs. in Lakhs)

| S. No. | Head of A/c. | Component | Total Released | Expenditure | Balance |
|--------|------------------------------|--------------------|----------------|--------------|-------------|
| 1. | 260- Advts. & SPE | General | 16.29 | 16.28 | 0.01 |
| | | SCP | 5.50 | 4.00 | 1.50 |
| | | TSP | 1.06 | 0.40 | 0.66 |
| | | Total | 22.85 | 20.68 | 2.17 |
| 2. | 160 Publica-tions | General | 18.51 | 18.47 | 0.04 |
| | | SCP | 4.81 | 4.33 | 0.48 |
| | | TSP | 0 | 0 | 0 |
| | | Total | 23.32 | 22.80 | 0.52 |
| | | Grand Total | 46.17 | 43.48 | 2.69 |

AGRICULTURAL CREDIT

Credit is one of the most important input for promoting sustainable and equitable agriculture and rural prospects. Therefore, Government of Andhra Pradesh (Go AP) always lays emphasis on timely and adequate credit support to the farmers with particular focus on small and marginal farmers, women farmers and tenant farmers to enable them to adopt latest technology and improve crop production and productivity and increase their income.

A large number of formal institutional agencies like Co-operatives, Regional Rural Banks (RRBs), Scheduled Commercial Banks (SCBs), etc. are involved in meeting the short- and long-term needs of the farmers.

Credit Flow to Agriculture:

It is proposed to issue **Rs. 56019.00 Crores** towards Agricultural Credit for the year 2014-15. The targets and disbursements are as follows:

District wise Targets and Achievements during 2014-15

(Rs. in Crores)

| Sl. No. | District | Crop Loans | | | Agriculture Term Loans including Allied activities | | | Total Agriculture | | |
|--------------|---------------|--------------|--------------|-----------|--|--------------|-----------|-------------------|--------------|-----------|
| | | Target | Achv. | % Ach. | Total Target | Achv. | % Ach. | Total Target | Achv. | % Ach. |
| 1 | Srikakulam | 1722 | 1063 | 62 | 698 | 301 | 43 | 2420 | 1364 | 56 |
| 2 | Vizianagaram | 1200 | 855 | 71 | 460 | 223 | 48 | 1660 | 1077 | 65 |
| 3 | Visakhapatnam | 960 | 1329 | 138 | 693 | 457 | 66 | 1653 | 1786 | 108 |
| 4 | East Godavari | 5514 | 3484 | 63 | 1997 | 1168 | 59 | 7511 | 4652 | 62 |
| 5 | West Godavari | 5220 | 3980 | 76 | 2645 | 959 | 36 | 7865 | 4939 | 63 |
| 6 | Krishna | 3659 | 2602 | 71 | 1419 | 1087 | 77 | 5078 | 3688 | 73 |
| 7 | Guntur | 6329 | 4134 | 65 | 1334 | 1576 | 118 | 7663 | 5710 | 75 |
| 8 | Prakasam | 3176 | 2545 | 80 | 935 | 714 | 76 | 4111 | 3259 | 79 |
| 9 | Nellore | 2919 | 1921 | 66 | 689 | 687 | 100 | 3607 | 2608 | 72 |
| 10 | Kurnool | 3258 | 2028 | 62 | 480 | 925 | 193 | 3738 | 2954 | 79 |
| 11 | Ananthapur | 3315 | 1967 | 59 | 540 | 739 | 137 | 3855 | 2706 | 70 |
| 12 | Kadapa | 2372 | 1690 | 71 | 912 | 753 | 83 | 3285 | 2443 | 74 |
| 13 | Chittoor | 2333 | 2060 | 88 | 1240 | 691 | 56 | 3573 | 2751 | 77 |
| Total | | 41978 | 29658 | 71 | 14041 | 10280 | 73 | 56019 | 39938 | 71 |

Issue of Loan Eligibility Cards to Licensed cultivators and issue of Loans:

During 2014-15, LECs were issued to 3,39,214 Land licensed cultivators (Fresh – 1,70,595 and Renewed – 1,68,619). An amount of Rs. 85.39 crores have been issued under Crop loans to 39,403 LEC holders.

District wise Loan and Other Eligibility Cards issued and Credit extended to Licensed Cultivators during 2014-15

(Rs. in Crores)

| S. No. | District | Target | No. of LECs issued | | | No. of Licensed Cultivators Sanctioned Crop Loans | |
|--------------|---------------|---------------|---------------------|---------------|---------------|---|--------------|
| | | | Renewal of old LECs | Fresh | Total | Number | Amount |
| 1 | Srikakulam | 27882 | 10341 | 7168 | 17509 | 27 | 0.02 |
| 2 | Vizianagaram | 22991 | 13007 | 5459 | 18466 | 180 | 0.11 |
| 3 | Visakhapatnam | 3142 | 4834 | 5581 | 10415 | 32 | 0.08 |
| 4 | East Godavari | 62147 | 45201 | 65588 | 110789 | 35290 | 59.17 |
| 5 | West Godavari | 122420 | 51726 | 12487 | 64213 | 316 | 0.52 |
| 6 | Krishna | 12255 | 8647 | 16736 | 25383 | 39 | 0.08 |
| 7 | Guntur | 22912 | 5281 | 22083 | 27364 | 3204 | 23.31 |
| 8 | Prakasam | 3761 | 4606 | 4369 | 8975 | 109 | 1.66 |
| 9 | Nellore | 47898 | 3384 | 0 | 3384 | 0 | 0.00 |
| 10 | Kurnool | 35447 | 14479 | 26346 | 40825 | 126 | 0.19 |
| 11 | Anantapur | 1005 | 321 | 268 | 589 | 0 | 0.00 |
| 12 | Kadapa | 13362 | 4362 | 1314 | 5676 | 0 | 0.00 |
| 13 | Chittoor | 9399 | 2430 | 3196 | 5626 | 80 | 0.26 |
| Total | | 384621 | 168619 | 170595 | 339214 | 39403 | 85.39 |

Pavala Vaddi scheme on Crop Loan:

The Government of AP is implementing Pavala Vaddi Scheme (at 3% interest) on Crop loans from the year 2008-09.

All the loanee farmers who have availed crop loans from Scheduled Commercial Banks/Cooperatives/RRBs and repaid within the due date (i.e. 31st March for kharif loans and 30th June for Rabi loans) are eligible for the scheme.

During 2014-15, an amount of Rs.30.09 lakhs was reimbursed to 2455 farmers under Pavala Vaddi scheme.

District wise Expenditure under Pavalavaddi during 2014-15

(Amount in Rs.)

| S. No. | District | SCP Component | | TSP Component | | GENERAL | | TOTAL | |
|--------------|---------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| | | No. of Farmers | Interest Amount |
| 1 | Anantapur | 0 | 530 | 0 | 390 | 1 | 17813 | 1 | 18733 |
| 2 | Chittoor | 0 | 9 | 0 | 3 | 3 | 5529 | 3 | 5541 |
| 3 | East Godavari | 0 | 18 | 0 | 1 | 68 | 80117 | 68 | 80136 |
| 4 | Guntur | 1 | 1446 | 0 | 11 | 72 | 72153 | 73 | 73610 |
| 5 | Kadapa | 0 | 500 | 0 | 92 | 7 | 22953 | 7 | 23545 |
| 6 | Krishna | 0 | 8 | 0 | 0 | 33 | 32126 | 33 | 32134 |
| 7 | Kurnool | 0 | 7 | 1 | 340 | 36 | 34935 | 37 | 35283 |
| 8 | Nellore | 4 | 1001 | 0 | 0 | 86 | 105964 | 90 | 106965 |
| 9 | Prakasam | 49 | 37005 | 1 | 1634 | 623 | 705913 | 673 | 744552 |
| 10 | Srikakulam | 0 | 0 | 0 | 1 | 0 | 107 | 0 | 108 |
| 11 | Visakhapatnam | 1 | 284 | 0 | 2 | 2 | 2014 | 3 | 2300 |
| 12 | Vizianagaram | 0 | 6 | 0 | 2 | 2 | 2769 | 2 | 2778 |
| 13 | West Godavari | 167 | 230608 | 1 | 1422 | 1297 | 1652008 | 1465 | 1884039 |
| Total | | 222 | 271422 | 3 | 3898 | 2230 | 2734401 | 2455 | 3009724 |

Zero percent Interest on Crop Loans:

Vide G.O.Ms.No.270, dt.22.11.2011 the Government of Andhra Pradesh has issued orders for waiving of the interest on all crop loans repaid by the farmers in time beginning with Rabi season of 2011-12 (i.e., for crop loans granted w.e.f. 01.10.2011).

The interest on all crop loans up to Rs 1.00 lakh is waived 100% and on the amount exceeding Rs 1.00 lakh, Pavalavaddi only will be applicable up to Rs. 3.00 lakhs if repaid in time.

During 2014-15, an amount of Rs.386.80 lakhs was reimbursed to 80558 farmers under Vaddi leni Runalu scheme.

The District Wise Expenditure under Vaddileni Runalu during 2014-15

(Amount in Rs.)

| S. No. | District | SCP Component | | TSP Component | | GENERAL | | TOTAL | |
|--------------|---------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| | | No. of Farmers | Interest Amount |
| 1 | Anantapur | 1581 | 354865 | 1052 | 234370 | 39778 | 8976849 | 42411 | 9566084 |
| 2 | Chittoor | 13 | 26956 | 3 | 8930 | 142 | 331279 | 158 | 367165 |
| 3 | East Godavari | 22 | 36430 | 3 | 3543 | 803 | 1812772 | 828 | 1852745 |
| 4 | Guntur | 24 | 38279 | 17 | 27125 | 745 | 1754304 | 786 | 1819707 |
| 5 | Kadapa | 1294 | 261848 | 237 | 46937 | 27397 | 8562629 | 28928 | 8871414 |
| 6 | Krishna | 17 | 14790 | 0 | 0 | 561 | 883034 | 578 | 897824 |
| 7 | Kurnool | 27 | 34653 | 9 | 17097 | 893 | 1674044 | 929 | 1725794 |
| 8 | Nellore | 44 | 78660 | 0 | 0 | 840 | 1559196 | 884 | 1637856 |
| 9 | Prakasam | 74 | 199731 | 3 | 6685 | 1434 | 3708145 | 1511 | 3914561 |
| 10 | Srikakulam | 0 | 0 | 4 | 4714 | 219 | 391183 | 223 | 395897 |
| 11 | Visakhapatnam | 32 | 48663 | 7 | 7807 | 287 | 422517 | 326 | 478987 |
| 12 | Vizianagaram | 11 | 15810 | 10 | 8789 | 866 | 1368912 | 887 | 1393511 |
| 13 | West Godavari | 203 | 608104 | 2 | 6827 | 1904 | 5143526 | 2109 | 5758457 |
| Total | | 3342 | 1718788 | 1347 | 372824 | 75869 | 36588390 | 80558 | 38680002 |

EXTENSION

1. POLAM PILUSTHONDI

Polam Pilusthondhi programme was launched as one of the Five Campaigns by the Hon'ble Chief Minister on 8th Aug. 2014 at Visakhapatnam district with a main objective to strengthen the extension reach to farmers doorstep for increasing productivity in agriculture and allied sectors and to increase income of the farmers.

STRATEGIES:

- Providing effective extension services
- Promoting farmer led extension
- Improved use of Technologies
- Updating the status of crops
- Continuous interaction with farmers
- Promoting scientific approach
- Use of Information Technology in Agriculture
- Strengthening local service providers
- Community participation in these sectors.

Outcome

- Increase in farm productivity
- Increase in production and farmers' income
- Water Use Efficiency including methods such as Micro-Irrigation
- Post Harvest Improvements and Value Additions
- Drought Proofing in Dry land Agriculture
- Improving soil health

ACTION PLAN:

- The Polam Pilusthondhi programme will be conducted for two days in a week by the Agricultural Department i.e, on Tuesday and Wednesday along with the officials of the allied departments and scientists of the Agricultural, Horticultural and Veterinary universities with the consent of the people representatives.
- Each day two villages will be covered.
- Visit schedule to be intimated in advance to the concerned peoples' representatives.
- The peoples' representatives viz., Hon'ble Ministers, MPs, MLAs, ZPTC, MPP, MPTC, Gram sarpanch, AMC chairman and Bankers will be invited to participate in the programme.
- Wide publicity will be given in local print and electronic media.
- The schedule will be finalized in advance and all concerned villages, officials and non-officials will be intimated about the same.
- Budget for logistic arrangements will be provided to Mandal Agricultural officer.

During the Polam Pilusthondhi programme 2014, **50,968 village visits** were conducted covering **16.41 lakh** farmers from 12-08-2014 to 04-03-2015 for a period of **7 months** with a financial outlay of **Rs.132.89 lakhs**. During the programme, Focus was given on (a) Increasing Productivity and Reducing cost of cultivation and (b) Pest Management and timely advice which reduced crop loss.

District wise release and expenditure particulars for Polampilusthondi during 2014-15

(Physical in No. & Financial Rs.in lakhs)

| S. No. | District | Unit | Physical | | | Financial | | % Exp over Release |
|--------|---------------|----------------------|--------------|-------|------|-----------|--------|--------------------|
| | | | Target | Ach. | % | Release | Exp | |
| 1 | Srikakulam | No of Village Visits | 3648 | 2960 | 81 | 8.57 | 7.65 | 89 |
| 2 | Vizianagaram | | 3264 | 2647 | 81 | 5.93 | 4.51 | 76 |
| 3 | Visakhapatnam | | 4128 | 2923 | 71 | 10.78 | 6.08 | 56 |
| 4 | East Godavari | | 5952 | 4488 | 75 | 10.89 | 7.97 | 73 |
| 5 | West Godavari | | 4608 | 3529 | 77 | 8.37 | 7.92 | 95 |
| 6 | Krishna | | 4800 | 3529 | 74 | 8.96 | 7.11 | 79 |
| 7 | Guntur | | 5472 | 4902 | 90 | 18.03 | 15.48 | 86 |
| 8 | Prakasam | | 5376 | 4908 | 91 | 8.68 | 6.88 | 79 |
| 9 | Nellore | | 4416 | 3285 | 74 | 7.11 | 6.73 | 95 |
| 10 | Kurnool | | 5088 | 3980 | 78 | 17.03 | 9.99 | 59 |
| 11 | Anantapur | | 6048 | 4887 | 81 | 7.72 | 6.80 | 88 |
| 12 | Kadapa | | 4896 | 3978 | 81 | 7.76 | 6.24 | 80 |
| 13 | Chittoor | | 6336 | 4952 | 78 | 10.09 | 8.21 | 81 |
| | Head Quarters | | | | 3.00 | 0.00 | 0 | |
| | Total | | 64032 | 50968 | 80 | 132.89 | 101.58 | 79 |

2. FARMERS' TRAININGS:

The basic objective of the Trainings is to transfer latest agricultural technologies, upgrade the skills and knowledge to the farmers for capacity building in agriculture activities, promoting women's participation in the over all development of Agriculture thereby increasing their levels of income.

Objectives:

- To impart necessary technology, skills and new practices to the farmers in an understandable manner to suit their literacy levels.
- To disseminate the latest crop production technologies.
- To create a favourable attitude in farmers towards modern cultivation practices and maximizing their potential.
- To build-up their confidence levels for better decision making capacity.

Training programmes are imparted to the farmers/Farm Women/RMGs on the latest production technologies on various crops with the main focus on the major crop. District specific topics for trainings will be selected as per the location specific/Crop

specific situations. The trainings will cover all the aspects based on the Critical interventions identified in the villages as per the Village Action Plan. The Trainings are organized covering 30% trainings to the Farm women, 10% trainings to RMGs and remaining to the farmers out of the total budget allocated.

During the year 2014-15, the total Budget Allocated for these trainings is **Rs.42.50 lakhs** and it is proposed to conduct **850 trainings** in the districts @ Rs.5,000/- per training.

The Deputy Directors of Agriculture (Farmers Training Centers) will organize and monitor the conduct of training programmes duly co-ordinating with the MAOs on the topics to be trained. The Training must emphasize on Experiential sharing basis rather than the lectures.

Expected Outcome:

- Farmer's knowledge on latest farming technologies will be improved.
- Productivity and production will be enhanced.
- Improving the productivity of small farms
- Awareness will be created on entrepreneurial opportunities in agricultural sector and the trainings on value addition related to agri-products is useful in getting alternate income in off-season thereby generating extra income.

District wise allocation and expenditure particulars for Farmers Trainings during 2014-15
(Physical in No. & Financial Rs.in lakhs)

| S. No. | District | Unit | Physical | | | Financial | | % Exp over Release |
|--------|---------------|------------------|------------|------|-----|-----------|-------|--------------------|
| | | | Target | Ach. | % | Release | Exp | |
| 1 | Srikakulam | No. of Trainings | 65 | 65 | 100 | 3.25 | 3.25 | 100 |
| 2 | Vizianagaram | | 65 | 65 | 100 | 3.25 | 3.25 | 100 |
| 3 | Visakhapatnam | | 66 | 64 | 97 | 3.30 | 3.20 | 97 |
| 4 | East Godavari | | 66 | 62 | 94 | 3.30 | 3.11 | 94 |
| 5 | West Godavari | | 66 | 66 | 100 | 3.30 | 3.30 | 100 |
| 6 | Krishna | | 64 | 64 | 100 | 3.20 | 3.20 | 100 |
| 7 | Guntur | | 65 | 65 | 100 | 3.25 | 3.25 | 100 |
| 8 | Prakasam | | 65 | 58 | 89 | 3.25 | 2.89 | 89 |
| 9 | Nellore | | 67 | 67 | 100 | 3.35 | 3.35 | 100 |
| 10 | Kurnool | | 65 | 65 | 100 | 3.25 | 3.25 | 100 |
| 11 | Anantapur | | 66 | 66 | 100 | 3.30 | 3.30 | 100 |
| 12 | Kadapa | | 64 | 64 | 100 | 3.20 | 3.20 | 100 |
| 13 | Chittoor | | 66 | 66 | 100 | 3.30 | 3.30 | 100 |
| Total | | | 850 | 837 | 98 | 42.50 | 41.85 | 98 |

3. ADARSHA RYTHUS:

As per the recommendations of **National Commission on Farmers**, headed by **Prof. M.S. Swaminathan**, to adopt Model Farmer approach, Adarsha Rythu system was introduced in A.P. in the year 2007-08.

The main objective behind the identification of Adarsha Rythus is to introduce a **nodal functionary** between **the farmers and the Extension Staff** of Agriculture and Line Departments to help in **bridging the gap between the scientific know-how and field level do – how.**

At present **22963** Adarsha Rythus are working in the state as against the target of 29884.

Adarsha Rythu will assist the extension staff in implementation of the schemes like Polambadi , Seed Village Programme , Vermi compost, Organic farming , **Rashtriya Krishi Vikas Yojana (RKVY)** , National Food Security Mission (NFSM), Agricultural Technology Management Agency (ATMA), Crop Insurance, Credit and other Central and State Schemes. Adarsha Rythus are also facilitating the activities of allied departments i.e. Animal Husbandry, Horticulture, Sericulture, Sugars, Irrigation, Forestry, Revenue, Rural Development, Marketing, A.P. Transco and Banks.

The Mandal Agricultural Officer organizes a meeting with Adarsha Rythus and other line departmental officers **on 3rd Monday of every month** in the Mandal head quarters to discuss various problems arising at field level.

On 1st Saturday of every month, the Agricultural Officer, Line Departmental Officers visit the fields, demonstration sites etc. along with Adarsha Rythus in at least 2-3 villages.

Adarsha Rythus **maintain the list of 200-250** farm holdings allotted to him/her in the registers with the information on each farm holding.

An amount of **Rs.1000/- per month** is provided towards the honorarium to each Adarsha Rythu.

An amount of **Rs. 1685.98 lakhs** was released towards the payment of honorarium to Adarsha Rythus and an amount of 1092.40 lakhs was paid during the year 2014-15.

District wise allocation and expenditure particulars for Adarsa rythulu during 2014-15

(Physical in No. & Financial Rs.in lakhs)

| S. No. | District | Unit | Physical | | | Financial | | % Exp over Release |
|--------|---------------|-----------------------|----------|------|---------|-----------|--------|--------------------|
| | | | Target | Ach. | % | Release | Exp | |
| 1 | Srikakulam | No. of Adarsa rythulu | 2102 | 1797 | 85 | 131.94 | 96.83 | 73 |
| 2 | Vizianagaram | | 1778 | 1498 | 84 | 109.98 | 74.70 | 68 |
| 3 | Visakhapatnam | | 1958 | 1596 | 82 | 117.19 | 72.99 | 62 |
| 4 | East Godavari | | 2878 | 1965 | 68 | 144.27 | 100.94 | 70 |
| 5 | West Godavari | | 2362 | 1516 | 64 | 111.31 | 72.97 | 66 |
| 6 | Krishna | | 2408 | 1662 | 69 | 122.03 | 76.29 | 63 |
| 7 | Guntur | | 2992 | 2392 | 80 | 175.62 | 111.42 | 63 |
| 8 | Prakasam | | 2518 | 1996 | 79 | 146.54 | 81.23 | 55 |
| 9 | Nellore | | 1698 | 1375 | 81 | 100.95 | 59.72 | 59 |
| 10 | Kurnool | | 2202 | 1619 | 74 | 118.87 | 74.72 | 63 |
| 11 | Anantapur | | 2598 | 2155 | 83 | 158.21 | 94.89 | 60 |
| 12 | Kadapa | | 1752 | 1478 | 84 | 108.51 | 82.86 | 76 |
| 13 | Chittoor | | 2638 | 1914 | 73 | 140.53 | 92.84 | 66 |
| | Total | 29884 | 22963 | 77 | 1685.98 | 1092.40 | 65 | |

4. Multi Purpose Extension Officers (MPEOs):

The Government vide G.O.Rt.No.43, dt.19-09-2014 and G.O.RT.No. 693, dt.16-12-2014 ordered for abolition of Adarsha Rythus and to replace it with well organized agriculture extension network with qualified Multi Purpose Extension System. It is ordered to place one Multipurpose Extension Officer for every 1000 hectares cultivable area with a total of 6354 Multipurpose Extension Officers for net cropped area of 63.54 lakh hectares on contract basis under the control of ATMA in each district to be placed on contract basis.

Out of the said 6354 posts, 4354 MPEOs were placed through Agricultural department. The placement of 1200 MPEOs through Horticulture Department, 500 MPEOs through Animal Husbandry Department and 300 MPEOs through Fisheries Department are being taken by the respective departments.

The MPEOs were placed at village level to fulfill the following objectives

- To facilitate the effective extension reach to the farming community.
- To address the immediate needs of the farmers during the season in case of unfavorable seasonal conditions.
- Sensitize the farmers on measures to be taken up to enhance the productivity Levels.

The Placement of 4354 MPEOs has been started in different districts.

INFORMATION CELL

AGRISNET

The portal is enriched with technical information needed and services provided to the farmers in Telugu as detailed below.

General Content available in portal

Wherever applicable the text will be read out in Telugu for the convenience of farmers. Photos and videos are included for most of the concepts for good understanding.

Package of practices of 18 important crops grown in AP, schemes & subsidies of the department & other related technical and agricultural information.

I. Interactive IT Applications

Online Soil Health Card Generation System: is an application to computerize soil test results of soil samples in Soil Testing Laboratories. Farmers can download soil health card online using the unique No. allotted to each sample.

A facility is provided to send the soil test based fertilizers recommendation as SMS to the farmers' mobile phone.

For any assistance or queries please contact Mr. Khaleem-programmer, IEG-9866642423

'Ask an Expert' – 'NipunulanuAdigiTelusukondi' feature facilitates the farmers in posing a query to the scientists identified as experts from ANGRAU and concerned dept. officers, in Telugu. The Q&A s gets updated as FAQ in the application. Till now 1550+ queries were resolved.

visit <http://apagrisnet.gov.in>

Vaddi Leni Panta Runaalu (Online waiving of interest to Farmers Crop Loans)

- The process of payment of interest amount waived off for the farmers' crop loan directly to banks is automated.
- The interest amount is credited from the account of Commissioner & Director of Agriculture to respective banks through the Nodal branches based on the details of principal loan amount repaid by the farmers.

Agrilabs applications of Fertilizers and Pesticide testing laboratories

- An application is developed to automate the workflow of fertilizer and pesticide coding centers and laboratories. Barcoding is introduced to maintain utmost secrecy of samples coded at Coding center.
- After the results are approved by concerned ADA of laboratories it will be published over the net. The reports enable the senior officers to view the status of samples received, analyzed and misbranded.

II. Connectivity

APSWAN

- G2G AP State Wide Area Network (AP SWAN) is being established connecting the State Capital to all the 23 District Headquarters and Mandal Headquarters under National e-Governance Plan (NeGP) for all Government applications of voice, data and video services along with Video Conference facility.
- Initially establishment of horizontal connectivity to district & sub-division head quarters is under progress.

National Optical Fibre Network (NOFN):

- NOFN infrastructure can be commonly utilized for delivery of multiple G2C services from different departments at village level. The speed is high enough (100 Mbps) to facilitate video conferencing.
- In A.P., Parwada Mandal in Visakhapatnam district is identified as the pilot site for rolling out citizen centric services at Panchayat level.
- An Interactive VC session was organized on 1-8-2013 with farmers of Parwada Mandal using NOFN network.
- Farmers Empowerment Program on ICT is being taken up for 3 months through DKCs @ 25 farmers per DKC from the month of December, 2014 on Government schemes & latest technologies in association with KVK, DRR, ANGRAU, MANAGE & allied institutions/dept. Till now 7 sessions were held.
- **Voice messaging - Green SIM Cards of IKSL:**

The Green SIM Cards of M/s IKSL were supplied to 2900+ abhyudaya Rythus to send five voice messages daily through M/s IKSL – Three on Agriculture by the district Joint Directors of Agriculture, one on Animal Husbandry and other a general one such as Horticulture, Weather, Market Prices, Agriculture dept. schemes etc.

Farmers Portal of GoI: www.farmer.gov.in

- Farmers Portal of GoI, www.farmer.gov.in is intended to be ‘One Stop Shop’ for all the farmers in the country.
- The information relating to package of practices, crop/seed varieties, common pests, machineries, dealers etc. for the each Mandal of our state is updated.
- **Kisan SMS** – Location specific messages are being sent to farmers either in English or Telugu on the crops selected by the registered farmers. A workshop is conducted to officers of districts on Kisan SMS. The no. of messages received by farmers are 40313.
- **Digital Signature Certificates:** have been issued to all notified authorities upto MAO level and are being used in the online applications. Officers are registered their details through e-mudra applications. For registration and any queries please visit the url www.aps.gov.in

Mobile application on crop package of practices: for strengthening technical knowledge to the field functionaries a convenient mobile application is under process in which all crops technical information is incorporated in bullet forms.

e-Office: a digital work place solution is launched by ITE&C dept of AP- an anywhere any time file movement software. e-office aims to support to governance by ushering in more effective and transparent inter and intra government processes. url.is eoffice.ap.gov.in

HRMIS: Human Resource Management and Information System in establishment related services of agriculture department is used to maintain electronic records of employees, like service register, payrolls, annual property returns, IT returns, transfers and promotions, pension modules etc. to maintain transparency in the system.

Supply of Laptops and Datacards: Department has supplied laptops and data cards to MAOs and ADA (R) s for utilizing IT services without any obstacles and to produce reports at any time on real time basis.

CM-dash board: CM office Real-time Executive Dashboard (CORE) a prestigious web based software launched by the govt. which is an integrated MIS dash board for the Hon'ble Chief Minister to monitor key performance indicators, schemes like Janmabhoomi, Polampilusthondi reports, grievance redressal status, Natural Calamity reliefs, input subsidy payments etc. which represents a clear and effective view of a particular parameters like rainfall status, Kharif and Rabi crop coverage report, from highest level to lowest administrative unit.

HARITA PROJECT: HARITA stands for 'Harmonised Information of Agriculture, Revenue, and Irrigation for a Transformation Agenda' is a part of creating technology based information in highway in the state by AP govt. it is an integrated information service system that harnesses the potential of remote sensing technologies taken up to improve productivity, and introducing on pilot basis in East Godavari, Nellore, Prakasam and Kurnool districts of AP. The programme seeks to enable better planning of agriculture extension and irrigation and deployment of new technologies for agriculture, effective water management and also facilitate work audit. The pilot initiative allocates works department-wise and lays thrust on collection of ground data and upload it online for real-time tracking.

Hudhud portal: a portal on Hudhud cyclone is created to ensure proper and correct enumeration of the property damaged by the very severe cyclone that hit the North Coastal districts of AP for quick enumeration of crop damage on real time basis.

NATIONAL AGRICULTURAL INSURANCE SCHEME (CROP INSURANCE)

For the benefit of the farming community, the Government of India rolled back the National Agricultural Insurance Scheme (NAIS) and issued orders to implement **National Crop Insurance Programme (NCIP) comprising two components i.e., 1.Modified National Agricultural Insurance Scheme (MNAIS) 2.Weather Based Crop Insurance Scheme (WBCIS) from Kharif 2014** in the state which have many more farmer friendly features.

Government of A.P. have issued Notification orders to implement the **MNAIS & WBCIS** schemes under NCIP during Kharif 2014 season.

MODIFIED NATIONAL AGRICULTURAL INSURANCE SCHEME (MNAIS)

The Government of India introduced Modified National Agricultural Insurance Scheme (MNAIS) during Rabi 2010-11 on pilot basis in 3 Districts viz., **Prakasam, Nellore and Warangal** which has many more farmer friendly features such as coverage of Post Harvest Losses, Prevented Sowings etc. Apart from Mandal Insurance Unit, one major crop of each District is selected for implementation under **Village as Unit**. The scheme is successfully under implementation. During Kharif 2013 the scheme is implemented in 4 Districts i.e., **East Godavari, West Godavari, Krishna and Guntur** on pilot basis. Large number of farmers benefited in the event of Crop loss during Kharif 2012 & 2013.

Under NCIP, MNAIS is Notified to implement in all the 13 Districts during Kharif 2014 season

Additional Features

- Coverage of prevented sowings.
- Coverage of post harvest losses.
- Localized calamities (hail storm) covered on individual basis
- District major crop under Village Insurance Unit.
- 40-75% Premium subsidy to all the farmers.
- Claims processed based on past 7 years average yield by excluding 2 disaster years.
- On account payment: In the event of mid season crop failure, 25% of likely claim will be paid in advance to the farmers.
- Two indemnity levels - 80% & 90%.

CROPS COVERED:

The following 20 crops are covered for Kharif season.

| KHARIF |
|--|
| Paddy, Jowar, Bajra, Maize, Blackgram, Greengram, Redgram, Soybean, Groundnut (I), Groundnut (Ui) Sunflower, Castor, Sugarcane (P), Sugarcane (R), Cotton (I), Cotton (Ui), Chilly(I), Chilly (Ui), Turmeric, Korra |
| (20) CROPS |

Village Insurance Unit Scheme:

Apart from Mandal Insurance Unit. One major crop in each District is selected under Village Insurance Unit which is more beneficial to the farming community. Lower size of Unit is more representative for calculation of Average yield for the purpose of calculation of Claim.

Premium subsidy:

40% to 75% premium subsidy is allowed to all the farmers irrespective of their category.

Districts and Crops proposed under MNAIS for Kharif 2014 season.

| S. No. | District | Crops |
|---------------|-----------------|---|
| 1 | Srikakulam | Rice(village made as insurance unit) , Bajra, Groundnut(UI), sugarcane(P), sugarcane(R) |
| 2 | Vizianagaram | Rice(village made as insurance unit) , Bajra, Maize, Groundnut(UI), Sugarcane(P), Sugarcane(R), Cotton (UI) |
| 3 | Vishakhapatnam | Rice(village made as insurance unit) , Bajra, Maize, Redgram, Groundnut(UI), Sugarcane(P), Sugarcane(R) |
| 4 | East Godavari | Rice(village made as insurance unit) , Bajra, Cotton (UI), Sugarcane Plant, Sugarcane Ratoon |
| 5 | West Godavari | Rice(village made as insurance unit) , Sugarcane Plant, Sugarcane Ratoon |
| 6 | Krishna | Rice(village made as insurance unit) , Maize, Greengram, Redgram, Chillies (I),Cotton (UI), Groundnut (UI), Redgram, Sugarcane (Plant), Sugarcane (Ratoon) |
| 7 | Guntur | Rice(village made as insurance unit) , Blackgram, Castor, Redgram, Sugarcane (Plant), Sugarcane (Ratoon), Turmeric |
| 8 | Prakasam | Rice(village made as insurance unit) , Bajra, Maize, Redgram, Castor, Chillies(I), Chillies(UI), |
| 9 | Nellore | Rice(village made as insurance unit) , Bajra, Groundnut(I), Sugarcane(P), Sugarcane(R) |
| 10 | Y.S.R(Kadapa) | Rice(village made as insurance unit) , Jowar, Bajra, Redgram,Cotton(I), Cotton(UI), Sunflower, Turmeric, Sugarcane(P), Sugarcane(R) |
| 11 | Kurnool | Rice(village made as insurance unit) , Jowar, Bajra, Redgram, Sunflower, Chillies(I), Chillies(UI), Cotton (I) Cotton(UI), castor, Sugarcane(P), Sugarcane(R), Korra |
| 12 | Ananthapur | Rice, Jowar, Bajra, Maize, Redgram(village made as insurance unit) , sunflower, chillies(I), Cotton(UI) |
| 13 | Chittoor | Rice(village made as insurance unit) , Jowar, Bajra, Redgram, Sugarcane(P), Sugarcane(R) |

Weather Based Crop Insurance Scheme (WBCIS)

Government of A.P. introduced the “Weather Based Crop Insurance Scheme” on Redchilly crop in Guntur District during Kharif 2009 season. Subsequently the scheme extended to other crops and Districts. The Scheme aims to mitigate the hardship of the insured farmers due to the financial loss on account of anticipated crop loss resulting from incidence of **adverse deviations of weather parameters** like **Rainfall, Temperature, Relative humidity** etc.

Perils covered under the WBCIS

- Excess Rainfall
- Less Rainfall
- Excess Temperature
- Less Temperature
- Deviations in relative humidity
- Wind velocity etc.

“Automatic Weather Stations” (AWS)

To measure the Weather parameters “Automatic Weather Stations” (AWS) are established in all the Mandals of the State.

Premium Subsidy:

25% to 50% premium subsidy allowed to all the farmers irrespective of their category.

Crops Notified under WBCIS for Kharif 2014

| Crops | Districts |
|--------------|---|
| Groundnut | Kurnool, Anantapur, Kadapa and Chittoor |
| Cotton | Guntur and Prakasam. |
| Redchilly | Guntur |
| Oil Palm | West Godavari |
| Sweet Lime | Kadapa |
| Tomato | Chittoor |

Districts and Crops Notified Under MNAIS- Rabi,2014-15

| SL. No | District | Crops |
|--------|----------------|--|
| 1 | Srikakulam | Rice, Blackgram, Chilly (Irrigated), Greengram, Groundnut, Onion. |
| 2 | Vizianagaram | Rice, Blackgram, Chilly (Irrigated), Greengram, Groundnut, Maize. |
| 3 | Vishakhapatnam | Chilly(Irrigated), Rice |
| 4 | East Godavari | Rice (village made as insurance unit) , Chilly (Irrigated), Jowar Unirrigated, Maize. |
| 5 | West Godavari | Rice (village made as insurance unit) , Chilly (Irrigated), Greengram, Groundnut, Maize. |
| 6 | Krishna | Rice (village made as insurance unit) , Greengram, Groundnut, Maize ,Blackgram |
| 7 | Guntur | Maize (Village is made as insurance unit) , Groundnut, Jowar Unirrigated, Rice, Bengalgram |
| 8 | Prakasam | Rice (Village is made as insurance unit) , Bengalgram, Blackgram, chilly(Irrigated), Greengram, Groundnut, Jowar Unirrigated, Maize, Sun-flower |
| 9 | Nellore | Rice (village made as insurance unit) , Blackgram, Greengram, Groundnut,Sunflower, Chilly (irri) |
| 10 | Y.S.R(Kadapa) | Groundnut, Rice, |
| 11 | Kurnool | Groundnut, Jowar Unirrigated, Onion, Rice, Sun-flower |
| 12 | Ananthapur | Groundnut, Jowar, Paddy |
| 13 | Chittoor | Rice(Village made as insurance unit) , Chilly (Irrigated), Groundnut |

Districts and Crops Notified Under NAIS- Rabi,2014-15

| S. No. | District | No. of Crops Notified | Crops Notified |
|--------|---------------|-----------------------|--|
| 1 | East Godavari | 2 | 1Blackgram 2. Greengram |
| 2 | West Godavari | 1 | Blackgram |
| 3 | Guntur | 2 | Blackgram, Greengram |
| 4 | Kadapa | 4 | 1.Bengalgram 2.Sunflower 3.Onion 4.Jowar |
| 5 | Ananthapur | 2 | Bengalgram, Sunflower |
| 6 | Kurnool | 1 | Bengalgram |

Districts and Crops Notified Under WBCIS- Rabi, 2014-15

| S. No. | District | Crop |
|--------|---|----------------|
| 1 | Srikakulam, Vizianagaram, Visakhapatnam, East Godavari, West Godavari, Krishna, YSR Kadapa, Kurnool, Chittoor and Prakasam(10 Districts) | Mango |
| 2 | Vizianagaram, East Godavari, YSR Kadapa, Kurnool & Guntur (5 Districts) | Banana (fruit) |
| 3 | Srikakulam and Vizianagaram (2 Districts) | Cashew nut |

COVERAGE & CLAIMS SETTLEMENT IN ANDHRA PRADESH

| Sl.No | Year | Scheme | Farmers covered in Lakhs | Area Covered in Lakh Ha. | Full Premium (Rs. In Lakhs) | Farmer share (Rs. In Lakhs) | Claim (Rs. In Lakhs) | No. of farmers benefited (In Lakhs) |
|-------|---------|--------------|--------------------------|--------------------------|-----------------------------|-----------------------------|----------------------|-------------------------------------|
| 1 | 2010-11 | MNAIS & NAIS | 19.52 | 28.92 | 15687 | 14398 | 82293 | 7.97 |
| | | WBCIS | 0.11 | 0.09 | 675 | 337 | 110 | 0.01 |
| | | TOTAL | 19.63 | 29.00 | 16362 | 14735 | 82403 | 7.98 |
| 2 | 2011-12 | MNAIS & NAIS | 12.64 | 16.72 | 11454 | 10080 | 22999 | 2.38 |
| | | WBCIS | 7.79 | 13.64 | 27994 | 10003 | 16848 | 5.76 |
| | | TOTAL | 20.43 | 30.36 | 39448 | 20083 | 39847 | 8.14 |
| 3 | 2012-13 | MNAIS & NAIS | 12.28 | 15.20 | 23955 | 15272 | 62366 | 3.88 |
| | | WBCIS | 7.83 | 14.29 | 33639 | 11992 | 29291 | 5.33 |
| | | TOTAL | 20.11 | 29.49 | 57594 | 27264 | 91657 | 9.21 |
| 4 | 2013-14 | MNAIS & NAIS | 9.73 | 10.00 | 29557 | 13713 | 39186 | 3.43 |
| | | WBCIS | 7.20 | 12.48 | 33678 | 11930 | 25548 | 5.11 |
| | | TOTAL | 16.94 | 22.49 | 63235 | 25643 | 64734 | 8.54 |
| 5 | 2014-15 | MNAIS & NAIS | 3.59 | 4.67 | 12518 | 5796 | 3572 | 0.35 |
| | | WBCIS | 0.96 | 1.72 | 4899 | 2450 | 4488 | 0.78 |
| | | TOTAL | 4.55 | 6.39 | 17417 | 8246 | 8060 | 1.13 |

EXTENSION REFORMS (ATMA)

Introduction:

- Agricultural Technology Management Agency (ATMA) is under implementation in the (13) districts of Andhra Pradesh from the year **2005-06** with an objective to develop an efficient, effective, demand driven, research integrated and financially sustainable public extension system through Bottom up planning.
- In all the (13) districts ATMA has been established and registered as autonomous society. 170 Farm Information and Advisory Centers are notified in 13 districts.
- The Principal Secretary to Govt., Agril. & Coop. Department, as the Chairman, Inter Departmental Working Group and Commissioner of Agriculture, AP as State Nodal Officer are monitoring the implementation of Scheme at State level.
- At District level, under the chairmanship of the District Collector; the Governing Board of ATMA is looking after the implementation of the project activities.
- As per revised guidelines of ATMA Scheme, GOI has sanctioned 579 posts and 445 posts are filled at various levels.
- One separate Project Director in the Cadre of Joint Director and 2 Deputy Project Directors in the cadre of Deputy Director deputed from Agriculture and other allied sectors are monitoring the implementation of the ATMA project activities at District level.
- Farmers Advisory Committees (FAC) and Block Technology Teams (BTT) with support of Block Technology Managers and Subject Matter Specialists are implementing the activities as per their Block Action Plans.

State Extension Work Plan 2014-15:

- GOI has given administrative approval for the State Extension Work Plan of AP with an outlay of Rs.34.45crores and released an amount of Rs 22.64 crores and revalidated the unspent amount of Rs. 8.58 crores available with the State for implementation of the activities.
- The State has released an amount of Rs. 78.51 lakhs towards Matching State Share.

Status of releases and expenditure:

(Rs. in Lakhs)

| S. No. | Year 2014-15 | Opening Balance 1-4-14 | Amount Received during 2014-15 | Total | Expenditure | Balance |
|--------------|---------------|------------------------|--------------------------------|----------------|-------------|----------------|
| 1 | Central Share | 858.87 | 2264.43 | 3123.30 | 1405.70 | 1717.60 |
| 2 | State Share | 0.00 | 78.51 | 78.51 | 0.00 | 78.51 |
| Total | | 858.87 | 2342.94 | 3201.81 | 1405.70 | 1796.11 |

Details of Various programmes Organized during the year 2014-15:

(Rs. in Lakhs)

| S. No. | Components | Targets | | Achievements | |
|--------|---|--------------|-----------------|--------------|-----------------|
| | | Physical | Financial | Physical | Financial |
| 1 | State level activities (Trgs. to Extn. functionaries) | 241 | 84.450 | 11 | 27.225 |
| 2 | <i>District Level Activities</i> | | | | |
| | a) Trainings to Farmers | 1915 | 308.575 | 1721 | 139.894 |
| | b) Demonstrations | 7144 | 285.775 | 4771 | 149.781 |
| | c) Exposure visits | 316 | 171.026 | 70 | 14.158 |
| | d) Capacity building of FIGs | 673 | 33.64 | 632 | 26.575 |
| | e) Kisan Melas | 26 | 26.000 | 32 | 21.806 |
| | f) Field Days | 306 | 45.936 | 231 | 31.416 |
| | g) Farmer Sci. Interactions | 26 | 5.200 | 18 | 3.075 |
| | h) Farm Schools | 170 | 49.980 | 93 | 23.675 |
| | i) Innovative Activities | 85 | 42.670 | 26 | 18.997 |
| | j) Other activities | | 188.600 | | 23.383 |
| | k) SNO, SAMETI and other activities | | 299.980 | | 56.557 |
| | l) Administrative and Spl. Functionary support | | 1904.100 | | 869.164 |
| | Total | 10902 | 3445.932 | 7605 | 1405.706 |

Major activities taken up during 2014-15:

- Organized (1721) Trainings on the areas like Organic Farming, Vermi Compost, oil palm and rejuvenation of Mango & Cashew, SRI cultivation, Bio fungicides, Post harvest technologies Fisheries, Calf rearing and management and covered 1,23,722 farmers.
- Organized (4771) Demos on Drum Seeder Technology, YMV resistant pulse variety PU-31, performance of Basmati Rice, Package of practices of Rajmah, Management of BPH with botanical extracts, Azolla Demos, Fodder Cultivation, Bivoltine Cocoon Production, Control of Root rot in Mulberry etc.
- Organized Inter state and Intra State Exposure visits of farmers to Tamilnadu, Maharashtra, Bhopal, New Delhi, Karnataka on Sustainable Agriculture, Organic Farming and Natural Farming, Dairy Management, Advanced techniques in mango etc.
- Organized (93) Farm Schools in Agriculture and Allied sectors on critical stages of crop growth for upgrading the knowledge levels of the (5058 beneficiaries on areas like ICM in Paddy, Groundnut, Direct Sowing with Drum Seeder, Cultivation of Improved varieties of Rajmah beans, Backyard poultry rearing, Rearing of vanaraja Birds, Fodder Cultivation, Clean Milk Production, Tissue culture Banana, Bivoltine Silk worm Rearing, Organic farming in Mulberry, Cultural Practices techniques in Pangacius, Scampi culture, Vannamai culture etc.

- Organized (682) Programmes such as Kisan mela, Farmer Scientist interactions and Field days on various activities at District level and Block level to update the knowledge of developments (74226) farmers on latest trends, technologies on various areas like in the field of Agricultural machinery, Direct Sowing of Paddy with Drum Seeder, BT Cotton varietal trials, Post harvest technology and value addition in Turmeric crop etc.

Innovative activities:

- Sustainable Organic Vegetable crop model
- Integrated farming (Poultry+Fish+Vegetables)
- Raising of Vegetable or Fruit crop Nursery or Floriculture under Shade nets
- Paddy Cultivation with Drip
- Banana fibre extraction method
- Development of minor millet - Sama crop

RASHTRIYA KRISHI VIKAS YOJANA (RKVY)

Rashtriya Krishi Vikas Yojana (RKVY) is an additional central assistance scheme aiming to achieve sustainable desired annual growth during XII plan period by ensuring holistic development of Agriculture and Allied sectors.

Objectives:

- To incentivize the states so as to increase public investment in Agriculture and allied sectors.
- To provide flexibility and autonomy to states in the process of planning and executing Agriculture and allied sector schemes.
- To ensure the preparation of agriculture plans for the districts and the states based on agro-climatic conditions, availability of technology and natural resources.
- To ensure that the local needs/crops/priorities are better reflected in the agricultural plans of the states.
- To achieve the goal of reducing the yield gaps in important crops, through focused interventions.
- To maximize returns to the farmers in Agriculture and allied sectors

Funding pattern

- 100% by Govt. of India.

Departments involved

- Agriculture, ANGRAU, Horticulture, Horticultural University, Animal Husbandry, A.P. Dairy Development Corporation Ltd. Fisheries, Veterinary University, Sericulture, AP Food Processing Society, Small Farmers Agri Business Consortium (SFAC), Forest (River valley project), Spices Board & AP MARKFED

Implementation:

- State Level Sanctioning Committee (SLSC) under the Chairmanship Chief Secretary with Prl. Secretary (Agril.) as Member Secretary will approve projects proposals of different sectors for implementation under RKVY.
- Department of Agriculture is the Nodal Department.
- SAMETI is the Nodal Agency for operating funds.

Status during 2014-15:

- An amount of Rs. 263.54 Crores has been allocated for implementation of various projects of different sector under RKVY during 2014-15 as detailed below:

| S. No. | Name of the Sector | Allocation (Rs. in Cr.) | Utilization (Rs. in Cr.) |
|--------------------|---|-------------------------|--------------------------|
| 1 | Agriculture | 83.95 | 83.95 |
| 2 | ANGRAU | 11.80 | 11.80 |
| 3 | Agri. Biotech Foundation | 1.22 | 1.22 |
| 4 | Food and Agri Business School (FABS) | 2.15 | 2.15 |
| 5 | Horticulture | 28.60 | 28.60 |
| 6 | Dr. YSR Horticultural University | 8.75 | 8.75 |
| 7 | Animal Husbandry | 65.47 | 65.47 |
| 8 | APDDCF | 18.90 | 18.90 |
| 9 | Fisheries | 13.00 | 13.00 |
| 10 | Sri Venkateswara Veterinary University (SVVU) | 1.15 | 1.15 |
| 11 | Sericulture | 5.70 | 5.70 |
| 12 | AP Food Processing Society | 8.70 | 8.70 |
| 13 | Rythu Bazar | 3.50 | 3.50 |
| 14 | Small Farmers Agri Business Consortium (SFAC) | 1.00 | 1.00 |
| 15 | Forest department- River valley project | 3.00 | 3.00 |
| 16 | Spices Board | 3.65 | 3.65 |
| 17 | AP MARKFED | 3.00 | 3.00 |
| Grand Total | | 263.54 | 263.54 |

Agriculture sector Projects:

- An amount of Rs. 83.95 Crores has been allocated to implement Agriculture Sector projects under RKVY during 2014-15 as detailed below:

(Rs. in Crores)

| Sl. No | Name of the Project | Unit | Target | | Achievement | |
|--|---|---------------|------------|--------------|-------------------|--------------|
| | | | Phy. | Fin. | Phy. | Fin. |
| I | AGRICULTURE | | | | | |
| A | Seed component | | | | | |
| 1 | Distribution of Certified Groundnut seed on subsidy | Lakh quintals | 1.5 | 18.00 | 1.5 Lakh quintals | 18.00 |
| 2 | Supply of Seed Storage Bins under Seed Village Programme | Nos. | 19512 | 5.00 | 7145 | 5.00 |
| 3 | Establishment of DNA Finger Printing & Transgenic Crops Monitoring Laboratory | No. | 1 lab | 1.50 | - | 1.5 |
| 4 | Seed Contingency plan | | 10309 qtl. | 2.40 | 10309 qtl. | 2.40 |
| Seed component Total | | | | 26.90 | | 26.90 |
| B | Plant Protection | | | | | |
| 1 | Rodent control programme | lakh ha. | 10.4 | 1.10 | 9.99 | 1.100 |
| 2 | Strengthening of PTLs | Nos. | 5500 | 0.70 | 5015 | 0.700 |
| 3 | NABL accreditaiton of SPTLs | Nos. | 4700 | 0.80 | 4700 | 0.800 |
| 4 | Establishment of Pesticide Residue Testing Laboratory | Nos. | 1 lab | 4.00 | | 4.000 |
| 5 | Est. Of Bio pesticides quality control lab | | 1 | | | |
| Plant Protection projects Total | | | | 6.60 | | 6.600 |

| Sl. No | Name of the Project | Unit | Target | | Achievement | |
|-------------|---|------|--------------|--------------|--------------|--------------|
| | | | Phy. | Fin. | Phy. | Fin. |
| C | Soil health management | | | | | |
| 1 | Mission project to boost productivity in Rainfed Areas of AP | ha | 66100 ha | 6.05 | 47822 ha | 6.05 |
| 2 | Bhuchetana- Mission project on bridging crop yield gaps through science led development in AP- ICRISAT | Nos. | 13 districts | 1.80 | 13 districts | 1.80 |
| 3 | Strengthening of STLs | Nos. | 13 labs | 0.65 | | 0.65 |
| | Soil Health Management Projects Total | | | 8.50 | | 8.50 |
| D | Organic Farming | | | | | |
| i) | Area Expansion under Organic Farming 350 ha in each District. | | | | | |
| 1 | Incentive for supply of organic inputs Rs. 5,000 per ha @ 350 ha/district | Ha. | 4550 ha | 2.27 | 930 | 2.27 |
| 2 | One Coordinator per district @ Rs.9,000/- per month and for 11 months | Nos. | 13 | 0.13 | 13 | 0.13 |
| 3 | Organic Certification Charges (@ Rs.70,000/-per district) | | -- | 0.09 | -- | 0.09 |
| 4 | Group formation , Documentation, ID Cards to farmers etc., (@Rs.1,00,000/-per dist) | | -- | 0.13 | -- | 0.13 |
| 5 | Organizing the trade fairs including incentive for packing and transport | | -- | 0.13 | -- | 0.12 |
| | Sub total | | | 2.75 | -- | 2.74 |
| ii) | Assistance for On Farm Generation of Organic Inputs | | | | | |
| 1 | Supply of BIS mark (IS 15907:2010) HDPE wooven beds for vermi culture @ 817 Nos. per district with a unit cost Rs. 5000/- | Nos. | 10621 | 5.31 | 10621 | 5.31 |
| 2 | Establishment of Vermi Hatcheries @ 10 Nos per district @Rs. 1,00,000 /- per unit | Nos. | 130 | 1.30 | 130 | 1.30 |
| | Sub total | | | 6.61 | -- | 6.61 |
| iii) | Trainings and Exposure visits | | | | -- | |
| 1 | Farmers trainings twice in a year once in each season to 500 Nos. of farmers per district for one day | Nos. | 26 | 0.13 | 26 | 0.13 |
| 2 | Exposure Visits outside the State(30 members (20 farmers & 10 officers) per district for 7 days | Nos. | 13 | 0.20 | 13 | 0.20 |
| 3 | One State level training to Coordinators & Officers for 2 days @Rs. 2,50,000 per training | Nos. | 1 | 0.03 | 1 | 0.03 |
| | Sub total | | | 0.36 | -- | 0.36 |
| iv) | Establishment of Art Liquid/carrier based Fertilizer production units | Nos. | 1 | 1.25 | -- | 1.25 |
| | Organic Farming Total | | | 10.97 | -- | 10.97 |
| F | Strengthening of Fertilizers Control Labs and Coding centres | Nos. | 4 labs | 1.00 | 4 labs | 1.00 |
| G | Farm Mechanization | | | | | |
| I | Custom hiring centers | | | | | |
| 1 | CHC for paddy | | | | | |
| A | Conversion of traditional paddy into slightly modified SRI system (SMSRI) | | 5 | 1.25 | 5 | 1.25 |
| B | Mini SMSRI centers | | 8 | 1.00 | 8 | 1.00 |
| C | Nursery Package | | 11 | 0.11 | 11 | 0.11 |
| 2 | Adapting Sugarcane cultivation to Mechanization(SSi) | | 1 | 0.75 | 1 | 0.75 |

| Sl. No | Name of the Project | Unit | Target | | Achievement | |
|-----------|--|------|--------|---------------|-------------|---------------|
| | | | Phy. | Fin. | Phy. | Fin. |
| 3 | CHC on Cotton | | 35 | 1.40 | 35 | 1.40 |
| 4 | CHC on Maize | | 6 | 0.90 | 6 | 0.90 |
| 5 | CHC on Ground nut | | 20 | 1.50 | 20 | 1.50 |
| 6 | CHC on harvesting package | | 19 | 2.36 | 19 | 2.36 |
| | CHC Total | | | 9.27 | | 9.27 |
| II | Other farm machinery | | | | | |
| 1 | Post Harvest items and procurement centers | Nos. | 4000 | 2.00 | 4000 | 2.00 |
| 2 | Implement Hiring Station | Nos. | 93 | 1.40 | 93 | 1.40 |
| 3 | Training and capacity building | Nos. | 87 | 0.03 | 87 | 0.03 |
| 4 | Agro processing centers – Distribution of Tarpaulins | Nos. | 3428 | 0.43 | 3428 | 0.43 |
| 5 | Solar fencing | Nos. | 67 | 0.40 | 67 | 0.40 |
| 6 | Paddy reaper | Nos. | | | | |
| a | Reaper cum binder | Nos. | 96 | 1.20 | 96 | 1.20 |
| b | Reapers | Nos. | | | | |
| 7 | Power tillers | | | | | |
| a | Power Tiller < 8 BHP | Nos. | 368 | 2.51 | 368 | 2.51 |
| b | Power Tiller > 8 BHP | | | | | |
| 8 | Seed cum ferti drills | Nos. | 102 | 0.45 | 102 | 0.45 |
| 9 | Maize shellers | Nos. | 400 | 0.80 | 400 | 0.80 |
| 10 | Multi crop threshers | Nos. | 50 | 0.75 | 50 | 0.75 |
| 11 | Rotovators/Rotopuddlers | Nos. | 397 | 2.50 | 397 | 2.50 |
| 12 | Power weeders | Nos. | 200 | 1.25 | 200 | 1.25 |
| 13 | Improved farm machinery | Nos. | 493 | 2.30 | 493 | 2.30 |
| 14 | Tai wan Sprayers | Nos. | 2800 | 2.80 | 2800 | 2.80 |
| | other farm machinery Total | | | 18.82 | | 18.82 |
| | FM total | | | 28.09 | | 28.09 |
| | Admn. expenses | | | 1.885 | | 1.885 |
| | Agriculture total | | | 83.945 | | 83.945 |

NATIONAL FOOD SECURITY MISSION

Objectives:

- Increasing production of rice and pulses through area expansion and productivity enhancement in a sustainable manner in the identified Districts in the State.
- Restoring soil fertility and productivity at the individual farm level.
- Creation of employment opportunities and
- Enhancing farm level economy i.e. farm profits to restore confidence amongst farmers.

Strategy:

- Implementation in a mission mode through active engagement of all the stakeholders at various levels.
- Promotion and extension of improved technologies i.e., seed, Integrated Nutrient Management including micro nutrients, soil amendments, IPM and Resource Conservation Technologies along with capacity building of farmers.
- Flow of fund would be closely monitored to ensure that interventions reach the target beneficiaries on time.
- Various interventions proposed would be integrated with the district plan and targets for each identified district would be fixed.
- Constant Monitoring and Concurrent Evaluation for assessing the impact of the interventions for a result-oriented approach by the implementing agencies.

Districts identified for Implementation:

Government of India have identified eleven Districts in Andhra Pradesh for implementation of National Food Security Mission-Rice which have potential but the present productivity is less than state average. Similarly, fourteen districts for pulses were identified till 2009-10. later pulses programmewas implemented in all 22 districts from 2010-11 to 2013-14.

After bifurcation of the AP state, the NFSM Rice scheme is being implemented in 5 districts and NFSM- Pulses in all 13 districts. Technology mission on Cotton & Jute was also brought under NFSM Commercial Crops (Cotton, Mesta & Sugarcane)

NFSM-Rice (5 Districts):

1. Srikakulam
2. Vizianagaram
3. Visakhapatnam
4. Ananthapuramu
5. YSR Kadapa.

NFSM-Pulses: – All 13 districts

NFSM – Coarse cereals:

1. Srikakulam
2. Vizianagaram
3. Visakhapatnam
4. East Godavari
5. Ananthapuramu
6. Kurnool
7. Chittoor.

NFSM – Cotton:

1. Srikakulam
2. Vizianagaram
3. Krishna
4. Guntur
5. Prakasam
6. Kurnool

NFSM Mesta:

1. Srikakulam.
2. Vizianagaram.

NFSM – Sugarcane: All districts except Ananthapuramu & Prakasam.

NFSM – Additional area coverage under Pulses:

- NFSM-Addl. area coverage under pulses is another step forward for vigorous implementation of the pulse development under the NFSM – Pulses.
- NFSM-Addl. area coverage under pulses has been conceptualized to take up the active propagation of key technologies such as Integrated Nutrient Management (INM) and Integrated Pest Management (IPM) in a manner that creates catalyzing impact by assuring farmers of the higher returns from the identified pulse crops and bringing additional area during rabi/summer season.
- Each NFSM-Addl. area coverage under pulses unit form of a village level block demonstration covering an area of 100 hectares.
- Kits containing critical inputs including Seeds, Gypsum, Micronutrient, Rhizobium culture, PSB, P.P. Chemicals etc. to be given to all the farmers in each unit on subsidized cost for a maximum area of 2 hectares.
- Seeds were supplied through APSSDC and other Minikits were supplied through APSAIDC to the beneficiary farmers.

Target vs Achievement for the year 2014-15:

(Financial in Rs. Lakhs)

| S. No. | Scheme | Targets | | Achievements | |
|--------|--------------------------------------|----------------|-----------------|----------------|-----------------|
| | | Phy. | Fin. | Phy. | Fin. |
| 1 | NFSM – Rice | 162695 | 2849.86 | 123345 | 2512.94 |
| 2 | NFSM – Pulses* | 1126911 | 9507.39 | 1126911 | 9507.39 |
| 3 | NFSM – Coarse Cereals | 15849 | 641.67 | 5077 | 305.32 |
| 4 | NFSM – Cotton | 313 | 24.00 | 313 | 24.00 |
| 5 | NFSM – Mesta | 634 | 51.04 | 513 | 20.26 |
| 6 | NFSM – Sugarcane | 120 | 9.60 | 120 | 9.60 |
| 7 | NFSM – Addl. area coverage of Pulses | 23500 | 980.00 | 23500 | 980.00 |
| | Total | 1330022 | 14063.56 | 1279779 | 13359.51 |

NATIONAL MISSION ON OILSEEDS (NMOOP)

The ongoing scheme i.e Integrated Scheme of Oilseeds, Oilpalm and Maize (ISOPOM) have been restructured into National Mission on Oilseeds and Oilpalm (NMOOP) from 2014-15 onwards.

Keeping this in view the flagship schemes launched by Government of India during 11th plan like ISOPOM-Oilseeds, Oilpalm& Maize, are continued in 12th plan as MM-I for Oilseeds & MM-II for Oilpalm under NMOOP Scheme and Maize scheme was merged in National Food Security Mission scheme from 1st April 2014.

Objective:

The NMOOP envisages increase in Production of vegetable oils sourced from Oilseeds, Oilpalm and TBOs from 7.06 million tonnes (average of 2007-08 to 2011-12) to 9.51 million tonnes by the end of Twelfth Plan (2016-17).

The Mission is proposed to be implemented through three Mini Missions with specific target as detailed below:

| Name of scheme | Implementing Department |
|-------------------------------|--------------------------------|
| MM I on Oilseeds | Department of Agriculture |
| MM II on Oilpalm | Department of Horticulture |
| MM III on Tree Borne oilseeds | Department of Forests |

Rainfall, Weather & Pest Situation:

| Monsoon | Normal | 2014-15 | % deviation | Status |
|---|---------------|----------------|--------------------|---------------|
| South-West Monsoon (June to Sept 14) | 554 | 376 | -32% | Deficient |
| North East Monsoon (1 st Oct to 31 st Dec 14) | 298 | 179 | -40% | Deficient |
| Winter period (1 st Jan to 28 th Feb 15) | 16 | 3 | -82% | Scanty |
| Hot weather period (1 st March to 18 th March 15) | 7 | 6.5 | -8% | Normal |
| Total | 875 | 564 | -36% | Deficient |

| Sl.No | District | June 2014 to March 2015 | | | |
|-----------------------|---------------|-------------------------|------------|--------------|------------------|
| | | Normal | Actual | Dev | Status |
| 1 | Srikakulam | 1020 | 913 | -10.5 | Normal |
| 2 | Vizianagaram | 977 | 931 | -4.7 | Normal |
| 3 | Visakhapatnam | 1045 | 857 | -18.1 | Normal |
| 4 | East Godavari | 1103 | 570 | -48.3 | Deficient |
| 5 | West Godavari | 1058 | 572 | -46 | Deficient |
| 6 | Krishna | 959 | 552 | -42.4 | Deficient |
| 7 | Guntur | 781 | 463 | -40.6 | Deficient |
| 8 | Prakasam | 806 | 424 | -47.4 | Deficient |
| 9 | Nellore | 1015 | 550 | -45.8 | Deficient |
| 10 | Chittoor | 850 | 471 | -44.6 | Deficient |
| 11 | Kadapa | 650 | 332 | -49 | Deficient |
| 12 | Anantapur | 498 | 285 | -42.8 | Deficient |
| 13 | Kurnool | 612 | 411 | -32.8 | Deficient |
| Andhra Pradesh | | 875 | 564 | -35.5 | Deficient |

Weather Condition 2014-15

From 1st June to 18th March 2015, Deficient rainfall recorded in the state i.e Rayalaseema (-43%), North Coastal(-26%) and South Coastal (-44%). The overall state average received in Andhra Pradesh is 564mm as against normal of 875 which is deficient by (-36%).

Production Prospects: (as per 4th advance estimates)

| Crop | Area (thousand Ha) | | | Production in thousand tonnes | | | Yield (Kgs/ha) | | |
|-----------------------|--------------------|------------|-------------|-------------------------------|------------|-------------|----------------|------|-------|
| | Kharif | Rabi | Total | Kharif | Rabi | Total | Kharif | Rabi | Total |
| Groundnut | 1086 | 90 | 1176 | 681 | 199 | 880 | 627 | 2210 | 748 |
| Castor | 48 | 1 | 49 | 25 | 1 | 26 | 522 | 522 | 522 |
| Sesamum | 28 | 33 | 61 | 13 | 6 | 19 | 449 | 175 | 311 |
| Niger seed | 0 | 9 | 9 | 0 | 4 | 4 | 0 | 433 | 433 |
| Soybean | 3 | 0 | 3 | 5 | 0 | 5 | 1610 | 0 | 1610 |
| Sunflower | 18 | 62 | 80 | 14 | 53 | 67 | 788 | 847 | 838 |
| Rape seed and Mustard | 0 | 4 | 4 | 0 | 2 | 2 | 0 | 411 | 411 |
| Total | 1183 | 199 | 1382 | 738 | 265 | 1003 | | | |

- June sown crop:

Groundnut crop sown during the month of June was effected due to prolonged dry spell i.e., from 11-06-2014 to 29-06-2014 (19 days) and from 12-07-2014 to 17-08-2014 (37 days) and crop exposed to severe moisture stress conditions. The crop was recovered vegetatively due to receipt of the rainfall but growth was very stunted and not noticed any peg formation

- July sown crop :

Groundnut crop sown during the month of July was suffered due to two moisture stress periods i.e., 12-07-2014 to 17-08-2014 and 28.8.14 to 12.9.14. The crop was vegetatively recovered due to receipt of rainfall from 18th to 28th August (45.8mm). But the crop was exposed severe moisture stress conditions from 28-08-2014 to 12-09-2014 which was coincided with the pod formation and pod development stages causes ultimate yield reduction

- August sown crop:

Groundnut sowing continued during 2nd fortnight of August which was not recommended. But, sowings were taken due to receipt of rainfall during 2nd fortnight of August. This crop was affected due to severe moisture stress at early stage of the crop i.e., **from 29-08-2014 to 16-09-2014 (19 days)**. The crop was exposed another dryspell **from 11-10-2014 to 24-10-2014 (14 days)** which was coincide with the pegging and peg penetration stages of the crop causes yield reduction

Pest scenario: Leaf minor, leaf spot, leaf webber, are noticed on Groundnut but the intensity of Pest/diseases is below ETL

Area of Operation: The scheme is implemented in all districts of Andhra Pradesh

STRATEGIES FOLLOWED FOR IMPLEMENTING THE PROGRAMME

- Increasing Seed Replacement Ratio (SRR) with focus on Varietal Replacement.
- Increasing irrigation coverage under oilseeds from 26% to 36%.
- Focus on low productivity and high potential areas.
- Diversification of area from low yielding cereals crops to oilseeds crops.
- Promotion and extension of improved technologies i.e., seed, integrated nutrient management (INM) including micronutrients, soil amendments, integrated pest management (IPM), input use efficiency and resource conservation technologies along with capacity building of the farmers/extension functionaries.
- Constant monitoring and concurrent evaluation by the implementing agencies for assessing the impact of the interventions for a result oriented approach.

BEST MANAGEMENT PRACTICES ADOPTED:

- Varietal Replacement Ratio (VRR): Replacement of old varieties with recently released varieties of less than 10 years
- Popularization of drought tolerant, high yielding and short duration varieties, vizi, K9, Dharani, Anantha and Kadiri Harithandhra.
- Timely application of Gypsum and micronutrients increased pod yields by 18-20%.
- Promoting intercropping with redgram
- Sowing through Multi crop planter for maintaining plant optimum population .
- Popularization of pre emergence weedicides for effective control of weeds.
- Effective use of water through sprinkler sets and water carrying pipes in low water availability areas.
- Capacity building : On farm training through FFS
- Planning with Research back up by working in co-ordination with Scientists of State Agriculture University and ICAR units like KVKs to extend timely guidance.

The Scheme was implemented with the following components.

Purchase of Breeder seed: 225.4 Qtls of K6 variety of Groundnut seed is purchased by APSSDC against target of 260 qtls for multiplication with an amount of Rs.22.545 lakhs.

Production of Foundation seed: 989 Qtls of Groundnut foundation seed is produced against target of 989 Qtls with an expenditure of Rs.9.89 lakhs

Production of Certified seed: 1319 qtls of certified groundnut certified seed is produced against target of 1319 qtls with an expenditure of Rs.13.19 lakhs.

Distribution of certified seed: 33182.35 qtls of K6 certified groundnut seed is distributed against target of 47025 Qtls with an expenditure of Rs. 559.280 lakhs and the seed is supplied by APSSDC, AP Oilfed, MARKFED and HACA.

Manually operated Knapsack sprayers: 617 No. of Manually operated knapsack sprayers are distributed with an amount of Rs.4.832 lakhs.

Power Sprayers: 92 No. of sprayers are supplied against target of 165 no. of sprayers with an expenditure of Rs.8.45 lakhs

PP. Chemicals: 2302 ha is covered with P.P. Chemicals against target of 2000 ha by incurring expenditure of Rs.10.83 lakhs.

Weedicides: 1770 ha is covered with weedicides against target of 2000 ha by incurring expenditure of Rs.8.439 lakhs.

Micronutrients: 2568 ha is covered with micronutrients against target of 4246 ha with an expenditure of Rs.12.049 lakhs

Gypsum: 5010 ha of area is covered with Gypsum against target of 8245 ha with an expenditure of Rs.37.264 lakhs. Gypsum is supplied with 50% subsidy for reclamation of soils, where the assistance provided for supply of gypsum under MM I on oilseeds is Rs.750/- ha. Hence there is short fall in achievement.

Manual/ Bullock drawn farm implements: 17 No. of farm implements are supplied with an expenditure of Rs.1.1.0 lakhs

Tractor driven farm implements : There is huge demand for Rotavators and 229 of rotavators are supplied against target of 66 No. with an expenditure of 128.015 lakhs.

Portable sprinkler irrigation system : 3421 ha is covered with sprinkler irrigation system against target of 4602 Ha with an expenditure of Rs.296.665 lakhs. Only 238 no. of mandals comes under DPAP/DDP districts out of 664 mandals of Andhra Pradesh i.e only 36% of area will be covered under DPAP/DDP, where SF/MF farmers can avail 50% subsidy on actual cost of installation. In the remaining 64% area, SF/MF farmers have to avail 35% subsidy on actual cost of installation of sprinkler irrigation system. Hence there is shortfall in achievement of sprinkler irrigation system.

Water carrying pipes: 941069 mtrs of water carrying pipes are supplied against target of 1593000 mts with an expenditure of Rs.232.748 lakhs. The reason for shortfall in achievement of water carrying pipes is due to provision of less subsidy i.e 50% of cost limited to Rs.25/- per meter with a maximum ceiling of 600 mts length and cost of Rs.15000/- per farmer for all types of Water carrying pipes i.e. PVC, HDPE etc and all sizes as per requirement of farmer

Seed storage bins: 25 No. of storage bins are supplied against target of 330 No. with an expenditure of Rs.0.510 lakhs. Since the subsidy provided for storage bins is 25% of cost limited maximum of Rs.2000/- per bin of 20 Qtls only, the target could not be achieved.

Block demonstrations: 2481 ha of area is covered with block demonstrations of Groundnut, Sesamum, castor and sunflower against target of 3340 ha. Since there is -36% deficit in rainfall, the targeted no. of demonstrations could not be achieved. In Ananthapur there is demand for Safflower, hence 250 ha of area is covered with Safflower demonstrations with an expenditure of Rs.2.97 lakhs.

Farmers Field Schools: 310 No. of FFS were organized by incurring expenditure of Rs 57.05 lakhs against allocation of Rs.82.77 lakhs. The reason for booking less expenditure is due to unfavourable seasonal conditions.

Farmers trainings: 11 No. of farmer trainings are organized against target of 13 No. with an expenditure of Rs.2.592 lakhs.

Officers trainings: 4 No. of officers trainings are organized with an expenditure of Rs.1.248 lakhs.

Mission Management expenses: (100 % funded by GOI)

Publicity:22.499 lakhs is the expenditure incurred for printing of literature and other publicity material.

Exposure visit to farmers: 5 No. of exposure visits are organized with an amount of Rs.8.331 lakhs.

Contingency: Assistance will be provided to the districts to meet the contingencies for implementation/monitoring of the scheme on 75:25 cost sharing basis between GOI and State governments. Rs. 10.196 lakhs is the expenditure incurred for contingency component.

State level consultant: Sri P. Nagarjun is appointed as State level consultant and an amount of Rs.3.12 lakhs is paid to him.

Hiring of private vehicle: An amount of Rs.3.00 lakhs is provided for hiring of private vehicle.

Flexi funds:

Distribution of certified seed: 12758.4 qtls of groundnut seed is distributed with an expenditure of Rs. 215.617. The subsidy provided for seed is Rs.1800/- qtls to the drought effected districts.

On farm demonstrations:

In order to enhance the productivity, special program involving gross root level extension functionaries and farmers is conducted i.e On Farm demonstrations (OFDs) with latest technological interventions and by close monitoring. The farmers are also be exposed to these interventions at different crop growth stages to realise the advantage of these interventions in enhancing the productivity. For conducting OFDs, an amount of Rs.5000/ ha is provided as input subsidy

Additional programme with tractor driven implements and Water carrying pipes: 1192 No. of Tractor driven implements like Rotovators and 133041 mtrs of Watercarrying pipes are distributed as additional Programme.

Pending Bills of ISOPOM Oilseeds and Maize: An amount of Rs. is incurred to clear the pending liabilities of ISOPOM Oilseeds and Pulses is Rs.1402.959 lakhs

Budget Releases:

The following are the Budget release details under MM I on Oilseeds under NMOOP 2014-15

| S.NO. | Reference of GO | General | SCP | TSP | Total |
|-------|--|----------------|----------------|---------------|----------------|
| 1 | Go Rt. No.2478 dt 30.9.2014 of Fin (ERBS-II-A-C-AHFCS-E) dept of GoAP and GO Rt No. 537 A&C (Agri III) dept dt 9.10.2014 | 621.766 | 141.144 | 66.42 | 829.33 |
| | DTA authorisation | | | | |
| | Proc.No. Bud (1)675/2014-1 dt 6/11/2014 | 554.182 | 126.993 | 59.745 | 740.92 |
| | Proc.No. Bud (1)675/2014 dt 3/12/2014-2B | 1.8 | | | 1.8 |
| | Proc.No. Bud (1)675/2014-3 dt15/11/2014 | 3.84 | | | 3.84 |
| | Proc.No. Bud (1)675/2014-4 dt 6/11/2014 | 61.944 | 14.151 | 6.675 | 82.77 |
| | Sub total | 621.766 | 141.144 | 66.42 | 829.33 |
| 2 | GO RtNo. 276 Fin (EBS II A-C-AHFCS-E) Dept dt 13.2.15 and GORt No. 107 A&C (Agri III) dept dt 23/2/15 | 2225.12 | 338.46 | 366.14 | 2929.72 |
| | Proc.No. Bud (1)675/2014-4 dt 9/3/15 | 759.32 | 115.60 | 315.00 | 1189.92 |
| | Proc.No. Bud (1)675/2014-1A dt 9/3/15 | 1387.00 | 222.86 | 51.14 | 1661.00 |
| | Proc.No. Bud (1)675/2014 dt 9/3/15 | 12.87 | | | 12.87 |
| | Proc.No. Bud (1)675/2014-1 dt 9/3/15 | 65.93 | 0.00 | 0.00 | 65.93 |
| | Sub total | 2225.12 | 338.46 | 366.14 | 2929.72 |
| 3 | GO RtNo. 235 Fin (EBS II A-C-AHFCS-E) Dept dt 31.3.2015 and GORt No. 1333 A&C (Agri III) dept dt 31.3.2015 | 702.61 | 112.83 | 30.05 | 845.49 |
| | Procgs.No.(1) 675/2014 dt 31.3.2015 | 702.61 | 112.83 | 30.05 | 845.49 |
| | Total releases | 3549.50 | 592.43 | 462.61 | 4604.54 |
| | Releases | | | | |
| | Ist installment | | | | |
| | GOI | 466.33 | 105.86 | 49.82 | 622.00 |
| | State | 155.44 | 35.29 | 16.61 | 207.33 |
| | Total 1st installment | 621.77 | 141.14 | 66.42 | 829.33 |
| | Release for revalidated amount | | | | |
| | GOI | 2225.120 | 338.460 | 366.140 | 2929.720 |
| | State | 702.61 | 112.83 | 30.05 | 845.49 |
| | Total 1st installment | 2927.73 | 451.29 | 396.19 | 3775.21 |
| | Total releases | | | | |
| | GOI | 2691.45 | 444.32 | 415.96 | 3551.72 |
| | State | 858.05 | 148.12 | 46.66 | 1052.82 |
| | Total 1st installment | 3549.50 | 592.43 | 462.61 | 4604.54 |
| | Total releases | 621.77 | 141.14 | 66.42 | 829.33 |
| | Expenditure incurred | | | | |
| | GOI | 2479.781 | 250.509 | 252.788 | 2983.078 |
| | State | 730.907 | 80.458 | 71.231 | 882.596 |
| | Total expenditure | 3210.688 | | | |
| | Unspent balance available as on 1.4.2015 (GOI share) | 211.67 | 193.81 | 163.17 | 568.64 |

PROGRESS UNDER MMI ON OILSEEDS UNDER NMOOP 2014-15

| Sl. No. | Name of the Component | Unit | Target | | | | Achievements | | | |
|---------|--|-------|---------|--------------------|-----------------|-----------------|--------------|-------------------|----------------|-----------------|
| | | | Phy | Fin (Rs. in lakhs) | | | Phy | Fin (Rs in lakhs) | | |
| | | | | GOI | State | Total | | Central | state | Total |
| I | Seed Component | | | | | | | | | |
| 1 | Purchase of Breeders seed | Qtls. | 260 | 38.48 | 0.00 | 38.48 | 225.4 | 22.545 | 0.000 | 22.545 |
| 2 | Production of Foundation seed | Qtls. | 989 | 7.42 | 2.47 | 9.89 | 989 | 7.418 | 2.473 | 9.890 |
| 3 | Production of Certified seed | Qtls. | 1319 | 9.89 | 3.30 | 13.19 | 1319 | 9.893 | 3.298 | 13.190 |
| 4 | Certified Seed Subsidy | | | | | | | | | |
| | a) Varieties | Qtls. | 47025 | 423.23 | 141.08 | 564.31 | 33182.35 | 419.460 | 139.820 | 559.280 |
| | b) Hybrids | Qtls. | 660 | 12.37 | 4.12 | 16.49 | | | | |
| II | Production Inputs | | | | | | | | | |
| 5 | Plant Protection Equipment | | | | | | | | | |
| a | Manually operated Knap-Sack Sprayers | Nos | 578 | 3.47 | 1.16 | 4.62 | 617 | 3.624 | 1.208 | 4.832 |
| b | Power Sprayers | Nos | 165 | 12.38 | 4.13 | 16.50 | 92 | 6.338 | 2.113 | 8.450 |
| 6 | Plant Protection Chemicals | | | | | | | | | |
| a | PP Chemicals | | 2000 | 7.50 | 2.50 | 10.00 | 2302 | 8.123 | 2.708 | 10.830 |
| b | Weedicides | | 2000 | 7.50 | 2.50 | 10.00 | 1770 | 6.329 | 2.110 | 8.439 |
| c | Micro Nutrients, | | 4246 | 15.92 | 5.31 | 21.23 | 2568 | 9.037 | 3.012 | 12.049 |
| 7 | Distribution of Gypsum | Ha | 8245 | 46.38 | 15.46 | 61.84 | 5010 | 27.948 | 9.316 | 37.264 |
| 8 | Supply of Rhizobium culture | Ha. | 2473 | 5.56 | 1.86 | 7.42 | | | | |
| 9 | Supply of improved farm implements | | | | | | | | | |
| a | Manual / Bullock drawn | Nos | 264 | 19.80 | 6.60 | 26.40 | 17 | 0.825 | 0.275 | 1.100 |
| b | Tractor driven Farm Implements | Nos | 66 | 31.19 | 10.40 | 41.58 | 229 | 96.011 | 32.004 | 128.015 |
| 10 | Portable Sprinkler irrigation | Ha | 4602 | 345.14 | 115.05 | 460.19 | 3421 | 222.4984 | 74.1661 | 296.665 |
| 11 | Pipes for carrying water | Nos. | 1593000 | 298.68 | 99.56 | 398.24 | 941069 | 174.561 | 58.187 | 232.748 |
| 12 | Seed Storage Bins | Nos. | 330 | 4.95 | 1.65 | 6.60 | 25 | 0.383 | 0.128 | 0.510 |
| III | Transfer of Technology | | | | | | | | | |
| 13 | Block Demonstrations | | | | | | | | | |
| | Groundnut | Ha. | 2160 | 119.28 | 42.00 | 162.02 | 2001 | 65.8470 | 21.9490 | 87.7960 |
| | Sesamum | Ha. | 200 | 4.50 | 1.50 | 6.00 | 150 | 0.650 | 0.217 | 0.867 |
| | Castor | Ha. | 500 | 11.25 | 3.75 | 15.00 | 50 | 0.563 | 0.188 | 0.750 |
| | Sunflower | Ha. | 480 | 14.40 | 4.80 | 19.20 | 280 | 4.558 | 1.519 | 6.077 |
| | Safflower | Ha | 250 | 2.24 | 0.75 | 2.98 | 250 | 2.228 | 0.743 | 2.970 |
| 14 | Integrated Pest Management (FFS) | Nos | 310 | 62.08 | 20.69 | 82.77 | 310 | 42.788 | 14.263 | 57.050 |
| 15 | Farmers Training | Nos | 13 | 2.34 | 0.78 | 3.12 | 11 | 1.944 | 0.648 | 2.592 |
| 16 | Officer's/Extension workers Training | Nos | 7 | 1.89 | 0.63 | 2.52 | 4 | 0.936 | 0.312 | 1.248 |
| 17 | Mission Managemnt Expenses | | | | | | | | | |
| a | Publicity | | | 40.00 | | 40.000 | | 22.499 | | 22.499 |
| b | Exposure visits to farmers | Nos | | 28.67 | 0.00 | 28.665 | 5 | 8.331 | | 8.331 |
| c | Contingency , Monitoring & Evaluation | | | 14.00 | 0.00 | 14.003 | | 10.196 | | 10.196 |
| d | State level Consultants | | | 3.13 | 0.00 | 3.132 | | 3.120 | | 3.120 |
| f | Hiring of Vehicles | | | 3.00 | 0.00 | 3.000 | | 3.000 | | 3.000 |
| IV | Flexy Funds | | | 177.14 | 59.05 | 236.19 | | | | |
| | Distribution of Certified seed | Qtls. | | | | | 12758.4 | 161.713 | 53.904 | 215.617 |
| | On farm demonstrations | Ha | | | | | 501 | 7.335 | 2.445 | 9.780 |
| | Grand Total | | | 1773.77 | 551.07 | 2325.58 | | 1350.698 | 427.002 | 1777.700 |
| V | Addl.programme | | | | | | | | | |
| | Tractor driven Farm Implements | Nos | 1271 | 600.460 | 200.15 | 800.610 | 1192 | 481.916 | 160.639 | 642.555 |
| | Water carrying pipes | Mtrs | 300000 | 56.250 | 18.75 | 75.000 | 133041 | 31.845 | 10.615 | 42.460 |
| VI | Pending bills of ISOPOM Oilseeds and Maize | | | 1119.01 | 284.34 | 1403.35 | | 1118.619 | 284.340 | 1402.959 |
| | Grand total | | | 3551.720 | 1052.823 | 4604.540 | | 2983.078 | 882.596 | 3865.674 |

District wise targets & Achievements under MMION Oil seeds under NMOOP during 2014-15

| District | Phy Target | | | | Fin Target | | | | Phy Achievement | | | | Fin Achievement | | | |
|-----------------------|----------------|---------------|---------------|----------------|-------------|------------|------------|-------------|-----------------|--------------|--------------|----------------|-----------------|------------|------------|-------------|
| | Gen. | SCP | TSP | Total | Gen. | SCP | TSP | Total | Gen. | SCP | TSP | Total | Gen. | SCP | TSP | Total |
| Srikakulam | 40911 | 9273 | 4367 | 54551 | 33 | 7 | 4 | 44 | 11151 | 2595 | 713 | 14427 | 28 | 5 | 3 | 36 |
| Vizianagaram | 51187 | 11603 | 5459 | 68249 | 53 | 14 | 7 | 74 | 74799 | 71 | 706 | 75542 | 45 | 7 | 7 | 59 |
| Visakhapatnam | 40427 | 9160 | 4314 | 53901 | 36 | 8 | 4 | 47 | 24417 | 6749 | 56 | 31186 | 26 | 4 | 1 | 31 |
| E.Godavari | 10470 | 2374 | 1117 | 13961 | 15 | 4 | 3 | 22 | 12754 | 38 | 64 | 12827 | 14 | 2 | 3 | 18 |
| W.Godavari | 44984 | 10198 | 4800 | 59982 | 39 | 10 | 5 | 54 | 16509 | 1866 | 2471 | 20815 | 33 | 4 | 3 | 39 |
| Krishna | 18795 | 4261 | 2005 | 25061 | 18 | 4 | 2 | 24 | 15780 | 638 | 18 | 16430 | 15 | 1 | 0 | 17 |
| Guntur | 27458 | 6224 | 2929 | 36611 | 20 | 5 | 2 | 27 | 250 | 57 | 64 | 340 | 6 | 1 | 0 | 7 |
| Prakasam | 97950 | 22200 | 10448 | 130598 | 81 | 18 | 9 | 108 | 46985 | 10406 | 3696 | 61083 | 41 | 9 | 4 | 55 |
| Nellore | 33337 | 7557 | 3557 | 44451 | 29 | 6 | 3 | 38 | 17022 | 3165 | 1317 | 21446 | 17 | 4 | 1 | 22 |
| Kurnool | 198211 | 44928 | 21143 | 264282 | 328 | 74 | 34 | 436 | 125484 | 6540 | 1275 | 133116 | 316 | 40 | 9 | 365 |
| Anantapur | 405261 | 91850 | 43227 | 540338 | 623 | 141 | 65 | 829 | 538927 | 14617 | 5286 | 558406 | 634 | 30 | 16 | 680 |
| Kadapa | 161943 | 36706 | 17273 | 215922 | 234 | 52 | 25 | 311 | 26450 | 1224 | 1107 | 28657 | 217 | 21 | 9 | 247 |
| Chittoor | 87505 | 19834 | 9333 | 116672 | 231 | 52 | 25 | 308 | 100723 | 15859 | 4616 | 120966 | 188 | 14 | 4 | 207 |
| Andhra Pradesh | 1218439 | 276168 | 129972 | 1624579 | 1740 | 394 | 188 | 2323 | 1011251 | 63825 | 21389 | 1095243 | 1580 | 143 | 61 | 1784 |
| C&DA | | | | | | | | | | | | | 14 | 0 | 0 | 14 |
| Grand Total | 1218439 | 276168 | 129972 | 1624579 | 1740 | 394 | 188 | 2323 | 1011251 | 63832 | 21392 | 1095246 | 1593 | 143 | 61 | 1797 |
| B/s | 225 | 0 | 0 | 225 | 29 | 6 | 3 | 38 | 225 | 0 | 0 | 225 | 22 | 0 | 0 | 23 |
| Prodn cs | 742 | 168 | 79 | 989 | 8 | 2 | 1 | 10 | 742 | 168 | 79 | 989 | 7 | 2 | 1 | 10 |
| Prodn fs | 989 | 224 | 106 | 1319 | 10 | 2 | 1 | 13 | 989 | 224 | 106 | 1319 | 10 | 2 | 1 | 13 |
| CS | 25901 | 5199 | 2083 | 33182 | 441 | 93 | 46 | 581 | 25901 | 5199 | 2083 | 33182 | 436 | 89 | 35 | 559 |
| Flexi seed | 7635 | 3530 | 1593 | 12758 | 177 | 40 | 19 | 236 | 7635 | 3530 | 1594 | 12758 | 129 | 60 | 27 | 216 |
| Pending bills | | | | | 1067 | 225 | 112 | 1403 | | | | | 1013 | 36 | 199 | 1248 |
| Total | 1253931 | 285289 | 133833 | 1673053 | 3472 | 762 | 371 | 4605 | 1046743 | 72953 | 25253 | 1143720 | 3210 | 331 | 324 | 3866 |

ORGANIC FARMING

Objective:

- The Practice of organic farming with natural system with judicious use of available natural resources said to be the best known alternative to the conventional method.
- Organic agriculture aims at the human welfare without any harm to the environment which is the foundation of human life itself.
- The need for organic farming arises from the un-sustainability of agriculture production and the damage caused to ecology through the conventional farming practices.

Initiatives for promotion of Organic Farming:

- Support for Organic inputs i.e. Vermi compost, Green Manure Seed, Bio fertilizers.
- Certification of Organic farming
- Capacity Enhancement to the farmer

Strategies for promotion of Organic Farming

- Small holding farmers who apply similar production systems and whose farms are in geographical proximity are identified and formed into Group.
- Farmer groups are registered as societies under A.P. Registration act.
- Farmers were given trainings on Certification Procedures, Plant protection methods, use of Bio fertilizers, Bio pesticides etc.
- Field demonstrations on preparation of plant extracts like NSKE and leaf based extracts, Jeevamrutham, Panchagavaya etc.
- Field assistance to farmers for documentation of field records, input distribution etc., by a Coordinator engaged on contract basis.
- Input incentive will be provided for procurement of need based bio inputs like Bio fertilizers, Bio pesticides, Vermi compost, Neem Oil etc.
- Internal inspections by the district FTC officers looking after the scheme.
- Grower Group Certification by GOI accredited agencies to provide common marketing facility to the members of a group.
- Arranging Exposure Visits outside the state to share experiences of other organic farmers.
- Conducting trade fairs by providing incentives for processing, packing, transport.
- Buyer seller meets to explore marketing avenues for better price to organic products than the conventional produce.
- Printing literature on organic farming and creating publicity among the consumers on use of organic products.

During 2014-15 the following schemes are implemented for promotion of Organic Farming in the state with financial allocations under RKVY.

1. Area Expansion under Organic Farming in 350 ha each district:

Organic Certification:

To achieve sustainable rural development through increased product value, reduced cost of production, direct access, decreased dependency on external inputs and ecofriendly food production techniques. Certification is a system by which the consumer is assured for the quality of the product.

- Promotion of Certified organic farming in an area of 4550 ha @ 350 ha in each district.
- Crops like Rice, Red gram, Black gram, Rajma, Bengal gram, Groundnut, Vegetables, Mango etc., are covered under Organic Certification.
- Supply organic inputs worth Rs.5000/-ha to the registered farmers under the scheme as incentive.
- One Coordinator appointed in each district to assist the farmers in documentation and Internal Control System.
- Providing trainings and exposure visits to farmers and officers for capacity building.
- Organizing Buyer seller meets and Organic trade fairs to facilitate marketing.
- Arranging Grower Group Organic Certification by Vedic Organic Certification Agency, Hyderabad and Apof Organic Certification Agency, Bangalore.
- During 2014-15, Certified organic farming is targeted in an area of 4550 ha @ 350 ha in each district and area achieved under Certified Organic farming is 4287 ha incurring an expenditure of Rs.217 lakhs.

2. On farm generation of organic inputs through vermi compost units and vermi hatcheries.

Vermi composting reduces the cost of cultivation and increases the yield both in qualitative and quantitative terms and reduce the inorganic fertilizer application. Soil fertility will be improved both in terms of structural and nutrient aspects. Gradual shifting of cultivation from inorganic to organic. Department is promoting Organic farming in the state by providing assistance for on farm generation of organic inputs by Supply of HDPE woven beds for vermi culture and Establishment of Vermi hatcheries.

A. Bis mark (is 15907:2010 specification) hdpe woven beds for vermi culture

- Portable Vermi beds are having advantage over the excavated pot hole structure like they can shift to any place with minor expenses.
- Being cost economic more number of small and marginal farmers can be motivated towards Vermi composting.

- Unit cost of HDPE woven beds for Vermi culture is Rs.10000/- and 50% subsidy cost Rs.5000/ unit (Cost of Vermi bed and supply of earthworms).
- It is targeted to supply 10,621 portable Vermibeds@817 /district and supplied 10,104 nos to districts during 2014-15 incurring expenditure of Rs.636.22 Lakhs.

B. VERMI HATCHERIES

- Vermi hatcheries ensure local availability of earth worms at mandal level.
- Facilitate timely supply of quality earthworms to the newly established Vermi units.
- Each Vermi hatchery can produce 500 kg earthworms besides 20 MT Vermi compost as by product.
- By selling earth worms farmer gets secondary income besides enriching his own field with Vermi Compost. (Market cost of earth worms is Rs.125/kg and Vermi compost is Rs.5000/-MT)
- Unit cost of Vermi hatchery is Rs.2.00 Lakh and 50% subsidy cost Rs.1.00 lakh/ unit.

During 2014-15, It is targeted to establish 130 Vermihatcheries in the state and an amount of Rs.108 lakhs have been released to districts towards establishment of 108 Vermihatchery units.

STATE AGRICULTURAL MANAGEMENT AND EXTENSION TRAINING INSTITUTE **(SAMETI)**

SAMETI is registered under Societies Registration Act 1860 & functioning as an Autonomous body from the year 2000 after up-gradation of Agricultural Staff Training Institute (ASTI). At present, it is located at Gorantla, Guntur.

A BRIEF HISTORY:

It was originally established in the year 1966 as Plant Protection Training Centre (PPTC) to build up technical knowledge with latest Agricultural information to the extension staff to meet the situations of large and frequent pest outbreaks. The field workers were being trained in monitoring and identifying different pests and diseases. Hence, the institute was renamed as State Institute of Plant Protection and Pest Surveillance (SIPP & PS) in 1976.

Later on, the Soil Conservation Training Centre (SCTC) was merged with the institute and the name of institute was changed to Agricultural Staff Training Institute (ASTI) in 1989. The Institute was working under the administrative control of the Commissioner of Agriculture, Andhra Pradesh, Guntur.

The Govt. of Andhra Pradesh decided to upgrade and strengthen the existing ASTI as State Agricultural Management & Extension Training Institute (SAMETI) as an Autonomous body in order to cater the training needs and human resource development of the middle level functionaries of Agriculture, Horticulture, Animal Husbandry and other line departments. Besides, the staff of ATMA in the districts is also trained under Extension Reforms. The Institute is managed by the General & Executive Councils. The Principal Secretary, Agril & Cooperation to the Government of Andhra Pradesh is the Chairman of SAMETI, AP. The Institute is headed by a Director (in the cadre of Addl. Director of Agriculture) assisted by Asst. Directors of Agriculture and Agricultural Officers alongwith supporting ministerial staff.

AIMS AND OBJECTIVES OF SAMETI

- To provide extension management input for extension functionaries of Agricultural and allied departments.
- To develop systematic linkages between the allied departments, state universities and regional and national institutes of outstanding accomplishments in the field of Agriculture.
- To study the Agricultural Extension Management Systems and policies together with operational problems and constraints at all levels.
- To promote and develop the management tools for improving the effectiveness of Agricultural extension Services.
- To organize need based trainings for developing skills of all extension functionaries.

Academic Committee:

The Academic Committee consists of the following members:

1. The Director SAMETI : Chairman
2. The Representatives from Agriculture, Horticulture, Animal Husbandry and Fisheries Department not below the rank of Joint Director.
3. Three Faculty members of SAMETI nominated by the Director, SAMETI.
4. Principal , EEI , ANGRAU

Every meeting of the academic committee shall be presided by the Chairman and in his absence the academic committee will elect a Chairman for the specific meeting.

Five members of the academic committee shall constitute the quorum.

Areas of Training:

SAMETI has been organizing different types of training programmes viz

- **Technical**

These trainings are meant for Departmental officers exclusively. During the year 7 trainings are organized on Water Management, Integrated Crop Management, Quality Control and on Soil Health management etc. covering 123 officers from all the districts.

- **Managerial**

These trainings are organized for Agricultural & Allied Departmental officers on Office Management, Gender issues & other managerial skills. During the year 3 trainings are organized covering 40 officers.

- **Off campus training programmes**

These trainings are organized for Agricultural & Allied Departmental officers in collaboration with EEI, MANAGE, Rajendranagar, Hyderabad. During the year 2 trainings are organized covering 49 officers.

- **Other trainings of the Department**

State level refreshing training cum workshop on **polambadi** has been organized for Master Trainers & Technical Assistants of JDA's office from all the districts covering 26 officers.

SAMETI has been promoting the trainings based on the needs of the extension functionaries, feedback from the participants, suggestions from FTC's & suggestions of the faculty. The trainings are designed based on, need based analysis at field level.

Training programmes on Organic Farming, Polambadi and sub schemes such as Pulses & Nutri Cereals production technology trainings pertaining to soft skills, office management etc. have also been included in the Annual Training Calendar. It was also decided that the number of participants of each technical / managerial training should be 26 i.e., 2 officers/district.

It is proposed to organize every year Technical trainings for Agricultural Department and Managerial trainings for officers of Agriculture & Allied Departments. In addition to the above, need based Orientation courses for AO's & Workshops/Brain Storming Sessions will also be organized pertaining to various schemes.

Technical Trainings (for Agriculture Department Extension officers):

- Water Management of crops with special focus on micro irrigation
- Integrated Crop Management (ICM) in Major crops
- Quality Control of inputs
- Genetically Modified crops – pros & cons
- Farm Mechanization for Profitable Agriculture
- Post Harvest Technology & Value Addition in Agricultural crops
- Climate Change & adaptations in cropping pattern
- Market intelligence for sustainable Agriculture
- Crop Production Technologies in rainfed Agriculture
- Soil Health Management for Sustainability
- Management practices for dryland Agriculture
- Extension Strategies for promotion of organic farming / ZBNF
- Organic Farming & Role of Bio-Inputs in Agriculture
- Capacity Building of the Department Officers
- Seed Production Technology of Major Crops
- Crop Production Technologies in Rain-fed Agriculture
- Contingency Planning in Crop Insurance
- Bio-Diversity in Agriculture & Allied Sectors

Managerial Trainings (for Agricultural & line Departments Extension Officers):

- Work Ethics for Extension Functionaries
- E - extension Skills for better management
- Office Administration & Accounts
- Soft skills for personality development
- Managerial Skills for Extension Personnel
- Service matters & Audit
- Communication Skills & Conflict Management Skills for extension professionals
- Documentation skills for field functionaries
- Importance of ICT's for faster information in Agricultural development
- Gender Budgeting & Gender Mainstreaming in Agriculture & allied sectors
- Leadership & team building for better extension
- Time & stress management skills for extension functionaries
- Market-Led Extension
- Promotion of Post Harvest Technologies & Value Addition in Agriculture & Allied Sectors
- Public Private Partnership in Changing Agricultural Scenario

Collaborative workshops/ trainings are also being organized by SAMETI with Commissionerate of Agriculture, AP, Guntur, MANAGE and EEI, Rajendranagar, Hyderabad.

Trainings organized during the year 2014-15 :

Immediately after bifurcation, budget during the year 2014-15 as not allocated under training component.

I. THE FOLLOWING SCHEMES IMPLEMENTED BY UTILIZING GOI FUNDS :-

1. PGDAEM:- (Post Graduate Diploma in Agricultural Extension Management)

SAMETI as Nodal Agency implementing one year **Post Graduate Diploma in Agricultural Extension Management (PGDAEM)** course through distance learning mode in collaboration with MANAGE, Hyderabad. This course was launched by MANAGE, with the following objectives.

- To enhance the techno - managerial competence of extension functionaries.
- To acquaint the extension functionaries on the latest developments in the field of Agricultural extension.
- To equip the extension functionaries with latest tools and techniques for participatory decision making.
- To develop an insight into various extension models to enrich the agri-value chain.

For the year 2014-15 No. of candidates pertaining to the Department of Agriculture & allied sectors have registered and the course was completed. The details are given below :-

| S. No. | Year | No. of batches | Total No. of Persons passed under PGDAEM |
|--------|---------|----------------|--|
| 1 | 2014-15 | 1 | 22 |

2. DAESI:- (Diploma in Agriculture Extension Services for input dealers)

- SAMETI as Nodal Agency implementing one year **Diploma in Agriculture Extension Services for input dealers (DAESI)** through MANAGE, Hyderabad.
- The course fee for the said Diploma Course is Rs.20,000/-(Rupees Twenty Thousand Only) out of which Rs.10,000 from the input dealers and rest of the Rs.10,000/- is given by Government of India through MANAGE and then to SAMETI and course fee for self finance is Rs.20,000/- (i.e total amount) from input dealers only.
- At State Level, SAMETI as Nodal implementing Agency and overall supervision by the Director SAMETI & at district level Project Directors ATMA.
- SAMETI will release funds to the Nodal Training Institute(NTI) in installments. A separate bank account will be opened on the name of Director, SAMETI for this programme, in which amounts collected (as fees) from input dealers will be deposited and also amount released from MANAGE will also be deposited.

- A total number of batches and input dealers trained under DAESI programmes for the year **2014-15**. The details are given below :-

| S. No. | Year | Total No. of batches | Total No. of Persons trained |
|---------------|-------------|-----------------------------|-------------------------------------|
| 1 | 2014-15 | 4 | 151 |

SAMETI has been identified as nodal agency for routing of ATMA funds to PD ATMA in the districts and for providing necessary HRD support to ATMA officials.

Scheme Accounts pertains to NFSM, RKVY, AGRISNET, NRM, WTO, Soil Health Scheme & FM etc. of PD account were maintained at SAMETI.

ANDHRA PRADESH WATER SECTOR IMPROVEMENT PROJECT
(APWSIP)
(Nagarjuna Sagar Project Modernization Scheme)
Irrigated Agriculture Intensification and Diversification (IAID)

Andhra Pradesh Water Sector Improvement Project (APWSIP) is aimed at modernization of Nagarjuna Sagar project with an outlay of about Rs. 4444.41/- crores. The duration of the project is 6 years starting from 10th September 2010 to July 31st 2016.

Objective of the project:

The project aims to provide assured supply of water with equitable distribution through strengthening of Water Users Associations (WUAs) and also to provide farmers with the necessary tools to maximize the production of water resources.

The Project supports the following Components:

Component A: Improving irrigation service delivery and management in NSP

Component B: Irrigated Agriculture Intensification and Diversification.

Component C: Water Sector Institutional Restructuring and Capacity Building.

Component D: Project Management.

The components A, C & D are monitored by Irrigation and CAD Dept.

Component B - Irrigated Agriculture Intensification and Diversification (IAID):

The main objective of IAID component is to increase farm profitability by increasing the production and returns on the produce of Irrigated Agriculture, Horticulture, Animal Husbandry, Fisheries and other related activities

The following are the Sub Components of IAID (Component B) and the total allocation for the project period.

| | |
|-------------------------------|------------------------|
| B1 - Agriculture(Field Crops) | Rs.47.37 crores |
| B2 – Horticulture | Rs.12.91 crores |
| B3 - Livestock Development | Rs.18.34 crores |
| B5 - Adaptive Research | Rs. 5.39 crores |
| Total | Rs.84.01 crores |

Sub Component B1-Agriculture:

Agricultural activities under the project are planned to improve water user efficiency (WUE), increase productivity, cropping intensity and crop diversification in the NSS command through the following major interventions.

Implementation of Action Plan during the year 2014-15

To accomplish the Project objectives of enhancing crop and water productivity, crop diversification and capacity building of WUA farmers and thereby increase incomes of farmers the following technological interventions have been initiated in the command area of 5 NSP districts by organizing Demonstrations on:

1. Organisation of Crop Technology Demonstrations under APWSIP:

Demonstrations are one of the most effective tools for dissemination of technology to the farmers. Under Irrigated Agriculture Intensification and Diversification (IAID) the following crop oriented ICM package of practices including IPM, INM and Water Management will be demonstrated in the farmers' holdings in the NSP districts during the project period.

- Integrated Crop Management Demonstrations (ICM)
- Integrated Plant Nutrient Management Demonstrations (INM)
- Integrated Pest Management Demonstrations (IPM)
- Crop Diversification Demonstrations
- Crop Intensification Demonstrations
- Demonstrations on Efficient Water Management

The demonstrations will be organized during Kharif and Rabi. The MAOs and Agriculture Specialist will extend necessary technical guidance to the Project Program Promoters (PPPs) who are appointed under the project at mandal level in organizing the demonstrations

i. Integrated Crop Management Demonstrations (ICM) on Paddy:

The following technological interventions are demonstrated in these demonstrations:

- Promoting SMSRI through Mechanized transplanter & Efficient Water Use
- Promoting SMSRI through Drum Seeder
- Promoting Direct Seeding of paddy
- Promoting Integrated Nutrient Management (INM)

Demonstration organized during 2014-15

| S.No | District | No.of Demos Organised |
|--------------|----------|-----------------------|
| 1 | Guntur | 326 |
| 2 | Krishna | 930 |
| 3 | Prakasam | 680 |
| Total | | 1936 |

ii. Demonstrations on Integrated Crop Management (ICM) Cotton:

- Integrated Crop Management (ICM) by reducing use of chemical pesticides and promoting bio agents for sucking pest management
- Promoting use of Micro nutrients like zinc, magnesium and boron

Demonstration organized during 2014-15

| S. No. | District | No.of Demos Organised |
|--------|----------|-----------------------|
| 1 | Guntur | 1216 |
| 2 | Krishna | 2000 |
| 3 | Prakasam | 1152 |
| Total | | 4368 |

iii. Crop Diversification:

For using the limited water available during the Rabi season more efficiently, alternate I.D crops like maize, jowar and pulses were promoted in place of paddy and they have given very good results like:

- The net income in these crops was higher compared to paddy
- With water required for 1 acre of paddy 2 to 2.5 acres of I.D.crops could be grown
- With Zero tillage in maize the cost of cultivation could be minimized to an extent of Rs.2000/- to 2500/- per acre.

Demonstration organized during 2014-15

| S. No. | District | No. of Demos Organised |
|--------|----------|------------------------|
| 1 | Guntur | 1602 |
| 2 | Krishna | 1975 |
| 3 | Prakasam | 1220 |
| Total | | 4797 |

iv. Crop Intensification Demonstrations:

The present cropping intensity in the districts of Guntur, Prakasam, Nalgonda, Khammam and Krishna is 1.31, 1.05, 1.23, 1.13 and 1.55 respectively (2011-12). The cropping intensity in these districts can be enhanced by judicious use of water during kharif season and by raising a second/third ID crop under the project by providing limited number of irrigations for crops like maize, jowar and pulses. These demonstrations will be conducted to show the benefits of double and triple cropping. The demonstrations will also cover aspects related to making the best use of limited water supplies due to low rainfall and delays in rehabilitation of canal systems.

v. Demonstrations on Efficient Water Management:

In the command areas due to copious water supply there is tendency of using excess water for the crops without knowing the deleterious effect of excess moisture in the root zone. Hence to demonstrate the benefits of optimum water use for the crops one WUA is selected in each district and rotational irrigation will be practiced in the total area of the WUA.
